BEFORE THE HIMACHAL PRADESH ELECTRICITY REGULATORY COMMISSION, SHIMLA

Filing No. 211 of 2024

IN THE MATTER OF

FILING OF MYT PETITION FOR APPROVAL OF CAPITAL COST AND DETERMINATION OF TARIFF FOR 4TH CONTROL PERIOD FROM COD TO FY 2023-24 FOR 220/132 kV, 77/102/128 MVA GIS SUB-STATION (ASSET-1) AND 220/33 kV, 80/100 MVA ADDITIONAL TRANSFORMER (ASSET-2) AT GIS SUB-STATION, CHAROR, KULLU UNDER THE HIMACHAL PRADESH ELECTRICITY REGULATORY COMMISSION (MULTI YEAR TARIFF) REGULATIONS AND ITS AMENDMENTS THEREOF AND UNDER SECTION 62 READ WITH SECTION 86 OF THE ELECTRICITY ACT 2003.

AND IN THE MATTER OF

HIMACHAL PRADESH POWER TRANSMISSION CORPORATION LIMITED, HIMFED BHAWAN, PANJARI, SHIMLA-171005.
PETITIONER

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General Manager (C&D)
HPPTCL, Shimla-5

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DATED: 24/10/2025
SHIMLA

FILED BY
GM (C&D)
HPPTCL, Shimla-171005

BEFORE THE HIMACHAL PRADESH ELECTRICITY REGULATORY COMMISSION, SHIMLA

Filing No. 211 of 2024

IN THE MATTER OF

FILING OF MYT PETITION FOR APPROVAL OF CAPITAL COST AND DETERMINATION OF TARIFF FOR 4TH CONTROL PERIOD FROM COD TO FY 2023-24 FOR 220/132 kV, 77/102/128 MVA GIS SUB-STATION (ASSET-1) AND 220/33 kV, 80/100 MVA ADDITIONAL TRANSFORMER (ASSET-2) AT GIS SUB-STATION, CHAROR, KULLU UNDER THE HIMACHAL PRADESH ELECTRICITY REGULATORY COMMISSION (MULTI YEAR TARIFF) REGULATIONS AND ITS AMENDMENTS THEREOF AND UNDER SECTION 62 READ WITH SECTION 86 OF THE ELECTRICITY ACT 2003.

AND IN THE MATTER OF

HIMACHAL PRADESH POWER TRANSMISSION CORPORATION LIMITED, HIMFED BHAWAN, PANJARI, BELOW OLD MLA QUARTER, SHIMLA -171005

PETITIONER

Reply on behalf on the Petitioner to the Queries raised by the Hon'ble Commission vide letter dated 23.08.2025.

Respectfully Showeth:

1. That the Petitioner has filed the above titled Petition for approval of Capital Cost and determination of tariff for 4th Control Period from COD to FY 2023-24 for 220/132 kV, 77/102/128 MVA GIS Sub-station (Asset-1) and 220/33 kV, 80/100 MVA Additional Transformer (Asset-2) at GIS Sub-station, Charor, Kullu.).
2. That the Petitioner do hereby humbly submits the point wise reply to the data gaps raised by the Hon'ble Commission vide letter dated 23.08.2025 are as under:

ATTESTED
Vijay Kumar Sekhri
Advocate cum Notary Public
Yash Bhawan, Vikas Nagar
Shimla (H.P.)

General Manager (C&D)

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Queries common to Asset-1 and Asset-2

1. The HPPTCL has submitted the provisional certificates for capital cost of Asset -1 and Asset-2 as Annexure-7 & Annexure-8 to the Petition and as Annexure-52 & Annexure-62 to its reply and has revised the capital cost of Asset-I and Asset-2 as follows:

	Asset -1 (Rs Cr.)	Asset-2 (Rs Cr.)
As per the Petition	Till COD: 83.70 COD to 31.03.24: 2.16	Till COD: 41.46 COD to 31.03.24: 0.04
As per the Reply	Till Col): 83.84 COD to 31.03.24: 2.12	Till COD: 43.01 COD to 31.03.24: (0.03)

Further, it has been observed that the original award cost has also been revised from Rs 68.37 Cr. to Rs 67.49 Cr. vide issuance of amendments (9 nos.) before and after COD for Asset-1 and from Rs 35.96 Cr. to Rs 35.07 Cr., vide issuance of amendments (5 Nos.) before and after COD, for Asset-2.

In this context, please submit an affidavit on the final cost to be considered for prudence check of Capital expenditure along with the certificate from auditor for expenditure (Capital Cost) along with debt/ Equity breakup of the assets till COD and as on 31st March, 2024.

Reply: It is submitted that final cost of Asset-1 upto COD is Rs 90.49 Crores (= Rs 83.85 Crores plus Rs 6.64 Crores deposited in Hon'ble High Court) (**Annexure-1A**) and final cost of Asset-2 upto COD is Rs 43.02 Crores(**Annexure-1B**). Further, final cost of Asset-1 upto 31.03.2024 is Rs 92.61 Crores (= Rs 83.85 Crores plus Rs 6.64 Crores deposited in Hon'ble High Court plus Rs 2.12 Crores) (**Annexure-1C**) and final cost of Asset-2 upto 31.03.2024 is Rs 39.56 Crores (=43.02Crores + (-)3.46 Crores) (**Annexure-1D**).

In addition to above, it is submitted that expenditure towards said assets have also incurred during FY 2024-25 & FY 2025-26. However, as Annual Accounts for FY 2024-25 are yet to be audited by Statutory Auditor and FY 2025-26 is ongoing, HPPTCL seeks liberty from Hon'ble Commission to submit the Audited Cost Certificates at later stage.

ATTESTED
Vijay Kumar Sharma
Advocate Notary Public
Distt. Shimla (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

Detail of expenditure of Asset-1 & Asset-2 as on 31.03.2025 & up to date is as under: -

Description of Asset	Expenditure as on 31.03.2025(in Rs Crores)	Expenditure as on date (in Rs Crores)
Asset-1	92.61+1.36	92.61+1.36+0.07
Asset-2	39.56+0.17	39.56+0.17+NIL

Further, it is submitted that land for construction of Charor Substation was acquired by HPPTCL as per orders of LAO, after issuance of Notification under Land Acquisition Act 1894 at the time of initiation of acquisition proceedings. Against said payments released by HPPTCL, some land owners moved to Collector L.A. (ADJ Court) under Section 64 of new Act i.e. "The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013" and HPPTCL was directed to make the payment of additional compensation of 75% under provisions of new Act. Said Orders of ADJ Court were challenged before Hon'ble High Court and presently said matters are pending before Hon'ble High Court. However, payment of Rs 6,63,66,856.00 was released by HPPTCL pursuant to Hon'ble High Court directions and said amount was booked into Books of HPPTCL against G/L (1090025) under Advance Deposit against Court Case. Due to inadvertence, said amount could not booked into expenditure details of Charor Substation upto FY 2023-24 which otherwise is lying in the vendor account of the Registrar General (in SAP under G/L (1090025) under Advance Deposit against Court Case). Copy of Auditor Certificate certifying booking of said amount of Rs 6.64 Crores under vendor account of the Registrar General is attached as **Annexure-1E**. As said expenditure pertains to Asset-1 (Charor 220/132 kV Substation) only, it is requested before Hon'ble Commission to allow and approve said expenditure which has now been included in final cost of Asset-1 upto COD as Rs 90.49 Crores.

ATTESTED
Vijay Kumar Sakhera
Advocate cum Notary Public
Yash Bhawan, Vikasnagar
Shimla (H.P.)

2. **Please submit the supporting documents related to bid process carried out for award of supply and erection works, hiring of consultants for soil investigation, testing, design etc. and any other works/service for Asset-1 and Asset-2.**

General Manager (C&D)
HPPTCL, Shimla-5

Reply: Petitioner humbly submits that detail of Awards placed in respect of construction of Asset-1 and Asset-2 alongwith related documents are as under: -

S. No.	Description	Remarks
A.	**Asset-1**	
1.	Notification of Award dated 19.03.2018 i.r.o. design, engineering, manufacture, fabrication, testing at manufacturers works, transportation to site, insurance, loading/unloading, storage, erection, testing and commissioning of 132/220kV Charor Substation	Technical Bid Evaluation Report alongwith Financial Bid Evaluation Report in support of Bid Process is enclosed as **Annexure-2A**
2.	Award letter dated 11.10.2019 for carrying out Ambient Air Pollution and Noise Pollution testing in respect of various assets including Asset-1	Letter dated 11.10.2019 in respect of Award placed in favour of M/s Interstellar Testing Centre &

ATTESTED
Vijay Kumar Saklani
Advocate cum Notary Public
Yash Bhawan, Vikas Nagar
Shimla (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

3.	Award letter dated 11.10.2019 for carrying out Surface and Ground Water Quality and Soil test in respect of various assets including Asset-1	M/s Evapo Tech S-C Model Town Patiala are enclosed as **Annexure-2B.** Noting approval in respect of Award placed in favour of M/s Interstellar Testing Centre & M/s Evapo Tech S-C Model Town Patiala are enclosed as **Annexure-2C.**
4.	Award to Sh. Yashpal Acharya for providing and fixing of Doors Windows, Cupboards and associated Electrical works at Rest Camp of 132/220kV GIS Substation Charor	Award placed in favour of Sh. Yashpal Acharya and M/s Ranjeet Thakur are enclosed as **Annexure-2D & Annexure-2E** respectively. Other supporting document in said regard are enclosed as **Annexure-2F.**
	Award placed in favour of M/s Ranjeet Thakur for completion of balance works (after termination of Award placed on M/s Yashpal due to non-responsiveness and delayed execution of work) for providing and fixing of Doors Windows, Cupboards and associated Electrical works at Rest Camp of 132/220kV GIS Substation Charor	

ATTESTED
Vijay Kumar Saklani
Advocate cum Notary Public
Vash Bhawan, Vikas Nagar
Shimla (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

B.	Asset-2	
1.	Notification of Award dated 08.03.2019 i.r.o. design, engineering, manufacture, fabrication, testing at manufacturers works, transportation to site, insurance, storage, erection, testing and commissioning of Additional 33/220kV Transformer at Charor Substation	Technical Bid Evaluation Report alongwith Financial Bid Evaluation Report in support of Bid Process is enclosed as **Annexure-2G**.

3. **Please submit the work/activity completion schedule (planned Vs actual) for Asset-1 and Asset-2.**

   Reply: The work/activity competition schedule (planned Vs actual) for Asset-1 and Asset-2 are enclosed as **Annexure-3A** & **Annexure-3B**.

4. **It is observed that the HPPTCL has issued amendments for Asset-1 and Asset-2 after COD i.e. 23.06.2023 and has claimed the expenditure incurred as Additional capitalization by revising original project cost. In this context, please substantiate that the works fall within the provisions of Regulation 16 (Additional Capitalization) of HPERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2011, as amended from time to time.**

   Reply: The Petitioner humbly submits that Regulation 16 of HPERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2011, provides as under:

   "The capital expenditure incurred or projected to be incurred, on the following counts within the original scope of work, after the date of commercial operation and up to the cut-off date may be admitted by the Commission, subject to prudence check-

   (a) Undischarged liabilities

   (b) works deferred for execution;

ATTESTED
Vijay Kumar Saklani
Advocate cum Notary
Yash Bhawan, Vikas Nagar
Shimla (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

(c) procurement of initial capital spares within the original scope of work, subject to the provisions of regulation 15;

(d) liabilities to meet award of arbitration or for compliance of the order or decree of a court; and

(e) change in law:

Provided that the details of works included in the original scope of work, along with estimates of expenditure, undischarged liabilities and the works deferred for execution, shall be submitted along with the application for determination of tariff"

In regard of above provisions of HPERC (Terms and Conditions for Determination of Transmission Tariff) Regulations 2011, detail of expenditures booked during period from COD to FY 2024-25 alongwith their nature are as under: -

Financial Year	Description of Invoice	Amount	Remarks
	Asset-1		
FY 2023-24	29th Civil Bill	1,07,84,078.00	Payments released are pending liabilities in nature
	30th Civil Bill	1,05,60,227.00	
	Stone recovery amounts	(93,294.00)	
	SAP Entry Sheet	(6,49,000.00)	
	TOTAL	**2,06,02,011.00**	
FY 2024-25	31st Civil Bill	52,96,205.00	Payments released are pending liabilities in nature
	Recovery of excess quantity	(3,95,884.00)	
	Civil Hold quantity	45,84,429.00	
	Differential Rate Civil	45,10,677.00	
	Recovery	(12,21,978.00)	
	34th Erection Bill	9,38,180.00	
	Recovery of pending work	(1,00,000.00)	
	Stone Recovery	(35,902.00)	
	Stone Recovery	(8,489.00)	
	TOTAL	**1,35,67,238.00**	
	Asset-2		
FY 2023-24	12th RA Erection Bill	1,27,350.00	Payments released are pending liabilities in nature
	16th RA Supply Bill	2,76,542.00	
	TOTAL	**4,03,892.00**	

ATTESTED
Vijay Kumar Saklani
Advocate cum Notary Public
Yash Bhawan, Vikas Nagar
Bounds (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

FY 2024-25	1st R.A. Bill(Training)	5,31,000.00	Payments released are pending liabilities in nature
	13th R.A. Bill(Erection)	11,32,612.00	
	TOTAL	**16,63,612.00**	

In regard of Addl. Capital Expenditure for Asset-1 indicated above, it is submitted that as on COD payment released to Contractor towards Supplies & erection work amounts to Rs 63.69 Crores and after COD upto 31.03.2024, payment of Rs 2.06 Crores (as per Audited Cost Certificates) was released. Further, after 01.04.2024 upto 31.03.2025 and during FY 2025-26, payment of Rs 1.36 Crores & Rs 0.07 Crores respectively has been booked towards Supplies & Erection portion making total amount released towards Supplies & erection work up to date as Rs 67.18 Crores.

However, final Award Cost towards construction of Asset-1 is Rs 67.49 Crores (**Annexure-4A**) and differential amount of Rs 0.31 Crores arising on account of difference of final Award Cost w.r.t. payment released towards Supplies & Erection will be settled upon short closure of project in due course of time.

In regard of Addl. Capital Expenditure for Asset-2 indicated above, it is submitted that as on COD & during period from COD to 31.03.2024 payment released to Contractor towards Supplies & erection work amounts to Rs 34.57 Crores & Rs 0.04 Crores respectively. Further, after 01.04.2024 upto date, payment of Rs 0.17 Crores has been booked towards Supplies & Erection portion making total released towards Supplies & erection work as Rs 34.78 Crores (**Annexure-4B**).

In the matter of final awarded cost, it is intimated that same amounts to Rs 34.76 Crores after issuance of Amendment No. 6 dated 25.09.2025 thereby making final awarded cost and payments released comparable.

As there is no excess billing and payments released are towards work awarded to Contractor, it is requested before Commission to allow and approve payments released post COD for both the Assets.

ATTESTED
Vijay Kumar Thakur
Advocate cum Notary Public
Yash Bhawan, Vikas Nagar
Shimla (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

5. **The submitted Excel file, carrying IDC calculations, contains hard punched numbers. Please submit proper formula linked excel sheet.**

Reply: The year wise IDC calculation in excel with linked formula is attached as **Annexure-5**.

6. **In reply to query No. 2, the following has been submitted:**

".....under Long Term Access Agreement signed between HPPTCL and was Everest Power Pvt. Ltd., Long term access has been granted for quantum of 86MW till 12.07.2024 and for quantum of 80MW w.e.f 13.07.2024 to 05.12.2044....

..... Out of the total Hydel capacity of 188.9 MI'" SHEPs of capacity 32 MW have already been commissioned and are being evacuated or 33kV through HPSEBL distribution network. Out of 32MW, Generators of capacity 23MW have tied up PPA with HPSEBL and rest of the capacity amounting to 9 MW are evacuating their power under open access. ***Therefore, beneficiaries of Charor Substation along with Addl. Charor are M/S Everest Power Pvt. Ltd. (on account of LTA Agreement between HPPTCL M/S EPPL), HPSEBL and Sandhpa Hydro Power Protects Limited (currently evacuating its power under temporary arrangement on HPSEBL 33k V System)*** *... .....*

*... .....**For the period upto 31st March 2024, the ARR shall be recovered from M/s EPPL being the sole beneficiary till March, 2024**"*

In this context, please justify full recovery of ARR from M/S EPPL till March, 2024 despite having TSA dated 19.03.2021 with M/S Sandhya Hydro Power Projects Balargha(P) Limited (COD 2018) and majority of plants (23 MW) evacuating power through HPSEBL network getting commissioned even before the said Substation.

Reply: With regard to above Query, it is humbly submitted that although M/s Sandhya Hydro Power Projects Balargha(P) Limited is beneficiary of said system as envisaged in DPR, however same is currently evacuating its power under temporary arrangement on HPSEBL 33kV System under Short term arrangement and in addition to DISCOM EHV system is utilizing Intrastate system of HPPTCL which does not include the Asset-1 & Asset-2 in question. With regard to recovery of ARR from said Generator, it is submitted that no TSA/Long Term Agreement has been signed with M/s Sandhya Hydro Power Projects Balargha(P)

ATTESTED
Vijay Kumar Saklani
Advocate cum Notary Public
Yash Bhavan, Vikas Nagar
Shimla (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

Limited and only Connection Agreement dated 19.03.2025 has been signed between HPPTCL and M/s Sandhya Hydro Power Projects Balargha (P) Limited with permanent connectivity planned through LILO (one circuit) of 132kV Barsaini-Charor D/C Transmission line. In view of above, under present scenario M/s Sandhya Hydro Power Projects Balargha (P) Limited cannot be levied with charges corresponding to Long Term beneficiaries upto 31.03.2024.

With regard to HPSEBL being beneficiary of said system, it is submitted that Generators of capacity 23MW have tied up PPA with HPSEBL and as Supplementary Transmission Service Agreement has been signed with HPSEBL for subject assets i.e. 220/132/33kV Charor Substation, 132/33kV Barsaini Substation, 220kV D/C Charor-Banala Transmission line & 132kV D/C Barsaini-Charor line on dated 13.08.2025(copy enclosed as **Annexure-6**), capacities of generators having PPA with DISCOM will be embedded in the capacity of HPSEBL for 5th Control Period (i.e. FY 2024-25 to FY 2028-29) which is further dynamic in nature. In case of coming up of new generation, HPSEBL will be treated as beneficiary if Generator has executed PPA with DISCOM whereas in case of Generator opting for open access, same will be treated as separate beneficiary. As & when the 33/132kV Barsaini Substation & 132kV Barsaini-Charor line is commissioned during 5th MYT Period, the recovery of Transmission Charges for these assets w.e.f. their respective CODs will be made from all the beneficiaries as per mechanism which has been finalized by Hon'ble Commission at Para No. 6.10.3 of MYT Order dated 22.01.2025 for 5th Control Period.

Therefore, for the period upto 31.03.2024, the ARR shall be recovered from M/s EPPL only, being the sole beneficiary of the system and on account of fact that LTA Agreement has been signed between HPPTCL & M/s EPPL on 30.12.2022 for evacuation of power of Malana-II HEP and on account of fact as stated in Paras above. Necessary to mention that at present M/s Sandhya Hydro Power Projects Balargha(P) Limited and other 23MW SHEPs are evacuating power through 33kV Bahraini-MPCL line & 33kV MPCL-Bajaura line because 132kV Charor-Barsaini

ATTESTED
Vijay Kumar Sa[illegible]
Advocate cum Notary Public
Yash Bhawan, Vikas Nagar
Shimla (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

Transmission line alongwith 132/33kV Barsaini Substation are yet to be commissioned.

7. **It has been submitted at Para 5.14.2 of the Petition that HPSEBL shall be the beneficiary of subject assets only after commissioning of 132/33kV Barsaini Substation & 132kV D/C Barsaini to Charor line. Further, at reply to query No. 4, it has been submitted that out of the total Hydel capacity of 188.9 MW, SHEPs of capacity 32 MW have already been commissioned and are being evacuated on 33kV through HPSEBL distribution network. Further, out of 32MW, Generators of capacity 23MW have tied up PPA with HPSEBL and upon signing of TSA with HPSEBL for subject assets, capacities of generators having PPA with DISCOM will be embedded in capacity of HPSEBL.**

In this context, please submit the following:

a. **Status of 132/33kV Barsaini Substation & 132kV D/C Barsaini to Charor line and its expected COD.**

b. **Status of Supplementary Transmission Service Agreement (TSA) with HPSEBL.**

c. **How HPPTCL will recover ARR from the commissioned SHEPs having cumulative capacity of 23 MW till the time 132/33kV Barsaini Substation & 132kV D/C Barsaini to Charor line is not commissioned and TSA with HPSEBL is not executed.**

d. **Details of TSA, COD and Evacuation mode of below mentioned SHEPs:**

ATTESTED
Vijay Kumar Sakleni
Advocate cum Notary Public
Yash Bhawan, Vikas Nagar
Shimla (H.P.)

Sr.	Name of Project	Capacity (MW) as per DPR	Actual COD/ Expected COD	TSA Status	Evacuation Mode (Embedded in HPSEBL/ HPPTCL Charor)
1.	Balargha	9.00	Unit-I, II & III 22.01.2018	Executed on 19.03.2021	HPPTCL Charor
2.	Toss	10.00	Unit-I 26.12.2008 Unit-II 11.08.2009		Embedded in HPSEBL
3.	Chakshi	2.00	22.02.2012		Embedded in HPSEBL
4.	Jirah	4.00	31.01.2011		Embedded in HPSEBL
5.	Bramganga	5.00	02.04.2008		Embedded in HPSEBL

General Manager (C&D)
HPPTCL, Shimla-5

Sr.	Name of Project	Capacity (MW) as per DPR	Actual COD/ Expected COD	TSA Status	Evacuation Mode (Embedded in HPSEBL/ HPPTCL Charor)
6.	Raskat	0.80	28.08.2001		Embedded in HPSEBL
7.	Thuchaning	1.00	26.06.2024		Embedded in HPSEBL
8.	Sarsadi	9.60			
9.	Parvati	14.00			
10.	Parbati-ll	10.00			
11.	Sarsadi-ll	9.00			
12.	Shat Parvati	5.00			
13.	Jigral	5.00			
14.	Chakshi - 11	3.00			
15.	Shilla	1.80			
16.	Barthi	1.00			
17.	Jirah	3.50			
18.	Tauhak	4.50			
19.	Liptung Khor	3.00			
20.	Piachkani	0.60			
21.	Bakar Kiara	1.10			
22.	Gaffhi-ll	1.50			
23.	Garthi-lll	3.00			
24.	Garthi	1.00			
25.	Ghathi	0.80			
26.	Upper Jirah	1.50			
27.	Kungti	1.00			
28.	Nazonga	0.90			
29.	Jari Hydel	5.00			
30.	Bramganga Top	5.00			
31.	Jai	1.00			
32.	Manikaran	4.00			
33.	Raskat-ll	0.40			
34.	Manikaran Choj	2.50			
35.	Malana Top	5.00			
36.	Malana-lll	30.00			
37.	Malana-lv	10.00			
38.	Chharor	0.80			
39.	Chharor	3.00			
40.	Sharni	9.60			
	TOTAL	188.90			

ATTESTED
Vijay Kumar Saklani
Advocate cum Notary Public
Yash Bhawan, Vikas Nagar
Shimla (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

Reply: With regard to above Query, pointwise reply is as under:-

a) As on date, the construction work of the 132 kV D/C Barsaini–Charor transmission line is approximately 80% complete and 132/33 kV Barsaini Substation is approximately 70% complete. The expected Commercial Operation Date (COD) for both assets is targeted for 30.06.2026.

b. Petitioner submits that Supplementary Transmission Service Agreement (TSA) with HPSEBL for utilization of 220/132/33kV Charor Substation, 132/33kV Barsaini Substation, 220kV D/C Charor-Banala Transmission line and 132kV D/C Barsaini-Charor Transmission line has been signed with HPSEBL on dated 13.08.2025 and copy of same is enclosed as **Annexure-7**.

c. With regard to above, it is submitted that HPPTCL will not recover the ARR from the commissioned SHEP's having cumulative capacity of 23MW till 132/33kV Barsaini Substation & 132kV D/C Charor-Barsaini line is commissioned. However, after 01.04.2024 as & when 132/33kV Barsaini Substation & 132kV D/C Barsaini-Charor Transmission line is commissioned, approved ARR of subject assets will be added into consolidated pool and total ARR as worked out in consolidated pool inclusive of subject assets will be recovered from intrastate beneficiaries in line with Clause 45 of HPERC (Terms and Conditions for determination of Transmission Tariff) Regulations,2023. The capacity of 23MW shall be added to the contracted capacity of HPSEBL.

d. The details of TSA, COD and Evacuation mode of below mentioned SHEPs is as under: -

Sr.	Name of Project	Capacity (MW) as per DPR	Actual COD/ Expected	TSA Status	Evacuation Mode (Embedded in HPSEBL/ HPPTCL Charor)
1.	Balargha	9.00	Actual COD of Unit-I, II & III is 22.01.2018	Connection Agreement executed on 19.03.2021	As per TEC dated 09.08.2012, IPP shall interface its project with 33/132kV Barsaini Substation by constructing 33kV S/C line on double circuit structure from Balargha SHP to Barsaini. However, currently IPP is evacuating its power under temporary arrangement on HPSEBL 33kV System

ATTESTED
Vijay Kumar Saklani
Advocate cum Notary Public
Distt. Shimla (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

Sr.	Name of Project	Capacity (MW) as per DPR	Actual COD/ Expected	TSA Status	Evacuation Mode (Embedded in HPSEBL/ HPPTCL Charor)
2.	Toss	10.00	Actual COD of Unit-I is 26.12.2008 & Unit-II is 11.08.2009	NIL	Currently, embedded in HPSEBL system. In 50th STU meeting held on 05.09.2022, it was decided that Toss HEP (10 MW) and Jirah HEP (4 MW) shall terminate their dedicated lines at 132/33kV substation Barsaini
3.	Chakshi	2.00	Actual COD is 22.02.2012	NIL	Embedded in HPSEBL
4.	Jirah	4.00	Actual COD is 31.01.2011	NIL	Embedded in HPSEBL
5.	Bramganga	5.00	Actual COD is 02.04.2008	NIL	Embedded in HPSEBL
6.	Raskat	0.80	Actual COD is 28.08.2021	NIL	Embedded in HPSEBL
7.	Thuchaning	1.00(said capacity was later on revised to 1.50MW)	Actual COD is 26.06.2024	NIL	Embedded in HPSEBL
8.	Sarsadi	9.60	Under clearance (NIL expected COD)	NIL	As per TEC dated 11.09.2014, the power of Sarsadi SHP (9.60 MW) shall be evacuated in joint mode with Sharni SHP (9.60 MW) by constructing/laying 33 kV joint dedicated line/Underground cable up to 33/132 kV substation at Sarsadi SHP switchyard (to be constructed by the IPPs) where both circuits of planned 132 kV Double Circuit Barsaini- Charor Transmission line of HPPTCL shall be solidly tapped with two feeder bays at T-point and two feeder bays at other end.
9.	Parvati	14.00	Project under	NIL	Not available with HPPTCL

ATTESTED
Vijay Kumar Sakla
Advocate cum Notary Public
Yash Bhawan, Vikas Nagar
Bhimla (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

Sr.	Name of Project	Capacity (MW) as per DPR	Actual COD/ Expected	TSA Status	Evacuation Mode (Embedded in HPSEBL/ HPPTCL Charor)
		(said capacity was later on revised to 12MW)	clearance stage (NIL expected COD)		
10.	Parbati-II	10.00 (800MW commissioned)		NIL	Power being evacuated through ISTS network
11.	Sarsadi-II	9.00	Project under clearance stage (NIL expected COD)		As per TEC dated 04.06.2010, the IPP shall interface their project at 132/33 kV Sub-Station at Bajaura in joint mode with other two SHPS namely Sarni SHEP (2.50 MW) and Sarsadi-I SHP (3.00 MW)
12.	Shat Parvati	5.00	Project under DPR stage (NIL expected COD)		
13.	Jigrai	5.00	Project under clearance stage (NIL expected COD)		As per TEC dated 20.12.2012 for evacuation of power the IPP shall interface its project with 33/132 kV Sub-station of HPPTCL at Barsaini by constructing 33 kV S/C transmission line on double circuit structures with 0.15 sq. in. "WOLF" conductor from power house switchyard to Barsaini sub station. In 50th STU meeting dated 05.09.2022, the connectivity arrangement of the IPPs i.e. Chakshi-II (3 MW), Barthi (1 MW), Jigrai (5 MW) and Garthi (1.25 MW) was discussed and it was agreed that IPPs shall evacuate their power by LILO of 33kV Barsaini to Malana switchyard line of HPSEBL. Thereafter, during meeting held on 03.07.2023 under the Chairmanship of Director

ATTESTED
Vijay Kumar Sakla
Advocate cum Notary Public
Yash Bhawan, Vikas Nagar
Shimla (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

Sr.	Name of Project	Capacity (MW) as per DPR	Actual COD/ Expected	TSA Status	Evacuation Mode (Embedded in HPSEBL/ HPPTCL Charor)
					(P&C), HPPTCL, the IPP confirmed that they shall construct 33kV dedicated line up to 33/11kV Barsaini substation of HPSEBL. However, HPSEBL intimated that the evacuation arrangement is feasibile subject to shifting of Toss (10 MW) & Jirah (4 MW) from interim arrangement i.e. 33/11kV Barsaini substation of HPSEBL to 132/33kV Barsaini substation of HPPTCL.
14.	Chakshi - II	3.00	Project under clearance stage (NIL expected COD)		As per TEC dated 17.12.2011, the IPP shall interface its project at proposed 33/132 kV sub station at Barsaini to be constructed by HPPTCL on 33 kV level, for evacuation of power in joint mode with Shilla (1.80 MW) and Berthi (1.00 MW) SHPs. In 50th STU meeting dated 05.09.2022, the connectivity arrangement of the IPPs i.e. Chakshi-II (3 MW), Barthi (1 MW), Jigrai (5 MW) and Garthi (1.25 MW) was discussed and it was agreed that IPPs shall evacuate their power by LILO of 33kV Barsaini to Malana switchyard line of HPSEBL. Thereafter, during meeting held on 03.07.2023 under the chairmanship of Director (P&C), HPPTCL, the IPP confirmed that they shall construct 33kV dedicated line up to 33/11kV Barsaini substation of HPSEBL. However, HPSEBL intimated that the evacuation arrangement is feasibile subject to shifting of Toss (10 MW) and Jirah (4 MW) from interim arrangement i.e. 33/11kV Barsaini substation of

ATTESTED
Vijay Kumar Saklani
Advocate cum Notary Public
Vakil Bhawan, Vikas Nagar
Shimla-171 011

General Manager (C&D)
HPPTCL, Shimla-5

Sr.	Name of Project	Capacity (MW) as per DPR	Actual COD/ Expected	TSA Status	Evacuation Mode (Embedded in HPSEBL/ HPPTCL Charor)
					HPSEBL to 132/33kV Barsaini substation of HPPTCL.
15.	Shilla	1.80	Project under clearance stage (NIL expected COD)		As per TEC dated 16.10.2009, power generated at Shilla (1.80 MW) SHP shall be injected into 33/132 kV proposed Sub-Station at Barsaini through 33 kV line in joint mode with Chakshi-II (3.00 MW) and Barthi (1 MW).
16.	Barthi	1.00	Project under clearance stage (NIL expected COD)		As per TEC dated 21.01.2010, power generated at Barthi (1 MW) SHEP shall be injected at 33/132 KV proposed Sub-station at Barsaini through 33 kV line in joint mode with Chakshi- II (3 MW). In 50th STU meeting dated 05.09.2022, the connectivity arrangement of the IPPs i.e. Chakshi-II (3 MW), Barthi (1 MW), Jigrai (5 MW) and Garthi (1.25 MW) was discussed and it was agreed that IPPs shall evacuate their power by LILO of 33kV Barsaini to Malana switchyard line of HPSEBL. Thereafter, during meeting held on 03.07.2023 under the Chairmanship of Director (P&C), HPPTCL, the IPP confirmed that they shall construct 33kV dedicated line up to 33/11kV Barsaini substation of HPSEBL. However, HPSEBL intimated that the evacuation arrangement is feasibile subject to shifting of Toss (10 MW) and Jirah (4 MW) from interim arrangement i.e. 33/11kV Barsaini substation of HPSEBL to 132/33kV Barsaini substation of HPPTCL.
17.	Jirah	3.50	Project cancelled		As per TEC dated 18.08.2011, for evacuation of power the IPP shall interface its project with 132/33 kV proposed Sub-

ATTESTED
Vijay Kumar Saklani
Advocate cum Notary Public
Yash Bhawan, Vikas Nagar
Shimla (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

Sr.	Name of Project	Capacity (MW) as per DPR	Actual COD/ Expected	TSA Status	Evacuation Mode (Embedded in HPSEBL/ HPPTCL Charor)
			(NIL expected COD)		Station at Barsaini to be built by HPPTCL in joint mode with down stream Jirah SHEP (4.00 MW) or through the joint evacuation system to be planned for that area by HPPTCL/HPSEBL.
18.	Tauhak	4.50 (capacity revised to 2 MW)	Project under construction (NIL expected COD)		As per TEC dated 10.12.2021, the power of Tauhak SHEP (2 MW) is to be evacuated through solid tap on 33kV D/C Line from 33/11kV substation Barsaini to 132/33kV substation Malana subject to the certain conditions. In 50th STU meeting dated 05.09.2022, it was discussed that the Tauhak SHEP shall evacuate power through the 33kV Transmission line of HPSEBL.
19.	Liptung Khor	3.00 (capacity revised to 1.40MW)	Project under DPR stage (NIL expected COD)		
20.	Piachkani	0.60	Project under DPR stage (NIL expected COD)		
21.	Bakar Kiara	1.10	Status not received from Him Urja		
22.	Garthi-II	1.50	Project under clearance stage (NIL expected COD)		As per TEC dated 21.08.2014, for evacuation of power the IPP shall interface their project at switchyard of Garthi I SHP by constructing 33kV S/C line of D/C structures for further evacuation of power in joint

ATTESTED
Vijay Kumar Saklani
Advocate cum Notary Public
Yadi Bhawan, Vikas Nagar
Shimla (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

Sr.	Name of Project	Capacity (MW) as per DPR	Actual COD/ Expected	TSA Status	Evacuation Mode (Embedded in HPSEBL/ HPPTCL Charor)
					mode with Garthi-I SHP at 33 kV level up to the planned 33/132 kV sub station at Barsaini by HPPTCL which shall be further connected with 132/220 kV substation at Charor.
23.	Garthi-III	3.00	Project under clearance stage (NIL expected COD)		As per TEC dated 11.12.2012, for evacuation of power the IPP shall interface their project with 33/132 kV sub station planned at Barsaini by HPPTCL, at 33 kV level through 33 kV S/C transmission line on Double circuit structures with ACSR 0.15 sq. in. " WOLF" conductor upto Barsaini Sub station in joint mode with Jigrai SHP (5.00 MW).
24.	Garthi	1.00 (capacity revised to 1.25MW)	Project under construction stage (NIL expected COD)		As per TEC dated 26.05.2018, for evacuation of power the IPP shall interface this project at 33 kV level up to 33/132 kV sub-station of HPPTCL at Barsaini. In 50th STU meeting dated 05.09.2022, the connectivity arrangement of the IPPs i.e. Chakshi-II (3 MW), Barthi (1 MW), Jigrai (5 MW) and Garthi (1.25 MW) was discussed and it was agreed that IPPs shall evacuate their power by LILO of 33kV Barsaini to Malana switchyard line of HPSEBL. Thereafter, the evacuation arrangement was reviewed in respect of Garthi SHEP (1.25 MW) and it was appraised by HPSEBL that the power of IPP can be evacuated at 33/11kV Barsaini substation by constructing 11kV dedicated transmission line from the power house site to 33/11kV Barsaini substation.
25.	Ghathi	0.80	Project under		For evacuation of power the IPP shall interface this project at 11

ATTESTED

Vijay Kumar Saklani
Advocate cum Notary Public
Yash Bhawan, Vikas Nagar
Shimla (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

Sr.	Name of Project	Capacity (MW) as per DPR	Actual COD/ Expected	TSA Status	Evacuation Mode (Embedded in HPSEBL/ HPPTCL Charor)
		(capacity revised to 0.90MW)	clearance stage (NIL expected COD)		kV Raskat- Barsaini feeder. The power shall be ultimately evacuated through 33/132 kV sub station of HPPTCL planned at Barsaini.
26.	Upper Jirah	1.50	Status of Project not received		Not available
27.	Kungti	1.00	Status of Project not received		Not available
28.	Nazonga	0.90	Project under construction(NIL expected COD)		As per TEC dated 16.05.2023, the power of Nazonga SHEP (0.90 MW) shall be evacuated through solid tap on 11 kV Jari-Barsaini feeder, emanating from 1x 1.6 + 1x2.5 MVA, 33/11 kV Barsaini Substation with appropriate protection arrangement.
29.	Jari Hydel	5.00	Status not received		Not available
30.	Bramganga Top	5.00	Project under DPR stage (NIL expected COD)		Not available
31.	Jail	1.00 (Capacity revised to 1.2MW)	Commissioned on 27.01.2021		Not available
32.	Manikaran	4.00	Project under clearance (NIL expected COD)		As per TEC dated 17.05.2013, for evacuation of power the IPP shall interface this project with 33kV substation at Jari of HPSEBL at 33kV level in joint mode with Manikaran Choj SHP (5 MW) and Barhmganga SHP (5 MW) by constructing 33kV line on D/C structures with 0.15 sq. in. ACSR "WOLF" Conductor upto Jari substation.

ATTESTED

Vijay Kumar Sekhri
Advocate cum Notary Public

General Manager (C&D)
HPPTCL, Shimla-5

Sr.	Name of Project	Capacity (MW) as per DPR	Actual COD/ Expected	TSA Status	Evacuation Mode (Embedded in HPSEBL/ HPPTCL Charor)
33.	Raskat-II	0.40	TEC accorded		For evacuation of power the IPP shall interface this project at 11 kV substation of HPSEBL at Raskat in joint mode with existing Raskat SHP.
34.	Manikaran Choj	2.50 (Capacity revised to 5MW)	Project under DPR stage (NIL expected COD)		
35.	Malana Top	5.00	Project under construction(NIL expected COD)		The power from the project shall be evacuated in joint mode with Malana-III HEP (30 MW) by constructing 66 kV S/C transmission line on D/C towers/rail poles from Malana Top SHP (5 MW) to 132 kV yard of Malana-II HEP (100 MW).
36.	Malana-III	30.00	The matter is sub-judice for allotment of HEP (NIL expected COD)		TEC not accorded
37.	Malana-IV	10.00 (Capacity revised to 3MW)	Under clearance (NIL expected COD)		DPR not available
38.	Chharor	0.80	Project under clearance (NIL expected COD)		As per TEC dated 04.10.2013, for evacuation of power the IPP shall interface its project in joint mode with Chharor SHP (3 MW) at 33kV level up to Sarsadi-II SHP (9 MW) where it will be stepped up to 132kV and injected in to 132/220kV sub-station of HPPTCL at Chharor.
39.	Chharor	3.00 (Capacity revised to 2MW)	Project under DPR Stage		

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Vijay Kumar Sekhri
Advocate cum Notary Public
Distt. Shimla (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

Sr.	Name of Project	Capacity (MW) as per DPR	Actual COD/ Expected	TSA Status	Evacuation Mode (Embedded in HPSEBL/ HPPTCL Charor)
			(NIL expected COD)		
40.	Sharni	9.60	Project under clearance (NIL expected COD)		As per TEC dated 23.09.2014, the power of Sharni SHP (9.60 MW) shall evacuated in joint mode with Sarsadi SHP (9.60 MW) by constructing/laying 33 kV joint Dedicated Line/Underground Cable up to 33/132 kV sub station at Sarsadi SHP switchyard (to be constructed by the IPPs) where both circuits of 132 kV Double CIrcuit Barsaini- Charor transmission line of HPPTCL shall be solidly tapped with two feeder bays at T- point and two feeder bays to other end having appropriate protection with communication Relays/SCADA and OPGW etc.
	TOTAL	**188.90**			

Queries related to Asset-1:

8) At Para 4.5.7 of the Petition, it has been submitted that the DPR for 220/132 kV, 3x25.56/34.08/42.6 MVA GIS Sub-Station at Charor in Distt. Kullu has been prepared based on price level of 4th quarter of 2011 whereas the Notification of Award was on dated 19.03.2018, thus, leading to variation in prices with respect to those considered during preparation of DPR. In this context, please submit the approval of Board/Competent authority on revised cost for tendering along with revised project approval of CEA.

Reply: With regard to above Query, it is submitted that approval of Board of Directors was taken through its 36th Meeting held on 21.03.2018 in respect of placing Award on M/s Kanohar Electricals Limited for construction of 220/132kV Charor Substation. Further approval of ADB was also taken before Awarding work of said Substation. Copy of BOD approval and approval by ADB is enclosed as **Annexure-8A** and **Annexure-8B** respectively.

ATTESTED
Vijay Kumar Sekhani
Advocate cum Notary Public
Yash Bhawan, Vikas Nagar
Shimla (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

In addition to above, it is submitted that no revised project approval was taken from CEA on account of fact that CEA only certifies DPR Cost of Project and Award Cost is not required to be approved from CEA.

9) In the DPR submitted as annexure 4(i) to the Petition, an amount of Rs 1.97 Cr was estimated for construction of residential colony, however, details of tender award and progress is not submitted. Please submit the same.

Reply: With regard to above Query, it is submitted that the residential colony work has been completed. However, the location for construction of residential colony was shifted and same has been constructed at Phozal Substation site. Accordingly, all associated works have been executed at Phozal Substation. Although expenditure has been charged under separate Cost Head, the same shall be recovered during the true-up for Phozal Substation.

10) In its reply filed on 22.07.2025, it has been submitted details of additional capitalization from COD to 31st March 2024 along with provisional certificate as Rs 2.11 Cr. However, as per the provisional certificates annexed to the reply and the funding structure submitted in the Petition at Table No. 18 for additional capitalization, it is observed that the entire additional capitalization of Rs 2.11 Cr has been claimed through equity in FY2023-24. In this context, please submit the reason for claiming the entire funding as equity instead of mixture of debt and equity as per HPERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2011, as amended from time to time.

Reply: It is humbly submitted that the Petitioner has considered the actual funding i.e., from equity for the additional capitalization of Rs. 2.11 Crore incurred during FY 2023-24. Said complete expenditure was made through equity component in order to maintain continuity in the execution of works, as ADB Tranche-III was closed on 29.09.2021 and processing/approval/drawl of loan from domestic funding agency (HP State Cooperative Bank) required some time. Presently, loan is being drawn by HPPTCL from HP State Cooperative Bank in order to reduce equity component. As on date expenditure amounting to Rs 1.63 Crores has been drawn from HPSCB and other amount of Rs 4.97 Crores(amount of Rs 4.97 Crores is not a new amount rather same is already built-in in up to date expenditure provided for Asset-1) is yet to be drawn.

ATTESTED

Vijay Kumar Sekloni
Advocate cum Notary Public
Yash Bhawan, Vikas Nagar

General Manager (C&D)
HPPTCL, Shimla-5

It is also acknowledged that while claiming the tariff, the normative debt equity ratio is required to be considered as 70:30 in accordance with the HPERC (Terms and Conditions for Determination of Transmission Tariff) Regulations, 2011, as amended from time to time and it is requested before Hon'ble Commission to allow tariff on additional capitalization of Rs 2.11 Crores as per applicable HPERC Transmission Tariff Regulations.

11) In reply to query No. 9(c), it has been submitted that land cost amounting to Rs 4.50 Cr. considered in DPR is purely on estimation basis. However, cost of Rs 6.21 Cr. is actual expenditure incurred by HPPTCL against land cost towards 220/132kV Charor Sub-station. In this context, please submit the executed land deeds/purchase agreements along with the board/competitive authority approval for purchasing land at revised cost.

Reply: With regard to above Query, it is submitted that detail of land purchased alongwith approval of competent authority is as under:-

S.No.	Description	Amount (in Rs)	Approved by authority	Remarks
	Cost of land @ Rs 20,02,275.00 per Bigha	2,81,06,932.00	Order by Land Acquisition Collector dated 10.03.2014 issued in Award No. 4	**Annexure-9A**
	Solatium @ 100%	2,81,06,932.00		
	Additional charges	14,60,020.00		
	TOTAL	**5,76,73,884.00**		
	Cost of fruit plants/trees	6,57,280.00	Order by Land Acquisition Collector dated 29.10.2014 issued in Supplementary	**Annexure-9B**
	Cost of structure	4,82,313.00		
	Solatium @100%	11,39,593.00		

ATTESTED
Vijay Kumar Saklani
Advocate cum Notary Public
Yash Bhawan, Vikas Nagar
Shimla-171004

General Manager (C&D)
HPPTCL, Shimla-5

	Additional Charges	1,50,989.00	Award in Award No. 4	
	TOTAL	**24,30,175.00**		
	Amount wrongly booked into Charor Substation	20,00,000.00		
	TOTAL	**6,01,04,059.00**		

As amount of Rs 20,00,000.00 has been wrongly booked into expenditure of 220/132kV Charor Substation, it is requested before Hon'ble Commission to allow expenditure towards land after excluding said expenditure.

In addition to above, it is submitted that land for construction of Charor Substation was acquired by HPPTCL as per orders of LAO, after issuance of Notification under Land Acquisition Act 1894 at the time of initiation of acquisition proceedings. Against said payments released by HPPTCL, some land owners moved to Collector L.A. (ADJ Court) under Section 64 of new Act i.e. "The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013" and HPPTCL was directed to make the payment of additional compensation of 75% under provisions of new Act. Said Orders of ADJ Court were challenged before Hon'ble High Court and presently said matters are pending before Hon'ble High Court. However, payment of Rs 6,63,66,856.00(supporting documents enclosed as **Annexure-9C**) was released by HPPTCL pursuant to Hon'ble High Court directions and said amount was booked into Books of HPPTCL. Due to inadvertence, said amount could not be booked into expenditure details of Charor Substation upto FY 2023-24 which otherwise was lying in the vendor account of the Registrar General (in SAP G/L (1090025) under Advance Deposit against Court Case. Copy of the Certificate certifying booking of said amount of Rs 6.64 Crores under vendor account of the Registrar General is attached as **Annexure-9D**. As said expenditure pertains to said asset only, it is requested before Commission to allow and approve said expenditure.

ATTESTED

Advocate
Yash Bhawan, Vikas Nagar
Shimla (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

12) At Table No. 22 of the Petition, depreciation for Asset-1 in FY2023-24 has been claimed as Rs 4.14 Cr. However, at Table No. 20 read with Para 4.9.3, it is observed that the HPPTCL has estimated repayment of the loan equal to Depreciation on pro-rata basis as Rs 0.71 Cr. In this context, please submit the methodology along with reason for the same

Reply: With regard to the query above, it is humbly submitted that, in accordance with the revised "on-lending agreement" signed on 04.07.2024, between the Government of Himachal Pradesh (GoHP) and HPPTCL, 10% of the total disbursement will have an interest rate of 10%, while 80% will be classified as an interest-free loan. Although both portions of the loan are subject to repayment. However, the repayment considered for calculation of interest on loan pertains to 10% of the total disbursement only as the remaining repayment will be utilized to service the interest free loan. Copy of revised On-lending Agreement signed between GoHP & HPPTCL on 04.07.2024 is enclosed as **Annexure-10**.

13) With respect to the additional submissions in regard of funding towards Asset-I in reply filed on 22.07.2025, the HPPTCL has submitted that it is liable for debt servicing as per terms and conditions of loan agreement executed between HPPTCL and HP State Cooperative Bank (HPSCB). In this context, please submit the copy of loan agreement executed with HP State Co-operative Bank (HPSCB) along with details of withdrawal schedule and corresponding actual drawal. Further, please submit the capital expenditure details in the format below:

From ADB	Equity infused	Planned from HPSCB

Reply: As per above Query, copy of Loan Agreement executed with HP State Co-operative Bank (HPSCB) is enclosed as **Annexure-11A.** With regard to withdrawal Schedule, it is submitted that 220/132kV Charor Substation is one of the asset among 16 No. of assets which were proposed to be financed through HP State Co-operative Bank (HPSCB) as Spill Over Works of HP Clean Energy Transmission Investment Programme upon closure of ADB Tranche-III on 29.09.2021. Loan withdrawn under aforementioned lending arrangement is towards all assets proposed to be financed and copy of loan withdrawn is

ATTESTED
Vijay Kumar Sankhyan
Advocate cum Notary Public
Yash Bhawan, Vikas Nagar
Shimla (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

enclosed as **Annexure-11B.** Detail of actual drawl of loan towards each of the Scheme is enclosed as **Annexure-11C.**

The details of capital expenditure in the format as below:

From ADB (in Rs Crores)	Equity infused (in Rs Crores)	From HPSCB (in Rs Crores)	
60.56	26.88(including amount deposited in Hon'ble High Court)	1.63 (already drawn)	4.97* (To be drawn)

*Amount of Rs 4.97 Crores to be drawn from HP State Cooperative Bank is not a new amount rather same is included in up to date expenditure provided for Asset-1.

Queries pertaining to Asset-2

14) At Para 5.5.7 of the Petition, it has been submitted that the DPR for 220/33 kV, 80/100 MVA Additional Transformer at GIS Sub-Station, Charor in Distt. Kullu has been prepared based on price level of 2014-15 whereas Notification of Award for construction of said Asset was on dated 08.03.2019, thus, leading to variation in prices at the time of award with respect to prices at DPR stage. In this context, please submit approval of Board/Competent authority on revised cost for tendering along with revised project approval of CEA.

Reply: The approval of competent authority before placing Award for construction of Asset-2 on dated 08.03.2019 is enclosed as **Annexure-12.**

15) The DPR cost of Asset-2 has been claimed as Rs 40.92 Cr. However, as per Annexure I of the DPR at Annexure 4(ii) and CEA approval at Annexure 2(ii) of the Petition, the project cost is Rs 39.73 Cr. and Rs 39.00 Cr. respectively. Please provide reasons for the variation in this regard.

Reply: The Petitioner humbly submits that the DPR value of Rs. 40.92 Crores included land cost as Rs. 2.50 Crores whereas, the amount of Rs. 39.73 Crores(amount of Rs 39.73 Crores as mentioned in Query is erroneous as totaling up costs mentioned at Annexure-I of DPR gives value of Rs 39.78 Crores) included land cost as Rs. 1.50 Crores. The variation between two costs i.e. Rs 40.92 Crores and Rs 39.78 Crores is due to the land cost value.

Whereas the consolidated DPR amounting to Rs. 716.30 Crores of GEC-I scheme with project cost of Addl. Charor as Rs. 39.78 Crores (land cost as Rs. 1.50 Crores)

ATTESTED
Vijay Kumar Saklani
Advocate cum Notary Public
Yash Bhawan, Vikas Nagar
Shimla-171009

General Manager (C&D)
HPPTCL, Shimla-5

rounded off to Rs. 40Crores was submitted to CEA which has been approved by MNRE vide revised sanction order dated 11.06.2019 with a note that the detailed project components would be as per the technical approvals of CEA communicated to the States from time to time (copy enclosed as **Annexure-13A**). However, CEA has considered the DPR cost in respect of "Providing additional 33/220kV, 100 MVA Transformer at 132/220kV, 100 MVA GS substation at Charor (ADB funded)" as Rs. 39/- Crores during NCEF grant release case which doesn't include the cost of land (copy enclosed as **Annexure-13B**)

16. As per the provisional certificates annexed to the reply filed on 22.07.2025 and to the Petition, it has been observed that capital cost as on COD has been increased due to following

	As per the Petition	As Per the Reply
AECOM Consultancy Expenses	1.09	1.70
IDC	4.17	5.12

In this context, please submit the details of services provided by AECOM and reasons for increase in expenses along with detailed computation of IDC in proper formula linked excel file

Reply: With regard to above Query, detail of services provided by M/s AECOM are indicated under Point No. "2.1b" of Clause No. 2 titled "Implementation Consultant" of Separate Agreement to the Project Agreement dated 05.10.2015 and copy of same is enclosed as **Annexure-14A.**

With regard to reason for increase in AECOMM expenses it is submitted that in the provisional Cost Certificate upto COD submitted earlier by Petitioner, IDC & AECOMM Consultancy Expenses were included upto 31.03.2023 only. Said figures have now been updated upto date of actual COD i.e. 23.06.2023 based on Audited Certificate for Capital Cost as on COD for Asset-2.

In addition to above, it is submitted that AECOMM Expenditure, AECOM Departmental Charges & AECOM IDC for the Financial Years 2021-22, 2022-23 & 2023-24 have also been reallocated based on revised allocation approach.

The detailed computation of IDC in proper formula linked excel file is enclosed as **Annexure-14B.**

ATTESTED
Vijay Kumar Sankhyan
Advocate cum Notary
Vidhi Bhawan, Vikas Nagar

General Manager (C&D)
HPPTCL, Shimla-5

BEFORE HIMACHAL PRADESH ELECTRICITY REGULATORY COMMISSION, SHIMLA

Filing No. 211 of 2024

IN THE MATTER OF:

FILING OF MYT PETITION FOR APPROVAL OF CAPITAL COST AND DETERMINATION OF TARIFF FOR 4TH CONTROL PERIOD FROM COD TO FY 2023-24 FOR 220/132 KV, 77/102/128 MVA GIS SUB-STATION (ASSET-1) AND 220/33 KV, 80/100 MVA ADDITIONAL TRANSFORMER (ASSET-2) AT GIS SUB-STATION, CHAROR, KULLU UNDER THE HIMACHAL PRADESH ELECTRICITY REGULATORY COMMISSION (MULTI YEAR TARIFF) REGULATIONS AND ITS AMENDMENTS THEREOF AND UNDER SECTION 62 READ WITH SECTION 86 OF THE ELECTRICITY ACT 2003.

AND IN THE MATTER OF:

HIMACHAL PRADESH POWER TRANSMISSION CORPORATION LIMITED, HIMFED BHAWAN, PANJARI, SHIMLA-171005.

.....PETITIONER

Affidavit verifying the Petition

I, Manoj Kumar S/o of Shri Kishan Chand aged about 59 years, presently working as a Dy. General Manager (C&M), Himachal Pradesh Power Transmission Corporation Limited, Shimla, do hereby solemnly affirm and declare as under:

1. That I am duly authorized to file this Compliance Report and swear in the affidavit therein.

2. That the Reply to data gaps has been prepared and drafted at my instance and under my instructions. The contents of the Data Gaps are true and correct based on official record and the advice received. No part of it is false and nothing material has been concealed there from.

3. That the Petitioner further declares that this affidavit of mine is true and correct to the best of my personal knowledge, no part of it is false and nothing material has been concealed there from.

Verified at Shimla on this 24th day of October, 2025.

Deponent
General Manager (C&D)
HPPTCL, Shimla-5

NOTARY PUBLIC GOVT OF H.P. NOTARIAL

Vijay Kumar Sakteri Advocate cum Notary Public Ash Bhawan, Vikas Nagar Shimla (H.P.)

Kartik IDENTIFIED BY HP 2996129733

Manoj Kumar Kartik Thakur

24/10/25

ANNEXURE - 1A

HP Power Transmission Corporation Ltd.
Himfed Bhawan New ISBT Road Panjri, Shimla.

CERTIFICATE

Name of project : 132/220KV Sub Stn. Charor

We have confirmed that the following expenditure (Capital Cost) has been incurred on the above mentioned project as on Date 23.06.2023.

Sr No	Particulars	
		Amt. Rs. In Lakh
1	Erection & Civil Work	1569.04
2	Material Supplied	4800.36
	Sub Total (A)	**6369.40**
3	Tendre Exp. /Adv.	2.24
4	Right of Way	0.02
5	Land Acquisition	621.04
6	Soil Investigation	4.28
7	Site Supervision & Site admn. Etc.	5.07
8	Other Misc. Charges	0.01
9	Legal Expenses	15.41
10	Water Supply Connection	0.60
11	Furniture	1.33
12	Testing & Commishioning	1.65
	Sub Total (B)	**651.65**
	Total (C) = (A+B)	**7021.05**
10	DC (Departmental Charges)	373.49
11	IDC (Interest During Construction)	990.09
	Total (D)	**1363.58**
	Grand Total (E)=(C+D)	**8384.63**

This is to certify that the above summery has been prepared on the basis of information drawn from the Draft Financial Statement and SAP of HP Power Transmission Corporation Ltd. as on 23.06.2023.

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance)
HPPTCL,Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFXXF8688
Date :- 25/7/25

General Manager (C&D)
HPPTCL, Shimla-5

H P POWER TRANSMISSION CORPORATION LIMITED
HIMFED BHAWAN NEW ISBT ROAD, PANJRI, SHIMLA-171005.

CERTIFICATE
132/220KV Sub/Stn Charpr

Date: As on 23.06.2023

(Rs.In Lakhs)

Description	2014-15	2015-16	2016-17	2017-18	Mob. Adv.2018-19	2018-19	2019-20	2020-21	2021-22	2022-23	1.04.2023-26.06.23	Total Capital cost	Total Debt/Equity
1	2	3	4	5	6	7	8	9	10	11	12	13(2+3+5+7+8+9 +10+11+12)	14 (13+6)(13-6)
ADB Loan	0.00	0.00	0.00	0.00	603.16	0.00	1645.42	2964.50	843.35	0.00	0.00	5453.27	6056.43
Equity	1.33	0.00	4.58	0.00	-603.16	706.75	506.58	682.76	847.79	165.83	15.74	2931.36	2328.20
Total (A)	1.33	0.00	4.58	0.00	0.00	706.75	2152.00	3647.26	1691.14	165.83	0.00	8384.63	8384.63
Consumer Contribution (B)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capital Cost (A-B)	1.33	0.00	4.58	0.00	0.00	706.75	2152.00	3647.26	1691.14	165.83	0.00	8384.63	8384.63

Note: The Debt Equity Ratio may be considered as per column 14 The difference in figure at column 14 & 13 is due to incorporation of mobilization Advance at column 6

Sr.Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance)
HPPTCL, Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFXXF8688
Date:- 25/07/2025

General Manager: (C&D)
HPPTCL, Shimla-5

1.A.2

HP Power Transmission Corporation Ltd.
Himfed Bhawan New ISBT Road Panjri, Shimla.

CERTIFICATE

Name of project : 132/220KV Sub Stn. Charor

We have confirmed that the following expenditure (Capital Cost) has been incurred on the above mentioned project as on Date 31.03.2020

Sr No	Particulars	Rs in Lakhs
1	Land Acquisition	663.67
	Total	663.67

This is to certify that the above summery has been prepared on the basis of information drawn from the Draft Financial Statement and SAP of HP Power Transmission Corporation Ltd. as on 31.03.2020.

Note: This amount of land is related to the Charor Sub Station.The said amount has been booked in SAP under G/L (1090025) Advance deposit against Court Case. The amount is currently lying in the vendor account of the Registrar General and shall be considered for petition purposes.

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance),
HPPTCL, Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFYMS5964
Date :- 16/10/2025

General Manager (C&D)
HPPTCL, Shimla-5

1A.3

H P POWER TRANSMISSION CORPORATION LIMITED
HIMFED BHAWAN NEW ISBT ROAD, PANJRI, SHIMLA-171005.

CERTIFICATE
132/220KV Sub/Stn Charor

Date: As on 31.03.2020

(Rs.In Lakhs)

Description	2019-20	Total Capital Cost & Debt/Equity
1	2	3(1+2)
Loan	0.00	0.00
Equity	663.67	663.67
Total Capital Cost	663.67	663.67

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance),
HPPTCL, Panjari,
Shimla-5

SHARMA, RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFYMS5964
Date :- 16/10/2025

General Manager (C&D)
HPPTCL, Shimla-5

1.A.4

ANNEXURE-1B

HP Power Transmission Corporation Ltd.
Himfed Bhawan New ISBT Road Panjri, Shimla.

CERTIFICATE

Name of project : 220/33KV Addl. Transformer at Charor

We have confirmed that the following expenditure (Capital Cost) has been incurred on the above mentioned project as on Date 23.06.2023.

Sr No	Particulars	
		Rs. In Lakh
1	Erection & Civil Work	224.37
2	Material Supplied	3232.77
	Sub Total (A)	**3457.14**
3	Tendre Exp. /Adv.	0.49
4	Testing & Commissioning	1.18
5	Land Acquisition	0.00
	Sub Total (B)	**1.67**
	Total (C) = (A+B)	**3458.81**
6	AECOM Consultancy Expenses	169.99
7	DC (Departmental Charges)	160.60
8	IDC (Interest During Construction)	512.22
	Total (D)	**842.81**
	Grand Total (E)=(C+D)	**4301.62**

This is to certify that the above summery has been prepared on the basis of information drawn from the Draft Financial Statement and SAP of HP Power Transmission Corporation Ltd. as on 23.06.2023.

Note:-1 DC for FY 2022-23 Rs. -3.73 Lakhs is propotionate upto 23.06.2023 i.e. for 84 Days is Rs. -0.86 Lakhs

Note:2 The AECOM Expenditure, AECOM DC, and AECOM IDC for the financial years 2021–22, 2022–23, and 2023–24 have been rectified during the financial year 2024–25. The said expenditures have been reallocated by changing the methodology of allocation in FY 2024–25.

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance)
HPPTCL, Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFXXD7957
Date:- 25.07.2025

General Manager (C&D)
HPPTCL, Shimla-5

1.B.1

H P POWER TRANSMISSION CORPORATION LIMITED
HIMFED BHAWAN NEW ISBT ROAD, PANJRI, SHIMLA-171005.

CERTIFICATE

Name of project : 220/32KV Addl. Transformer at Charor .

Date: As on 23.06.2023

(Rs.In Lakhs)

Description	2018-19	Mob. Adv. 2019-20	2019-20	2020-21	2021-22	2022-23	2023-23.6.2023	Total Capital cost	Total Debt/Equity
1	2	3	4	5	6	7	8	9(2+4+5+6+7+8)	10(9+3)(9-3)
KFW Loan	0.00	0.00	0.00	1289.12	904.04	440.51	95.07	2728.74	2728.74
MNRE Grant	0.00	303.95	0.00	0.00	36.87	0.00	0.00	36.87	340.82
Equity	0.52	-303.95	0.00	678.48	562.46	174.46	120.09	1536.01	1232.06
Total (A)	**0.52**	**0.00**	**0.00**	**1967.60**	**1503.37**	**614.97**	**215.16**	**4301.62**	**4301.62**

Note: The Debt Equity Ratio may be considered as per column 10. The difference in figure at column 9&10 is due to incorporation of mobilization Advance at column 3

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (F&A)
HPPTCL, Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25086586BMFXXD7957
Date:- 25.07.2025

General Manager (C&D)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

1.8.2

ANNEXURE-1C

HP Power Transmission Corporation Ltd.
Himfed Bhawan New ISBT Road Panjri, Shimla.

CERTIFICATE

Name of project : 132/220KV Sub Stn. Charor

We have confirmed that the following expenditure (Capital Cost) has been incurred on the above mentioned project as on Date 24.06.2023 to 31.03.2024.

Sr No	Particulars	
		Amt. Rs. In Lakh
1	Erection & Civil Work	212.51
2	Material Supplied	-6.49
	Sub Total (A)	**206.02**
3	Tendre Exp. /Adv.	0.10
4	Right of Way	
5	Land Acquisition	2.91
6	Soil Investigation	
7	Site Supervision & Site admn. Etc.	
8	Other Misc. Charges	0.03
9	Legal Expenses	
	Sub Total (B)	**3.04**
	Total (C) = (A+B)	**209.06**
10	DC (Departmental Charges)	2.60
11	IDC (Interest During Construction)	0.00
	Total (D)	**2.60**
	Grand Total (E)=(C+D)	**211.66**

This is to certify that the above summery has been prepared on the basis of Information drawn from the Draft Financial Statement and SAP of HP Power Transmission Corporation Ltd. as on 24.06.2023 to 31.03.2024.

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance)
HPPTCL, Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFYMU7335
Date:- 16/10/2025

General Manager (C&D)
HPPTCL, Shimla-5

H P POWER TRANSMISSION CORPORATION LIMITED
HIMFED BHAWAN NEW ISBT ROAD, PANJRI, SHIMLA-171005.

CERTIFICATE

132/220KV Sub/Stn Charor

Date: As on 24.06.2023 to 31.03.2024

(Rs.In Lakhs)

Description	24.06.2023 to 31.03.2024	Total Capital cost	Total Debt/Equity
1	1	2	3
Loan	0.00	0.00	0.00
Equity	211.66	211.66	211.66
Total Capital Cost	211.66	211.66	211.66

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (F&A)
HPPTCL, Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFYMU7335
Date :- 16/10/2025

General Manager (C&D)
HPPTCL, Shimla-5

1.C-2

HP Power Transmission Corporation Ltd.
Himfed Bhawan New ISBT Road Panjri, Shimla.

CERTIFICATE

Name of project : 132/220KV Sub Stn. Charor

We have confirmed that the following expenditure (Capital Cost) has been incurred on the above mentioned project as on Date 23.06.2023.

Sr No	Particulars	
		Amt. Rs. In Lakh
1	Erection & Civil Work	1569.04
2	Material Supplied	4800.36
	Sub Total (A)	**6369.40**
3	Tendre Exp. /Adv.	2.24
4	Right of Way	0.02
5	Land Acquisition	621.04
6	Soil Investigation	4.28
7	Site Supervision & Site admn. Etc.	5.07
8	Other Misc. Charges	0.01
9	Legal Expenses	15.41
10	Water Supply Connection	0.60
11	Furniture	1.33
12	Testing & Commishioning	1.65
	Sub Total (B)	**651.65**
	Total (C) = (A+B)	**7021.05**
10	DC (Departmental Charges)	373.49
11	IDC (Interest During Construction)	990.09
	Total (D)	**1363.58**
	Grand Total (E)=(C+D)	**8384.63**

This is to certify that the above summery has been prepared on the basis of information drawn from the Draft Financial Statement and SAP of HP Power Transmission Corporation Ltd. as on 23.06.2023.

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance)
HPPTCL,Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFXXF8688
Date :- 25/7/25

General Manager (C&D)
HPPTCL, Shimla-5

1.C.3

H P POWER TRANSMISSION CORPORATION LIMITED
HIMFED BHAWAN NEW ISBT ROAD, PANJRI, SHIMLA-171005.

CERTIFICATE
132/220KV Sub/Stn Charor

Date: As on 23.06.2023

(Rs.In Lakhs)

Description	2014-15	2015-16	2016-17	2017-18	Mob. Adv.2018-19	2018-19	2019-20	2020-21	2021-22	2022-23	1.04.2023-26.06.23	Total Capital cost	Total Debt/Equity
1	2	3	4	5	6	7	8	9	10	11	12	13(2+3+5+7+8+9 +10+11+12)	14 (13+6)(13-6)
ADB Loan	0.00	0.00	0.00	0.00	603.16	0.00	1645.42	2964.50	843.35	0.00	0.00	5453.27	6056.43
Equity	1.33	0.00	4.58	0.00	-603.16	706.75	506.58	682.76	847.79	165.83	15.74	2931.36	2328.20
Total (A)	1.33	0.00	4.58	0.00	0.00	706.75	2152.00	3647.26	1691.14	165.83	0.00	8384.63	8384.63
Consumer Contribution (B)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capital Cost (A-B)	1.33	0.00	4.58	0.00	0.00	706.75	2152.00	3647.26	1691.14	165.83	0.00	8384.63	8384.63

Note: The Debt Equity Ratio may be considered as per column 14. The difference in figure at column 14 & 13 is due to incorporation of mobilization Advance at column 6

Sr.Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance)
HPPTCL,Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFXXF8688
Date:- 25/07/2025

General Manager (C&D)
HPPTCL, Shimla-5

1.C.4

HP Power Transmission Corporation Ltd.
Himfed Bhawan New ISBT Road Panjri, Shimla.

CERTIFICATE

Name of project : 132/220KV Sub Stn. Charor

We have confirmed that the following expenditure (Capital Cost) has been incurred on the above mentioned project as on Date 31.03.2020

Sr No	Particulars	Rs In Lakhs
1	Land Acquisition	663.67
	Total	663.67

This is to certify that the above summery has been prepared on the basis of information drawn from the Draft Financial Statement and SAP of HP Power Transmission Corporation Ltd. as on 31.03.2020.

Note: This amount of land is related to the Charor Sub Station.The said amount has been booked in SAP under G/L (1090025) Advance deposit against Court Case. The amount is currently lying in the vendor account of the Registrar General and shall be considered for petition purposes.

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance),
HPPTCL, Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFYMS5964
Date :- 16/10/2025

General Manager (C&D)
HPPTCL, Shimla-5

10/25

H P POWER TRANSMISSION CORPORATION LIMITED
HIMFED BHAWAN NEW ISBT ROAD, PANJRI, SHIMLA-171005.

CERTIFICATE
132/220KV Sub/Stn Charor

Date: As on 31.03.2020 **(Rs.In Lakhs)**

Description	2019-20	Total Capital Cost & Debt/Equity
1	2	3(1+2)
Loan	0.00	0.00
Equity	663.67	663.67
Total Capital Cost	**663.67**	**663.67**

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance),
HPPTCL, Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFYMS5964
Date :- 16/10/2025

General Manager (C&D)
HPPTCL, Shimla-5

1.C.6

ANNEXURE -1D

HP Power Transmission Corporation Ltd.
Himfed Bhawan New ISBT Road Panjri, Shimla.

CERTIFICATE

Name of project : 220/33KV Addl. Transformer at Charor

We have confirmed that the following expenditure (Capital Cost) has been incurred on the above mentioned project as on Date 23.06.2023 & 31.03.2024.

Sr No	Particulars	23.06.2023	24.06.2023 to 31.03.2024	31.03.2024
		Amt. Rs. In Lakh		
1	Erection & Civil Work	224.37	1.27	225.64
2	Material Supplied	3232.77	2.76	3235.53
	Sub Total (A)	3457.14	4.03	3461.17
3	Tendre Exp. /Adv.	0.49	0.00	0.49
4	Testing & Commissioning	1.18	0.00	1.18
5	Land Acquisition	0.00	0.00	0.00
6	MNRE Grant	0.00	-347.06	-347.06
	Sub Total (B)	1.67	-347.06	-345.39
	Total (C) = (A+B)	3458.81	-343.03	3115.78
6	AECOM Consultancy Expenses	169.99	0.00	169.99
7	DC (Departmental Charges)	160.60	-2.87	157.73
8	IDC (Interest During Construction)	512.22	0.00	512.22
	Total (D)	842.81	-2.87	839.94
	Grand Total (E)=(C+D)	4301.62	-345.90	3955.72

This is to certify that the above summery has been prepared on the basis of information drawn from the Draft Financial Statement and SAP of HP Power Transmission Corporation Ltd. as on 31.03.2024.

Note:-1 DC for FY 2023-24 Rs. -3.73 Lakhs is propotionate upto 23.06.2023 i.e. for 84 Days is Rs. -0.86 Lakhs

Note:2 The AECOM Expenditure, AECOM DC, and AECOM IDC for the financial years 2021–22, 2022–23, and 2023–24 have been rectified during the financial year 2024–25. The said expenditures have been reallocated by changing the methodology of allocation in FY 2024–25.

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance),
HPPTCL, Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFYMT8971
Date :- 15/10/2025

General Manager (C&D)
HPPTCL, Shimla-5

10.01

H P POWER TRANSMISSION CORPORATION LIMITED
HIMFED BHAWAN NEW ISBT ROAD, PANJRI, SHIMLA-171005.

CERTIFICATE

Name of project : 220/33KV Addl. Transformer at Charor .

Date: As on 23.06.2023 & 31.03.2024

(Rs.In Lakhs)

Description	2018-19	Mob. Adv 2019-20	2019-20	2020-21	2021-22	2022-23	2023-23.6.2023	24.06.2023 to 31.03.2024	Total Capital cost upto COD	Total Debt/Equity upto COD	Total Capital Cost upto 31.03.2024	Total Debt/Equity
1	2	3	4	5	6	7	8	9	10(2+4+5+6+7+8)	11(10+3)(10-3)	12(9+10)	13(12+3) (12-3)
KFW Loan	0.00	0.00	0.00	1377.77	904.04	440.51	95.07	180.49	2817.39	2817.39	2997.88	2997.88
MNRE Grant	0.00	303.95	0.00	0.00	36.87	0.00	0.00	-340.82	36.87	340.82	-303.95	0.00
Equity	0.52	-303.95	0.00	589.82	562.46	174.46	120.09	-185.56	1447.35	1143.40	1261.79	957.84
Total (A)	0.52	0.00	0.00	1967.59	1503.37	614.97	215.16	-345.89	4301.61	4301.61	3955.72	3955.72

Note: The Debt Equity Ratio may be considered as per column 11 & 13. The difference in figure at column 10&12 is due to incorporation of mobilization Advance at column 3

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance),
HPPTCL, Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFYMT8971
Date:- 16/10/2025

General Manager (C&D)
HPPTCL, Shimla-5

1.0.2

ANNEXURE-1C

HP Power Transmission Corporation Ltd.
Himfed Bhawan New ISBT Road Panjri, Shimla.

CERTIFICATE

Name of project : 132/220KV Sub Stn. Charor

We have confirmed that the following expenditure (Capital Cost) has been incurred on the above mentioned project as on Date 31.03.2020

Sr No	Particulars	Rs in Lakhs
1	Land Acquisition	663.67
	Total	663.67

This is to certify that the above summery has been prepared on the basis of information drawn from the Draft Financial Statement and SAP of HP Power Transmission Corporation Ltd. as on 31.03.2020.

Note: This amount of land is related to the Charor Sub Station.The said amount has been booked in SAP under G/L (1090025) Advance deposit against Court Case. The amount is currently lying in the vendor account of the Registrar General and shall be considered for petition purposes.

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance),
HPPTCL, Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFYMS5964
Date :- 16/10/2025

General Manager (C&D)
HPPTCL, Shimla-5
)·E·)

H P POWER TRANSMISSION CORPORATION LIMITED
HIMFED BHAWAN NEW ISBT ROAD, PANJRI, SHIMLA-171005.

CERTIFICATE
132/220KV Sub/Stn Charor

Date: As on 31.03.2020

(Rs.In Lakhs)

Description	2019-20	Total Capital Cost & Debt/Equity
1	2	3(1+2)
Loan	0.00	0.00
Equity	663.67	663.67
Total Capital Cost	**663.67**	**663.67**

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance),
HPPTCL, Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFYMS5964
Date :- 16/10/2025

General Manager (C&D)
HPPTCL, Shimla-5

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ANNEXURE -2A

H. P. POWER TRANSMISSION CORPORATION LIMITED

(A State Government Undertaking)

BAROWALIAS HOUSE, KHALINI, SHIMLA - 171002

Phone No.: 0177 - 2626784, FAX No.: 0177 - 2620227, 2626284

No: **HPPTCL / Contracts /ADB/220 KV GIS Charor/ 2016 -** 8953 Dated: 11/03/2016

Mr.Yongping Zhai,
Director, Energy Division
South Asia Department
Asian Development Bank
6 ADB Avenue, Mandaluyong City,
1550 Metro Manila, Philippine

Subject: Loan No.: 3001 – IND: HP Transmission - Proposed Himachal Pradesh Clean Energy Transmission Investment Program (Tranche - 2) - **Bid No.: 17 - SS / ADB / HPPTCL / 220 KV Charor Sub Station**

Reference: - Your email dated 06.03.2016

Dear Sir,

This is reference to your email quoted under reference vide which you have desired some corrections to be made in Financial Bid Evaluation Report of the above Bid No.: 17- SS / ADB / HPPTCL / 220kV GIS CHAROR Sub-Station already submitted vide even letter No. 8062 dated 04.02.2016. The corrections has been made , we are submitting herewith three (3) copies of the Bid Evaluation Report (Price Proposals) for the ADB's review and approval.

The validity of bids of top three prospective bidders is up-to ***15.04.2016.*** We request for early approval of the recommendations made in the Report so that award can be placed before expiry of the validity period.

Sincerely yours,

10/3/16

Addl. General Manager (Contracts)

Attachment: **Three copies of Report.**

General Manager (C&D)
HPPTCL, Shimla-5

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H. P. POWER TRANSMISSION CORPORATION LTD.

BID EVALUATION REPORT

(PRICE PROPOSAL)

FOR

CONSTRUCTION OF 33/132/220 kV GIS SUBSTATION AT CHARORIN KULLUDISTRICT (HIMACHAL PRADESH) ON TURNKEY BASIS

BID No.: 17 - SS / ADB / HPPTCL / 220 kV GIS CHAROR Sub Station

ADB LOAN No.: 3001 – IND: HP Transmission
Proposed Himachal Pradesh Clean Energy Transmission Investment Program
(Tranche – 2)

FEBRUARY - 2016

General Manager (C&D)
HPPTCL, Shimla-5

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	FINANCIAL BID EVALUATION		
1	INTRODUCTION	1.	GENERAL
		1.1	The H. P. Power Transmission Corporation Ltd. has received a loan from the Asian Development Bank (ADB) to Finance the cost of construction of various Transmission Schemes in Himachal Pradesh, India. It is intended that part of the proceeds of this loan be used for eligible payments for the Supply of Material, Erection, Testing and Commissioning and related Technical Services for the Construction of 132/220 kV , GIS Sub Station at Charor in Kullu District of Himachal Pradesh, India, for which these Bids were invited. Single - Stage, Two - Envelopes Bidding Procedure has been followed for this procurement. The Invitation for Bids were published on7th Nov, 2014 in the two English Language Newspapers and one edition of Hindi Language Newspaper respectively .The Invitation for Bids was also posted on HPPTCL's Website and ADB website. Following Nine Bidders submitted their proposals on the due date i.e 22.04.2015 ;- 1. M/S Herodex Power System Nashik (Bidder-7) 2. M/S Stelmec Ltd. Mumbai (Bidder-2) 3. M/S Alstom T&D Noida (Bidder-3) 4. M/S TechnoFab Engineering Ltd. Faridabad (Bidder-4) 5. M/S Kanohar Electricals Meerut (Bidder-5) 6. M/SShyam Indus Solutions Pvt Ltd New Delhi (Bidder-6) 7. M/S Bajaj Electricals Ltd. Mumbai (Bidder-1) 8. M/S Blue Star Ltd Mumbai (Bidder-8) 9. M/S Toshiba T&D Systems, Medak ,Telangana (Bidder-9) In accordance with the Two Envelope (Single Stage) Bidding Procedure of ADB, the Technical Proposals of the above Bidders were evaluated and the Technical Bid Evaluation Report (TBER) dated 29.09.2015 was submitted to ADB with the recommendations to declare the all Nine Bidders as RESPONSIVE and open their Price proposals. ADB vide their Fax message dated **14.10.2015 (Annexure – 1)** approved the above recommendation as under: - ***"ADB has reviewed the TBER and we are pleased to advice you that ADB has no objection to considering the technical proposals of the following nine bidders as substantially responsive and opening of their financial bid.*** 1. M/S Herodex Power System Nashik (Bidder-7) 2. M/S Stelmec Ltd. Mumbai (Bidder-2) 3. M/S Alstom T&D Noida (Bidder-3) 4. M/S TechnoFab Engineering Ltd. Faridabad (Bidder-4) 5. M/S Kanohar Electricals Meerut (Bidder-5)

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			6. M/SShyam Indus Solutions Pvt Ltd New Delhi (Bidder-6) 7. M/S Bajaj Electricals Ltd. Mumbai (Bidder-1) 8. M/S Blue Star Ltd Mumbai (Bidder-8) 9. M/S Toshiba T&D Systems, Medak ,Telangana (Bidder-9) *All* the nine responsive Bidders were informed in writing on 14.10.2015 , about the decision and the date of opening of price proposals which was scheduled for 20.10.2015 at 11:30 Hrs.
		1.2	**OPENING OF PRICE PROPOSAL**
			The Price Proposals were opened at 11.30 Hrs. on 20.10.2015as scheduled, in the Chamber of General Manager (C & D), HPPTCL by the Bid Opening Committee, in the presence of representatives of the Bidders. The Bid Opening Committee examined the original envelopes containing Price Proposals of all the nine (9) Technically Responsive Bidders, which were kept under the safe custody of Dy. General Manager (Contracts). The Members of the Bid Opening Committee, after satisfying themselves and the representatives of respective Bidders that the envelopes had not been tampered with, opened the envelopes. Thereafter, the Bidders' Names, Bid Prices and Discounts offered were announced and recorded. The Record of Bid Opening was prepared soon after the Bids were announced. A copy of the Record of the Bid Opening is enclosed as **(Annexure -2)**
		1.4.	**BASIC DATA AND EXCHANGE RATES**
			The Currency for Bid Comparison is INDIAN RUPEES. The Exchange Rates used for the evaluation were the Bills Clearing (B. C.) Selling Market Rate of Exchange (MRE) established by the State Bank of India on 25thMarch, 2015 (28 days prior to the Date of Opening of Bid in Proposals)i.e. 1 US$= 62.46 INR.
		1.5	**BID EVALUATION COMMITTEE**
			A Financial Bid Evaluation Committee comprising the following officers of HPPTCL was formed vide letter No. HPPTCL/contracts/ADB/General/2014-15-418-25 dated 25.04.2014 **(Annexure-3)**:- a) General Manager (C & D) Chairman b) DGM & Head, Transmission Designs Member c) DGM (Finance) Member d) DGM (Projects) Member e) DGM (Contracts) Member The Committee's decisions have been made on the basis of unanimous views.

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2	EXAMINATION OFPRICE PROPOSALS	2.0	The Price Proposals submitted were first examined to ensure that the Bidders had submitted the Form of Bid and the Priced Bill of Quantities and whether these documents had been prepared properly and signed as stipulated in the Instructions to Bidders. Documents of all the nine Bidders were found to be in order as all Bid Documents were signed by the authorized person.
		2.1	**COMPARISON OF PRICE PROPOSALS**
			The comparative sheets of each Schedule as per the rates quoted by the Bidders were prepared and are exhibited in **Table-1 to Table No.-7.**
		2.2	**ARITHMETIC CHECK, CORRECTIONS AND CONVERSION TO LOCAL CURRENCY**
			Each Priced Bill of Quantities of the Bidders was checked for Arithmetic Errors. The errors were corrected in accordance with the stipulations in the Bidding Documents (ITB Clause 36). These Corrections, none of which were substantial, were tabulated and are shown in**Table-8** Summary of Bid Prices (Arithmetic Corrections and Corrected Bid Prices). Furthermore, to facilitate evaluation and comparison of Bids, the Bid Prices expressed in US Dollars was converted into Indian Rupees at the Selling Market Rate of Exchange (MRE) established by the State Bank of India on 25thMarch 2015, in accordance with the stipulations in the Bidding Documents (ITB Clause 37).
3	EVALUATION AND COMPARISON OFPRICE PROPOSALS	3.1	**EVALUATION OF PRICE PROPOSALS**
		3.1.1	**Bidder No.-1 (M/S Bajaj Electricals Ltd. Mumbai)**
		(i)	There were no deviations to payment terms, liquidated damages provisions and performance security. Thus, no price adjustments were required in this respect.
		(ii)	In case of Transformers, the capitalization charges are required to be taken into account for Price Bid comparison as per Cl. No. 1.2.8 (Performance Guarantees) Section-3 –Evaluation and Qualification Criteria) Vol-I of III. Accordingly, the bid of the firm has been loaded with the capitalization charges for the losses quoted by the firm in their technical proposal The amount of capitalization charges has been indicated in **Table-9.**
		iii)	There was an error in total of Schedule-2 same is corrected in Table-8 and reflected in table-10.
		iv)	The bidder has quoted the prices after including the Central Sales Tax in Schedule-1 & Schedule 2. Same are subtracted in table-10 by taking them as arithmetic error to maintain the equal status of all the bidders. Similarly, Bidder was silent about service tax on Schedule 5b (Training

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HPPTCL, Shimla-5

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			Charges in India) which were considered as inclusive. Same are subtracted in table-10 by taking them as arithmetic error.
		(v)	The EOT crane for Transformer Hall was deleted from scope of work but bidder has considered Price for EOT Crane, its Mandatory spares and erection & F&I charges for same. Same are corrected in table-8 and reflected in table-10
		vi)	Bidder has quoted price for Partial Discharge Monitoring System (UHF type) for considered quantity as NIL. Same is corrected in table-8 and reflected in table-10
		vii)	Schedule 4, item1 A (iii) Micro Gas Analyzer/On-Line DGA/PPM meter was deleted being a repetitive item through amendment. Bidder has quoted price for same, which is corrected in table-8 and reflected in table-10.
		viii)	The bidder has indicated in price bid that all items mentioned in SCH.-2 are B-OUT items. Therefore, sales is fixed and no variation shall be allowed.
		3.2.2	**Bidder No.-2** (M/S Stelmec Ltd. Mumbai)
		(i)	There were no deviations to payment terms, liquidated damages provisions and performance security. Thus, no price adjustments were required in this respect.
		(ii)	In case of Transformers, the capitalization charges are required to be taken into account for Price Bid comparison as per Cl. No. 1.2.8 (Performance Guarantees) Section-3 –Evaluation and Qualification Criteria) Vol-I of III. Accordingly, the bid of the firm has been loaded with the capitalization charges for the losses quoted by the firm in their technical proposal. The amount of capitalization charges has been indicated in Table-9.
		(iii)	The bidder has indicated in price bid that all items mentioned in SCH.-2 are B-OUT items. Therefore, sales Tax is fixed and no variation shall be allowed. The amount of sales Tax shall be included in the prices, while placing the award.
		(iv)	Item No11(iii)a & b ventilation and heating system for 220 KV & 132 KV system & item No. 29 (i),(ii) & (iii) (auxiliary bus bar , 220 KV & 132 KV Bus Duct) were added in BOM through amendment. Bidder has not quoted prices, installation & F&I charges for the same.The bidder during post bid clarifications confirmed that the price for above items are included in quoted bid price.
		(v)	The EOT crane for Transformer Hall was deleted from scope of work but bidder has considered Price for EOT Crane, its Mandatory spares and erection & F&I charges for same. Same are corrected in table-8 and reflected in table-10
		(vi)	Schedule 4, item1 A (iii) Micro Gas Analyzer/On-Line DGA/PPM meter was deleted being a repetitive item through amendment. Bidder has quoted price for same, which is corrected in table-8 and reflected in table-10.
		(vii)	Quantity for some of civil items i.e. schedule-4 civil works item no. 2 , 3, 4, 5b, 6,10,34b,35,36,37,59,74 was amended through amendment but bidder has not considered the same. Amount as per updated BOM

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		viii)	quantities are corrected in table-8 and reflected in table-10. The bidder has quoted prices inclusive of service Tax in Design services, installation & Civil works and Training charges in Schedule-3, SCH -4 and SCH. 5b respectively. Same are corrected in table-8 as arithmetic error and reflected in table-10
		3.2.3	**Bidder No.-3 (M/S Alstom T&D Noida)**
		(i)	There were no deviations to payment terms, liquidated damages provisions and performance security. Thus, no price adjustments were required in this respect.
		(ii)	In case of Transformers, the capitalization charges are required to be taken into account for Price Bid comparison as per Cl. No. 1.2.8 (Performance Guarantees) Section-3 –Evaluation and Qualification Criteria) Vol-I of III. Accordingly, the bid of the firm has been loaded with the capitalization charges for the losses quoted by the firm in their technical proposal. The amount of capitalization charges has been indicated in Table-9.
		(iii)	The bidder has quoted prices inclusive of service Tax in Installation & Services and Training charges in SCH.-4 and SCH. 5b respectively. Same are corrected in table-8 as arithmetic error and reflected in table-10
		(iv)	The bidder has indicated in price bid that items amounting to INR 31,89,09,868/- in SCH.-2 are B-OUT items. Therefore, sales Tax amount is fixed for that amount and no variation shall be allowed.
		v)	The firm has offered Discount of INR 3,13,08,443/- on quoted prices. Same is reflected in Table No. 10.
		3.2.4	Bidder No.-4 **M/S Technofab Engineering Ltd. Faridabad**
		i)	There were no deviations to payment terms, liquidated damages provisions and performance security. Thus, no price adjustments were required in this respect.
		ii)	In case of Transformers, the capitalization charges are required to be taken into account for Price Bid comparison as per Cl. No. 1.2.8 (Performance Guarantees) Section-3 –Evaluation and Qualification Criteria) Vol-I of III. Accordingly, the bid of the firm has been loaded with the capitalization charges for the losses quoted by the firm in their technical proposal. The amount of capitalization charges has been indicated in Table-9.
		iii)	Bidder has quoted price for Partial Discharge Monitoring System (UHF type), mandatory spares for rotor house bearing & bearing for three phase equipment, but considered quantities as NIL. Same are corrected in table-8 and reflected in table-10
		iv)	The bidder has indicated in price bid that all items mentioned in SCH.-2 are B-OUT items. Therefore, sales Tax amount is fixed and no variation shall be allowed.
		v)	The EOT crane for Transformer Hall was deleted from scope of work but the bidder has considered Mandatory spares for the same, which is corrected in table-8 and reflected in table-10
		vi)	The firm has offered 3.00 % Discount on quoted prices and the same is

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			reflected in Table No. 10.
		3.2.5	**Bidder No.-5** M/S Kanohar Electricals, Meerut
		i)	There were no deviations to payment terms, liquidated damages provisions and performance security. Thus, no price adjustments were required in this respect.
		ii)	In case of Transformers, the capitalization charges are required to be taken into account for Price Bid comparison as per Cl. No. 1.2.8 (Performance Guarantees) Section-3 –Evaluation and Qualification Criteria) Vol-I of III. Accordingly, the bid of the firm has been loaded with the capitalization charges for the losses quoted by the firm in their technical proposal. The amount of capitalization charges has been indicated in Table-9.
		iii)	The bidder has indicated in price bid that all items mentioned in SCH.-2 except transformers are B-OUT items. Therefore, sales Tax amount is fixed and no variation shall be allowed for all items except transformers.
		iv)	The EOT crane for Transformer Hall was deleted from scope of work but bidder has considered Mandatory spares for the same. Same are corrected in table-8 and reflected in table-10.
		v)	The bidder has quoted prices inclusive of service Tax in Installation & Services in SCH.-4. Same are subtracted in table-10 by considering them as arithmetic error.
		3.2.6	**Bidder No.-6 M/S Shyam Indus Solutions Pvt. Ltd New Delhi**
		i)	There were no deviations to payment terms, liquidated damages provisions and performance security. Thus, no price adjustments were required in this respect.
		ii)	In case of Transformers, the capitalization charges are required to be taken into account for Price Bid comparison as per Cl. No. 1.2.8 (Performance Guarantees) Section-3 –Evaluation and Qualification Criteria) Vol-I of III. Accordingly, the bid of the firm has been loaded with the capitalization charges for the losses quoted by the firm in their technical proposal. The amount of capitalization charges has been indicated in Table-9.
		iii)	The bidder has quoted prices inclusive of service Tax & VAT in Installation & Services in SCH.-4 and 14% Service Tax in SCH. 5b. Same are subtracted in table-10 by considering them as arithmetic error.
		iv)	Item No 29 (ii) & (iii) (220 KV & 132 KV Bus Duct) were added in BOM through amendment. Bidder has not quoted prices for the same. It is assumed that bidder has included prices for the same in total bid price quoted.
		v)	The bidder has indicated in price bid that all items mentioned in SCH.-2 are B-OUT items. Therefore, sales Tax amount is fixed and no variation shall be allowed.
		3.2.7	**Bidder No.-7 M/S Herodex Power System, Nashik**
		i)	There were no deviations to payment terms, liquidated damages provisions and performance security. Thus, no price adjustments were required in this

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			respect.
		ii)	In case of Transformers, the capitalization charges are required to be taken into account for Price Bid comparison as per Cl. No. 1.2.8 (Performance Guarantees) Section-3 –Evaluation and Qualification Criteria) Vol-I of III. Accordingly, the bid of the firm has been loaded with the capitalization charges for the losses quoted by the firm in their technical proposal. Firm has not quoted the losses for station transformer so highest losses among all taken into account which is of M/S Stelmec Ltd. The amount of capitalization charges has been indicated in **Table-9.**
		iii)	The firm has quoted Erection & F&I charges for M.S Electrode (35 mm Dia) for earth Mat & associates for 100 Kg against requirement of 1000 Kg in Schedule - 4. Accordingly the value has been corrected and is reflected in **Table-8.**
		iv)	The firm has offered 17.50 % Discount on quoted prices and the same is reflected in Table No. 10.
		v)	The bidder has declared all electrical indigenous items (all items in SCH.-2) as B-OUT items. Therefore, sales Tax amount is fixed and no variation shall be allowed.
		3.2.8	Bidder No.-8 **M/S Blue Star Ltd Mumbai**
		i)	There were no deviations to payment terms, liquidated damages provisions and performance security. Thus, no price adjustments were required in this respect.
		ii)	In case of Transformers, the capitalization charges are required to be taken into account for Price Bid comparison as per Cl. No. 1.2.8 (Performance Guarantees) Section-3 –Evaluation and Qualification Criteria) Vol-I of III. Accordingly, the bid of the firm has been loaded with the capitalization charges for the losses quoted by the firm in their technical proposal. Firm has not quoted the losses for station transformer so highest losses among all taken into account which is of M/S Stelmec Ltd. The amount of capitalization charges has been indicated in Table-9
		iii)	The bidder has declared all electrical indigenous items (all items in SCH.-2) as B-OUT items. Therefore, sales Tax amount is fixed and no variation shall be allowed.
		3.2.9	**Bidder No.-9 (M/S Toshiba T&D Systems, Medak ,Telangana)**
		i)	There were no deviations to payment terms, liquidated damages provisions and performance security. Thus, no price adjustments were required in this respect.
		ii)	In case of Transformers, the capitalization charges are required to be taken into account for Price Bid comparison as per Cl. No. 1.2.8 (Performance Guarantees) Section-3 –Evaluation and Qualification Criteria) Vol-I of III. Accordingly, the bid of the firm has been loaded with the capitalization charges for the losses quoted by the firm in their technical proposal. The amount of capitalization charges has been

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		iii)	indicated in Table-9. The bidder has declared all electrical indigenous items (all items in SCH.-2) as B-OUT items. Therefore, sales Tax amount is fixed and no variation shall be allowed.
		3.2	**COMPARISON OF PRICE PROPOSALS AND DETERMINATION OF THE LOWEST EVALUATED BID**
			The Arithmetically Corrected Bid Prices as discussed in paragraph 3.1 above are summarized in Table-10, Bid Price Comparison. As per comparison, the lowest evaluated Substantially Responsive Bid is that submitted by Bidder No. -7 (M/S Herodex Power System Nashik).The Total Evaluated Bid Price works out to be INR 65,06,39,928including loadings as explained in Para 3.1.1.
		3.3	**STATUS OF BIDDERS** The corrected bid prices and ranking of the Bidders, after considering , Loading of Guaranteed losses on Transformers and Discount offered, as exhibited in Table -10 is as under :-

Bidder No.	Name of Bidder	Corrected Bid Price (INR)	Ranking	Variation (%)
1	M/S Bajaj Electricals Ltd. Mumbai	83,02,09,836	7	27.60 %
2	M/S Stelmec Ltd. Mumbai	66,04,28,354	2	1.51 %
3	M/S Alstom T&D Noida	87,42,30,097	8	34.37 %
4	M/S Technofab Engineering Ltd. Faridabad	69,65,11,030	3	6.23 %
5	M/S Kanohar Electricals Ltd. Meerut	73,91,82,118	4	13.62 %
6	M/S Shyam Indus Solutions Pvt. Ltd. New Delhi	81,82,44,589	6	25.76 %
7	M/S Herodex Power System Pvt. Ltd. Nashik	65,06,39,921	1	------
8	M/S Blue Star Ltd. Mumbai	87,70,67,672	9	34.81 %

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			9	M/S Toshiba T&D System (India) Pvt. Ltd.	77,43,35,382	5	19.01 %

		3.4	**REASONABLENESS OF PRICE OF THELOWEST EVALUATED BID:-**
			The total DPR cost of the project amounting to INR 71.00 Crores contained a provision of INR 52.57 Crores for supply and erection of equipment for which the bids are invited. Bidder No. 7, at the corrected price of INR 61,00,60,411/- (excluding capitalisation charges for Transformer losses) is approximately 16.04 % higher than Executing Agency's estimate of INR 52.57 Crores. The main reasons for this increase is the provision of additional items such as 3 single phase transformers instead of one three phase transformer, Arrangement to connect existing spare transformer with proposed transformer bank,220 kV GIS Bus duct ctc. amounting to INR 10.44 Crores Approximately. Apart from above, the DPR is based on the rates for the year 2012-13. Hence, after considering price escalation @ 14% for the two years on the DPR cost, the price quoted by the Bidder No. 7, M/S Herodex Power System Pvt. Ltd. Nashik, the lowest evaluated bidder, have been considered reasonable.
4	**BID VALIDITY**		The bids validity is 240 day from the date of opening of bid i.e. up-to ***18.12.2015***, which has been further extended by the lowest three bidders up-to **15.02.2016.** Further, extension of bid validity upto 15.04.2016 has been sought.
5	**DETAIL OF SCHEDULE WISE AMOUNT**		On the basis of the systematic evaluation of Bids, which had been carried out in accordance with the provisions of the Bidding Documents, it is concluded that Bidder No. 7(M/S Herodex Power System Pvt. Ltd. Nashik) has submitted the Lowest Evaluated Substantially Responsive Bid. The detail of amount quoted in each schedule is given below : The Contract Amount shall be as shown below:

S.No	Description	USD	INR
1	Plant and Mandatory Spares Parts to be supplied from Abroad	28,85,833	Not applicable
2	Plant and Mandatory Spares Parts to be supplied from within Employer's Country	NA	33,89,48,613
3	Design Services	NA	36,00,000
4	Installation and other Services	NA	21,52,75,708
5	Training Charges	18,000	2,50,000
6	Sub- Total (1+2+3+4+5)	**29,03,833**	**55,80,74,321**
7	Arithmetic Error	00	19,427
8	Sub-Total (6+7)	**29,03,833**	55,80,93,748

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			9	Discount (17.50%)	5,08,171	9,76,66,406
			10	Net evaluated Bid Price (8-9)	**23,95,662**	46,04,27,342
			11	Conversion Rate as on 25.03.2015 is 1$= 62.46 INR	**14,96,33,063**	---
			12	**Corrected Bid Price(13-14)**	61,00,60,405	
			The above prices are Fixed. Taxes such as CST, Service Tax, Entry Tax/Octroi, as applicable shall be paid as per actual against documentary proof.			
6	**CONCLUSIONS ANDRECOMMENDATIONS**		On the basis of discussion brought out in preceding paras and evaluation criteria , M/S Herodex Power System Pvt. Ltd. Nashik(Bidder No.-7) has been found to be successful bidder for the construction of 33/132/220 KVGIS Sub Station at Charor . It is, therefore, recommended that :- The Contract for the Construction of 33/132/220 KV, GIS Sub Station at Charor in Kullu District of Himachal Pradesh, India, be awarded to ***M/S Herodex Power System Pvt. Ltd. Nashik*** at the Bid Price of ***USD* 23,95,662 + *INR46,60,19,987* (46,04,27,342 + INR 55,92,645 Sales tax on Bought out Items)** It is also recommended that the Asian Development Bank approves the award and notifies the EA of its approval at the earliest so as to enable HPPTCL to place order on the above successful Bidder. 10/03/16 **AGM (Contracts)**		

General Manager (C&D)
HPPTCL, Shimla-5

2·A·13

Annexure - 1.

ADB

Asian Development Bank

FAX

South Asia Department
Energy Division
6 ADB Avenue, Mandaluyong City
1550 Metro Manila, Philippines
Tel (632) 632-4444
Fax (632) 636-2338

To:	Mr. Harish Kapoor, Deputy General Manager (Contracts) H.P. Power Transmission Corporation Ltd. (HPPTCL), Shimla, Himachal Pradesh, India	Date: Fax:	14 October 2015 +91-177-262-6284
Originator:	Takeshi Shiihara Portfolio Management Specialist Energy Division, South Asia Department		

Subject: Loan 3001-IND: Himachal Pradesh Clean Energy Transmission Investment Program (HPCETIP) – Project 2
- Technical Bid Evaluation Report (TBER) on
Package 17 – SS / ADB / HPPTCL / 220kV GIS Charor Substation

Dear Mr. Kapoor,

1. We refer to your e-mail of 29 September 2015, enclosing the Technical Bid Evaluation Report (TBER), for the above contract package.

2. ADB has reviewed the TBER and we are pleased to advise you that ADB has no objection to considering the technical proposals of the following nine bidders as substantially responsive and opening of their financial bids:

(1) M/S Bajaj Electricals Ltd. Mumbai, India, in Joint Venture (JV) with Pinggao Group Co. Ltd., P.R. China
(2) M/S Stelmec Ltd., Mumbai, India, in JV with Chint Electrical Co. Ltd., Shanghai, China,
(3) M/S Alstom T&D, Noida, India,
(4) M/S Technofab Engineering Ltd. New Delhi, India, in JV with Sieyuan Electric Co. Ltd., Shanghai, China,
(5) M/S Kanohar Electricals Meerut, India, in JV with Chung Hasin Electrical & Machinery, Guishan, Taiwan,
(6) M/S Shyam Indus Power Solutions, New Delhi, India, in JV with New Northeast Electric Group HV Switchgear Co., Ltd., China,
(7) M/S Herodex Power System, Nashik, India, in JV with Talan Talshan HV Switchgear, China,
(8) M/S Blue Star Ltd., Mumbai, India, in JV with Hyosung Corporation Ltd., Korea, and
(9) M/S Toshiba T&D Systems, Medak, Telangana, India

Sincerely yours,

Anthony Cuee
Director, Energy Division
South Asia Department

cc: Managing Director, HPPTCL (+91-177-2626284)
Country Director, INRM; H. Kobayashi, A. Jeffries & S. Kurimoto, SAEN
SAEN File

General Manager (C&D)
HPPTCL, Shimla-5

2.A.19

Annexure – 2.

H.P. POWER TRANSMISSION CORPORATION LIMITED
(A State Government Undertaking)
BAROWALIA HOUSE, KHALINI, SHIMLA-2
Ph:-0177-2626784, FAX :0177-2626284 , 2820227

No. HPPTCL/ Contracts/ADB/220 kV GIS CHAROR/-2015 dated 20/10/2015

To

Mr. Takeshi Shihara
Portfolio Management specialist,
Energy Division, South Asia Division
Asian Development Bank,
Manila, Philippines

Subject:- **Loan No.3001 IND:-ADB funded Tender No: - *17 – SS / ADB / HPPTCL / 220 kV GIS CHAROR*** Sub- Station for "Design, Engineering, Manufacture, Fabrication, Testing at Manufacturer's Works, Transportation to site, Insurance, Storage, Erection, Testing and Commissioning of 33/132/220kV GIS Sub-Station at Charor on Turnkey Basis in Distt. Kullu (HP), INDIA –**Opening of Price Bids**

The Price Bids of the following firms for the subject cited work were opened on 20.10.2015 at 11.30 Hrs.

1. M/S Bajaj electrical Ltd. Mumbai
2. M/S Stelmec Ltd.Mumbai.
3. M/S ALSTOM T&D India Ltd.Noida.
4. M/S Technofab Engineering Ltd. Faridabad
5. M/S Kanohar Electricals Ltd. Meerut
6. M/S Shyam Indus Solutions Pvt. Ltd. New Delhi
7. M/S Herodex Power System Pvt. Ltd. Nasik
8. M/S Blue Star Ltd. Mumbai
9. M/S Toshiba T&D System (India)Pvt. Ltd. Telangana

A copy of record of bid opening and attendance sheet is attached for reference please.

Thanking you and with regard.

Encl :- As above

Yours faithfully,

20/10/15

Dy. General Manager (Contracts)

CC for information to the following :-

1. Mr. Andrew Jeffries, Senior Energy specialist, Energy Division, South Asia Department, Manila
2. Mr. Hiroki Kobayashi, Sr. Energy Specialist
3. Mr. Rajat Jain, ADB Consultant

General Manager (C&D)
HPPTCL, Shimla-5

2.A'15

H.P. POWER TRANSMISSION CORPORATION LIMITED
(A State Government Undertaking)
BAROWALIA HOUSE, KHALINI, SHIMLA-2
Ph.-0177-2626784, FAX.-0177-2626284, 2620227

RECORD OF PRICE BID OPENING

Loan No	3001 -IND Himachal Pradesh Clean Energy Transmission Investment Programme-Tranche-2	Project Title	Himachal Pradesh Clean Energy Transmission Investment Programme-Tranche-2
Bid No	***17 – SS / ADB / HPPTCL / 220 kV GIS CHAROR***	Bid Title	'Design, Engineering, Manufacture Fabrication, Testing at Manufacturer's Works, Transportation to site, Insurance Storage, Erection, Testing and Commissioning of 33/132/220kV GIS Sub-Station at Charor on Turnkey Basis (Complete Package).
Place	HPPTCL Corporate Office, Shimla	Date	*20.10.2015*

1. The following Bids were received by the closing time i.e. 15:00 Hrs. on 22.04.2015 and Technical Bids were Publically opened and read at 15.30 Hrs. on the same date :

S.No	Bidder's Name & Address
1	M/S Bajaj electrical Ltd. Mumbai
2	M/S Stelmec Ltd.Mumbai
3	M/S ALSTOM T&D India Ltd Noida
4	M/S Technofab Engineering Ltd. Faridabad
5	M/S Kanohar Electricals Ltd. Meerut
6	M/S Shyam Indus Solutions Pvt. Ltd. New Delhi
7	M/S Herodex Power System Pvt. Ltd. Nasik
8	M/S Blue Star Ltd. Mumbai
9	M/S Toshiba T&D System India)Pvt. Ltd. Telangana

2. The outer envelopes of Price Bids were initialled by the Tender Opening Committee and were marked as "**Not Opened On Dated: 22-04-2015**". The unopened Price Bids were kept under safe custody.

General Manager (C&D)
HPPTCL, Shimla-5

2.A'16

ATTENDANCE SHEET FOR BID OPENING

Loan No	3001 - IND Himachal Pradesh Clean Energy Transmission Investment Programme-Tranche-2	Project title	Himachal Pradesh Clean Energy Transmission Investment Programme-Tranche-2
Bid No	*17 – SS / ADB / HPPTCL / 220 kV GIS CHAROR*	Bid Title	Design, Engineering, Manufacturing, Fabrication, Testing at Manufacturer's Works, Transportation to site, Insurance, Storage, Erection, Testing and Commissioning of 33/132/220kV GIS Sub-Station at Charor on Turnkey Basis (Complete Package)
Place	HPPTCL Corporate Office Shimla	Date	*20.10.2015*

The Following Bidders representatives attended the Bid Opening -

Bidder No	Bidders	Representative		Signature
		Name	Designation	
1	M/S Bajaj electrical Ltd. Mumbai	—	—	
2	M/S Stelmec Ltd Mumbai	KAUSHAL KR	MANAGER MARKETING	
3	M/S ALSTOM T&D India Ltd Noida	Sandeep Tyagi	Deputy Manager	
4	M/S Technofab Engineering Ltd. Faridabad	Rakesh Kumar	Asst Manager	
5	M/S Kanohar Electricals Ltd. Meerut	U.S Niranjan	Sales-Mgr.	
6	M/S Shyam Indus Solutions Pvt. Ltd. New Delhi	Amit Sharma	GM	
7	M/S Hindex Power System Pvt. Ltd. Nasik	Dattatray Chavan	Area Manager	
8	M/S Blue Star Ltd. Mumbai	Mandar Kanitkar	Sr. Manager	
9	M/S Toshiba T&D System India Pvt. Ltd. Telangana	Gaurav Arora	Asst Manager	

General Manager (C&D)
HPPTCL, Shimla-5

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3. The ADB Procurement Committee after reviewing the TBER conveyed their approval and allowed to open the Price Bids of all responsive Bidders, vide its FAX dated 14-10-2015

4. Accordingly, the opening of Price Bids was scheduled on 20-10-2015 at 11.30 AM and all responsive Bidders were intimated to be present if they wish to attend.

5. Bidders' representatives as per attendance sheet attached attended the public opening of bids (Financial Part)

6. The Price Bids of following responsive Bidders were opened on dated 20-10-2015 at 11.30 AM in the presence of representatives of the Firms and the Quoted Price for the complete package is as under -

Sr. No.	Bidder's Name & Address	Quoted Price	Discount offered
1	M/S Bajaj electrical Ltd. Mumbai		
2	M/S Stelmec Ltd Mumbai		
3	M/S ALSTOM T&D India Ltd Noida		
4	M/S Technofab Engineering Ltd. Faridabad		
5	M/S Kanohar Electricals Ltd. Meerut		
6	M/S Shyam Indus Solutions Pvt. Ltd. New Delhi		
7	M/S Herodex Power System Pvt. Ltd. Nasik		
8	M/S Blue Star Ltd. Mumbai		
9	M/S Toshiba T&D System India)Pvt. Ltd. Telangana		

7. Reading and signing of documents ended at 12:30 Hrs.

(Harish Kapoor)
AGM (Contracts)
HPPTCL, Shimla

(Amrit Chauhan)
DGM (Finance)
HPPTCL, Shimla

(Vineet Sharma)
DGM (Legal Affairs)
HPPTCL, Hamirpur

(Kaushlesh Kapoor)
AGM (Projects)
HPPTCL, Shimla

(V.P.Singh)
Design General Manager (C & D)
HPPTCL, Shimla

General Manager (C&D)
HPPTCL, Shimla-5

2.A.18

Annexure-3

H.P. POWER TRANSMISSION CORPORATION LIMITED
(A State Government Undertaking)
BAROWALIA HOUSE, KHALINI, SHIMLA-2
Ph:-0177-2626784, FAX:-0177-2626284, 2620227

OFFICE ORDER

A committee comprising of the following is hereby constituted to open and evaluate the Technical and Price Bids against all ADB Funded Tender Documents:-

1) General Manager (C & D), HPPTCL, Shimla — Chairman
2) Dy. General Manager & Head Transmission HPPTCL, Hamirpur, — Member
3) Dy. General Manager (Finance),HPPTCL, Shimla — Member
4) Dy. General Manager (Projects),HPPTCL, Shimla — Member
5) Dy. General Manager (Contracts), HPPTCL, Shimla — Member

Director (Planning & Contracts) 25/4/14.

No:- HPPTCL/Contracts/ ADB/General / 2014-15- 418-25 Dated: 25/4/14

Copy forwarded to the following:-

1. The P.S to Managing Director HPPTCL, Shimla for information please.
2. The Director (Projects), HPPTCL, Shimla for information please.
3. All the above members for information and necessary action please.
4. Sr. Manager (Contracts-1), HPPTCL, Shimla for information and necessary action please.

Director (Planning & Contracts) 25/4/14

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General Manager (C&D)
HPPTCL, Shimla-5

2.A.19

BASIC DATA SHEET

1	Project Title	*Himachal Pradesh Clean Energy Transmission Investment Program – Tranche - 2*
2	Loan Number	*3001 – IND*
3	Bid Title	*Procurement of 33/132/220 kV ,GIS Pooling Substation at Charor- Kullu District of Himachal Pradesh(India)*
4	Bid Number	*17 – SS / ADB / HPPTCL / 220kV GIS Charor Sub Station*
5	Estimated Value	*INR 710.00 Million*
6	Date of Invitation for Bids Issued/ Date of Publication	*7th November, 2014 / 8th November, 2014*
7	Mode of Procurement	*International Competitive Bidding; Single - Stage, Two - Envelope Bidding Procedure*
8	Bid Closing Date and Time	*03:00 PM on 22nd April2015*
9	Bid Opening Date and Time	*03:30 PM on 22nd April 2015*
10	Number of Bids Received	*Nine(9) Bids*
11	Bid Validity Expires	*18thDecember 2015 (240 days) extended up-to 15th February 2016*
12	Date for Determining Applicable Exchange Rates	*25.03.15 (ITB-Section -2, Clause 37.1)*

General Manager (C&D)
HPPTCL, Shimla-5

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SCHEDULE-6 (GRAND SUMMARY)

Table-1

TENDER DOCUMENT No.: 17 - SS / ADD / HPPTCL / 220 KV GIS CHAROR

BILL OF MATERIAL REQUIRED FOR 132/220 KV GIS SUB-STATION AT CHAROR

COMPARATIVE STATEMENT

Sr. No	Sche dule No	Description	M/S Hyosung Power System Pvt. Ltd. Noida (U1)		M/S BTL/HSC LTD. MUMBAI (U2)		M/S ALTOM T&D. NOIDA (U3)		M/S Technofab Engineering Ltd Faridabad (U4)		M/S Hannhar Electricals Ltd Meerut (U5)		M/S Siyash Indus Solutions Pvt. Ltd. New Delhi (U6)		M/S RAJUL ELECTRICALS LTD. MUMBAI (U7)		M/S Blue Star Ltd. Mumbai (U8)		M/S Toshiba T&D System (India) Pvt. Ltd. Hedra, Telangana (U9)	
			Foreign Currency	Local Currency	Foreign Currency	Local Currency	Foreign Currency	Local Currency	Foreign Currency	Local Currency	Foreign Currency	Local Currency	Foreign Currency	Local Currency	Foreign Currency	Local Currency	Foreign Currency	Local Currency	Foreign Currency	Local Currency
			USD	INR	USD	INR	USD	INR	USD	INR	USD	INR	USD	INR	USD	INR	USD	INR	USD	INR
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	1	Plant and Mandatory Spare Parts Supplied from Abroad	28,85,533	NA	27,31,366	NA	NA	NA	35,02,880	NA	47,56,733	NA	33,27,000	NA	42,00,140	NA	58,85,336	NA	NA	NA
2	2	Plant and Mandatory Spare Parts Supplied from within the Employer's Country	NA	33,99,48,613	NA	37,32,74,956	NA	72,18,54,903.84	NA	29,92,26,156.00	NA	23,56,08,539.92	NA	43,31,05,757.06	NA	26,72,61,138	NA	27,64,79,721.21	NA	52,20,10,865.45
3	3	Design Services	NA	50,00,000	NA	25,00,000	NA	INCLUDED	NA	85,12,204.28	Included	Included	NA	Included	NA	6,30,189	NA	45,88,31,457.85	INCLUDED	INCLUDED
4	4	Installation and Other Services	NA	21,92,75,758	NA	15,25,00,000	NA	15,51,42,826.33	NA	15,24,41,396	NA	29,20,15,852.46	NA	15,98,03,440.75	NA	23,70,92,587	NA	NA	NA	16,67,10,338
5	5a	Charges for Training to be imparted Abroad	10,000	NA	NA	8,00,000	NA	NA	12,420.80	NA	NA	NA	44,000	NA	70,332	NA	21,143	NA	NA	NA
6	5b	Charges for Training to be imparted in India	NA	2,50,000	NA	5,00,000	NA	33,10,016.11	NA	40,79,583.60	NA	NA	NA	10,83,000	NA	20,70,660	NA	3,85,000	NA	40,50,000
7		GRAND TOTAL OF THE SS	29,03,533	55,89,74,371	3031399	43,10,84,520		88,01,68,146.26	35,15,317.68	45,16,90,884.88	47,56,733	52,99,44,128.38	33,68,660	59,01,52,362.81	42,73,990	52,71,25,862	58,06,679	46,47,16,188.30		72,87,60,631.45

Dy. General Manager (Contracts)
H.P. Power Transmission Corpn. Ltd.
Barowalia House, Khalini, Shimla-2

Grand summary Sd 1

General Manager (C&D)
HPPTCL, Shimla-5

2.A.21

SCHEDULE-I (Plant & Mandatory Spares Parts Supplied from Abroad) | Table-3b

TENDER DOCUMENT No.: 17 - 53 / AGB / HPPTCL / 220 KV GIS CHAROR

BILL OF MATERIAL REQUIRED FOR 132/220 kV GIS SUB-STATION AT CHAROR

COMPARATIVE STATEMENT

Sr. No.	Description of Equipment / Material	Qty/Unit	M/S Kanohar Electricals Ltd. Meerut (B5)					M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (B6)					M/S BAJAJ ELECTRICALS LTD. MUMBAI (B1)					M/S Bliss Star Ltd. Mumbai (B4)					M/S Toshiba T&D System (B9)
			Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	
					Foreign Currency	CIF				Foreign Currency	CIF				Foreign Currency	CIF				Foreign Currency	CIF		
1	2	3	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	
2	220KV GIS EQUIPMENTS																					0	
I	BUS BARS MODULE	2 Set	2	CHINA	USD	2,41,724	4,83,448	2	China	USD	1,32,600	2,65,200	2	CHINA	USD	3,72,919	7,45,839	2	Korea	USD	1,39,796	2,79,592	
	245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, Single Phase (Isolated)/Three Phase encapsulated Unit, SF_6 Gas Insulated, Metal enclosed Bus Bars, Bus Enclosure running along the length of the Switchgear to interconnect each of the Circuit Breaker Bay Module in Double Main Bus System. Each Phase shall be complete with Inductive Voltage Transformers (VTs) complete with Isolator / Disconnector cum Earth Switches and Safety Grounding Switch all Complete with Manual and Motor Driven Operating Mechanisms, LCC (if required), GIS Duct with SF_6 Gas Monitoring System and Accessories etc complete in all respects						0					0					0					0	
II	BUS COUPLER BAY MODULE	2 Set	2	CHINA	USD	2,88,115	5,76,230	2	China	USD	1,57,400	3,14,800	2	CHINA	USD	4,20,791	8,41,582	2	Korea	USD	3,32,713	6,65,426	
	245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF_6 Gas Insulated Bus Coupler Bay Module comprising of SF_6 Gas Insulated Circuit Breaker (4,000 A), Current Transformers (Ratio 1600-800 / 1 - 1 - 1 - 1 - 1 - 1 A_s), Bus Bar Isolator / Disconnector Switches (4,000 A) combined with Safety Grounding Switches complete with one Manual and Motor Driven Operating Mechanism, Local Control Cubicle LCC (if required), GIS Duct with SF_6 Gas Monitoring System and Accessories etc complete in all respects						0					0					0					0	
III	TRANSFORMER CIRCUIT BREAKER BAY MODULE	1 Set	1	CHINA	USD	4,83,448	4,83,448	1	China	USD	2,70,100	2,70,100	1	CHINA	USD	3,30,261	3,30,261	1	Korea	USD	6,33,821	6,33,821	
	245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF_6 Gas Insulated Transformer Circuit Breaker Bay Module each comprising of SF_6 Gas Insulated Circuit Breaker (4,000 A), Current Transformers (Ratio: 800 - 400 / 1 - 1 - 1 - 1 - 1 A), Isolator / Disconnector Switches (4,000 A) combined with Safety Earth Switch complete with Manual and Motor Driven Operating Mechanisms, Local Control Cubicle (if required) SF_6 Gas Monitoring System for complete Bay, Single Phase SF_6 Ducts and Gas Insulated Terminal Connection (SF_6 / Air Interface alongwith all Accessories) for connecting 25.9/30/4.08/42.6 MVA, single phase bank of 33/132/220KV, Auto Transformers with 220 kV GIS through Gas Insulated Interconnection Bus and Accessories etc complete in all respects						0					0					0					0	
IV	TRANSMISSION LINE FEEDER BAY MODULE	2 Set	2	CHINA	USD	4,49,263	8,98,530	2	China	USD	4,63,800	9,27,600	2	CHINA	USD	2,34,517	4,69,036	2	Korea	USD	4,59,138	9,18,276	

General Manager (C&D)
HPPTCL, Shimla-5

2.A.22

Sr. No.	Description of Equipment / Material	Qty/Unit	M/S Kanohar Electricals Ltd. Meerut (B5)					M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (B6)					M/S BAJAJ ELECTRICALS LTD. MUMBAI (B1)					M/S Elive Star Ltd. Mumbai (B8)					M/S Toshiba T&D System (B9)
			Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	
					Foreign Currency	CIF				Foreign Currency	CIF				Foreign Currency	CIF				Foreign Currency	CIF		
1	2	3	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	
	245 kV, 2000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF_6 Gas Insulated Transmission Line Feeder Bay Module each comprising of SF_6 Gas Insulated Circuit Breaker (2000 A), Current Transformers (Ratio - 2000-1000/1-1-1-1-1-1 A), Isolator / Disconnectors (2000 A) Switches with combined Earth Switch complete with Manual and Motor Driven Operating Mechanism, High Speed Fault Making Grounding Switch complete with gang operated Manual and Motor Driven Operating Mechanism, Local Control Cubicle (if required), SF_6 Gas Monitoring System for complete Bay, GIS Duct and Air / SF_6 Bushing Termination Enclosure and Accessories etc complete in all respects						0					0					0					0	
v	245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, Single Phase (Inverted)/Three Phase encapsulated Unit, SF_6 Gas Insulated, Metal enclosed Bus Bars Air to SF6 Bushing and accessories etc complete in all respects to connect HPPTCL 220KV GIS Bus with 220KV ASS Bus of Everest Sub Station	1 Set	1	CHINA	USD	62,567	62,567	39	China	USD	2,550	85,500	1	CHINA	USD	1,28,774	1,28,774	1	Korea	USD	3,69,693	3,69,693	
3	132 KV GIS EQUIPMENT						0					0										0	
i	BUS BARS MODULE	2 Sets	2	CHINA	USD	70,964	1,51,928	2	China	USD	71,400	1,42,800	2	CHINA	USD	2,62,437	4,64,874	2	Korea	USD	1,26,465	2,52,930	
	145 KV, 2000 A, Short Circuit Current Rating of 40 kA for 3.0 seconds, 3 single phase (sealed)/Three Phase Unit, SF_6 gas insulated, metal enclosed bus bars each enclosed in bus enclosures running along the length of the switchgear to interconnect each of the circuit breaker bay module in Double Main Bus System. Each bus bar arc shall be complete with Voltage Transformers (VT's) complete with isolator / disconnector cum earth switches and safety grounding switch all complete with manual and motor driven operating mechanism, LCC (if required), GIS Duct with SF_6 gas monitoring system and accessories etc complete in all respects						0					0					0					0	
ii	BUS COUPLER BAY MODULE	3 Set	2	CHINA	USD	1,49,551	2,99,102	2	China	USD	76,000	1,52,000	2	CHINA	USD	1,12,977	2,25,954	2	Korea	USD	2,29,648	4,59,297	
	145KV, 2000 A, Short Circuit Current Rating of 40 kA for 3.0 seconds SF_6 gas insulated bus coupler bay module consisting of SF_6 gas insulated circuit breaker (2000 A), current transformers (Ratio 2000 -1600 / 1-1-1-1-1-1 A), bus bar isolator / disconnector switches (2000 A) combined with safety grounding switches complete with one manual and motor driven operating mechanism, local control cubicle LCC (if required), GIS Duct with SF_6 gas monitoring system and accessories etc complete in all respects						0					0					0					0	
iii	TRANSFORMER CIRCUIT BREAKER BAY MODULE	1 Set	1	CHINA	USD	3,28,403	3,28,403	1	China	USD	1,51,200	1,51,200	1	CHINA	USD	1,12,977	1,12,977	1	Korea	USD	2,62,409	2,62,409	

General Manager (C&D)
HPPTCL, Shimla-5

2.A.23

Sr. No.	Description of Equipment / Material	Qty/Unit	M/S Kanohar Electricals Ltd. Meerut (B5)					M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (B6)					M/S BAJAJ ELECTRICALS LTD. MUMBAI (B1)					M/S Blue Star Ltd. Mumbai (B4)					M/S Toshiba T&D System (B9)
			Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price BSD)	
					Foreign Currency	CIF				Foreign Currency	CIF				Foreign Currency	CIF				Foreign Currency	CIF		
1	2	3	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	
	145 kV, 1200 A, Short Circuit Current Rating of 40 kA for 3 0 seconds, SF_6 gas insulated transformer circuit breaker bay module each comprising of SF_6 gas insulated circuit breaker (1200 A) current transformers (Ratio:1200-600/1-1-1-1-1 A), isolator / disconnector switches (1250 A) combined with safety earth switch complete with manual and motor driven operating mechanisms, local control cubicle (if required) SF_6 gas monitoring system for complete bay, single phase SF_6 ducts, size GIS / GI (subject to current 25.0/50.0/63.0 kA) single phase 33/ 132/220kV , auto transformers and accessories etc complete in all respects.						0					0					0					0	
iv	TRANSMISSION LINE FEEDER BAY MODULE	2 Sets	2	CHINA	USD	2,24,022	4,48,044	2	China	USD	1,22,150	2,44,300	2	CHINA	USD	1,10,583	2,21,166	2	Korea	USD	4,51,739	9,03,478	
	145 kV, 2000 A, Short Circuit Current Rating of 40 kA for 3 0 seconds, SF_6 Gas Insulated Transmission Line Feeder Bay Module each comprising of SF_6 Gas Insulated Circuit Breaker (2000 A) Current Transformers (Ratio:1600-800/1-1-1-1-1 A), Isolator / Disconnectors (2000 A) Switches with combined Earth Switch complete with Manual and Motor Driven Operating Mechanisms, High Speed Fault Making Grounding Switch complete with group operated Manual and Motor Driven Operating Mechanism, Local Control Cubicle (if required), SF_6 Gas Monitoring System for complete Bay, GIS Duct and Air / SF_6 Bushing Termination Enclosure and Accessories etc complete in all respects						0					0					0					0	
v	145 kV, 2000 A, Short Circuit Current Rating of 40 kA for 3 0 seconds, Single Phase (Isolated)/Three Phase unsegregated Unit, SF_6 Gas Insulated, Metal enclosed Bus Bars, Air to SF6 Bushing and accessories etc complete in all respects to connect HPPTCL 132KV GIS Bus with 132KV AIS Bus of Everest Sub Station.	1 Set	1	CHINA	USD	61,530	61,530	30	China	USD *	1,250	37,500	1	CHINA	USD	1,08,190	1,08,190	1	Korea	USD	86,258	86,258	
8	TESTING AND MAINTENANCE EQUIPMENTS																					0	
i	Partial Discharge Monitoring System (UHF type)	1 Set																1	Korea	USD	1,55,076	1,55,076	
ii	Circuit Breaker Operational Analyzer	1 Set																1	Korea	USD	92,893	92,893	
iii	Digital Manometer	1 Nos.																1	Korea	USD	3,709	3,709	
iv	Micro Ohm Meter Portable Type suitable for measuring Contact Resistance of High Voltage Equipment	1 Set																1	Korea	USD	11,127	11,127	
v	On Line DC Earth Fault Locator with Battie Charger and Rechargeable Batteries	1 Set																1	Korea	USD	3,719	3,719	
vi	Automatic Capacitance and Tan Delta (%) Kit	1 Set																1	Korea	USD	5,313	5,313	
vii	Automatic Turn Ratio Tester	1 Set																1	Korea	USD	5,313	5,313	
viii	DC Winding Resistance Kit	1 Set																1	Korea	USD	5,313	5,313	
ix	Primary Current injection Set	1 Set																1	Korea	USD	10,625	10,625	
x	Circuit Breaker Time Analyzer	1 Set																1	Korea	USD	6,100	6,100	
xi	Universal Relay Testing Kit	1 Set																1	Korea	USD	11,688	11,688	
xii	Battery Discharge Kit	1 Set																1	Korea	USD	3,400	3,400	
xiii	SF_6 Gas Purity Detector for SO_2, H_2O, CF_4, HF, Air etc	1 Set																1	Korea	USD	31,208	31,208	
xiv	Relay Testing kit.	1 Set																1	Korea	USD	4,781	4,781	
xv	Synchronizing instrument	1 Set																1	Korea	USD	1,063	1,063	
29	ANY OTHER ITEM WHICH IN THE OPINION OF THE BIDDER IS ESSENTIAL AND HE MAY LIKE TO QUOTE																					0	

General Manager (C&D)
HPPTCL, Shimla-5

2.A.24

Sr. No.	Description of Equipment / Material	Qty/Unit	M/S Kanohar Electricare Ltd. Meerut (BS)					M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (BS)					M/S BAJAJ ELECTRICALS LTD. MUMBAI (B1)					M/S Dive Stor Ltd. Mumbai (BS)					M/S Toshiba T&D System (B1)
			Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	
					Foreign Currency	CIF				Foreign Currency	CIF				Foreign Currency	CIF				Foreign Currency	CIF		
1	2	3	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	
i	220kV GIS Bus Duct with one No horizontal & 1 no. vertical bend	32 RM	30	CHINA	USD	2875	86250		China	USD			30	CHINA	USD	1104.3	33139	0	Korea	USD	1500	0	
ii	132 kV GIS Bus Duct with one No horizontal & 1 no. vertical bend	30 RM	30	CHINA	USD	2875	86250		China	USD			30	CHINA	USD	2875	82117	0	Korea	USD	3140	0	
iii	Bus Interconnection bay module: 245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF6 Gas Insulated Bus Coupler Bay Module comprising of SF6 Gas Insulated Circuit Breaker (4,000 A), Current Transformers (Ratio 3600-800 / 1 - 1 - 1 - 1 - 1 - 1 A), Bus Bar Isolator / Disconnector Switches (4,000 A) combined with earth switch complete with manual and Motor Driven Operating Mechanism, High speed fault making grounding switch complete with group operated manual and motor driven operating mechanism ,Local Control Cubicle LCC (if required), SF6 Gas Monitoring system with complete Bay, GIS Duct and AIR/SF6 Bushing termination enclosure and Accessories etc complete in all respects	set																				0	
iv	Bus Interconnection bay module: 145kV, 3000 A, Short Circuit Current Rating of 40 kA for 3.0 seconds, SF6 gas insulated bus coupler bay module comprising of SF6 gas insulated circuit breaker (3000 A), current transformers (Ratio 2000 -1000 / 1 - 1 - 1 - 1 - 1 - 1 A), bus bar isolator / disconnector switches (3000 A) combined with earth switch complete with manual and Motor Driven Operating Mechanism, High speed fault making grounding switch complete with group operated manual and motor driven operating mechanism ,Local Control Cubicle LCC (if required), SF6 Gas Monitoring system with complete Bay, GIS Duct and AIR/SF6 Bushing termination enclosure and Accessories etc complete in all respects	set																				0	
																						0	
																						0	
1	MANDATORY SPARES																					0	
2	COMMON SPARES, MAINTENACE TOOLS FOR 220KV & 132KV GIS																					0	
2.1	220KV GIS																					0	
i	SF_6 Gas Pressure Relief Devices 3 Nos. of each type	1 No	3	CHINA	USD	610	610	1	China	USD	4500	4500	3	CHINA	USD	19487	19487	1				0	
ii	Pressure Gauge alongwith Coupling Device	1 No. of each type	3	CHINA	USD	650	650	1	China	USD	1500	1500	3	CHINA	USD	19487	19487	1	Korea	USD	887	887	
iii	Rubber Gaskets, 'O' Rings and Seals for SF_6 gas	1 No. of each type	1	CHINA	USD	855	855	1	China	USD	1000	2000	3	CHINA	USD	19487	19487	1	Korea	USD	167	167	
iv	Density Meter for SF_6 Gas	1 No	1	CHINA	USD	366	366	1	China	USD	1500	1500	3	CHINA	USD	19487	19487	1	Korea	USD	1369	1,369	
v	All Types of Control Valves for SF_6 Gas	1 No. of each type	1	CHINA	USD	244	244	1	China	USD	5000	5000	3	CHINA	USD	19487	19487	1	Korea	USD	339	339	
vi	Molecular Filter for SF_6 Gas with Filter Bags	1 No. of each type	1	CHINA	USD	732	732	1	China	USD	1000	1000	1	CHINA	USD	19487	19487	1	Korea	USD	7769	7,769	
vii	SF_6 Gas	20% of total weight	20	CHINA	USD	13063	261260	1	China	USD	7000	7000	1	CHINA	USD	19487	19487	1	Korea	USD	8282	8,282	

General Manager (C&D)
HPPTCL, Shimla-5

2.A.25

Sr. No.	Description of Equipment / Material	Qty/Unit	M/S Kanohar Electricals Ltd. Meerut (BS)					M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (BS)					M/S BAJAJ ELECTRICALS LTD. MUMBAI (BT)					M/S. Blue Star Ltd. Mumbai (BB)					M/S Toshiba T&D System (BB)
			Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	
					Foreign Currency	CIF				Foreign Currency	CIF				Foreign Currency	CIF				Foreign Currency	CIF		
1	2	3	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	
viii	Enclosure, Insulators and Bus Bar to replace one section of each Phase of Bus Bar Compartment	1 No. of each type	1	CHINA	USD	16257	16257	1	China	USD	15000	15000	1	CHINA	USD	19487	19487	1	Korea	USD	21198	21,198	
ix	Locking Device to keep the Disconnectors (Isolators) and Earthing Switches in CLOSE or OPEN Position in case of removal of the Driving Mechanism	1 Set	1	CHINA	USD	122	122	1	China	USD	1000	1000	1	CHINA	USD	19487	19487	1	Korea	USD	157	157	
x	Gas Evacuating and Refilling Device with storage capacity of a complete set of 220KV GIS Bay including Gas Sections of all Bus Bar and Associated Equipments	1 Set	1	CHINA	USD	20320	20320	1	China	USD	50000	50000	1	CHINA	USD	19487	19487	1	Korea	USD	112547	1,12,547	
xi	Gas Leakage Monitor	1 No.	1	CHINA	USD	5616	5616	1	China	USD	4000	4000	1	CHINA	USD	19487	19487	1	Korea	USD	4186	4,186	
xii	Dew Point Meter and Portable PD Monitoring System for Gas Insulated Switchgear	1 No	1	CHINA	USD	20133	20133	1	China	USD	130000	130000	1	CHINA	USD	19487	19487	1	Korea	USD	15439	15,439	
3.2	132KV GIS EQUIPMENT						0				0	0											0
i	SF_6 Gas Pressure Relief Devices 3 Nos. of each type	1 No	1	CHINA	USD	610	610	1	China	USD	4580	4580	1	CHINA	USD	6070	6070	1	Korea	USD	1697	1,697	
ii	Pressure Gauge alongwith Coupling Device	1 No. of each type	1	CHINA	USD	610	610	1	China	USD	1200	1200	1	CHINA	USD	6070	6070	1	Korea	USD	911	911	
iii	Rubber Gaskets, "O" Rings and Seals for SF_6 gas	1 No. of each type	1	CHINA	USD	855	855	1	China	USD	500	500	1	CHINA	USD	6070	6070	1	Korea	USD	425	425	
iv	All Types of Control Valves for SF_6 Gas	1 No. of each type	1	CHINA	USD	244	244	1	China	USD	800	800	1	CHINA	USD	6070	6070	1	Korea	USD	283	283	
v	Enclosure, Insulators and Bus Bar to replace one section of each Phase of Bus Bar Compartment	1 No. of each type	1	CHINA	USD	19045	19045	1	China	USD	4000	4000	1	CHINA	USD	6070	6070	1	Korea	USD	4563	4,563	
vi	Molecular Filter for SF_6 Gas with Filter Bags	1 No. of each type	1	CHINA	USD	244	244	1	China	USD	800	800	1	CHINA	USD	6070	6070	1	Korea	USD	2187	2,187	
vii	SF6 gas	20% of total weight	28	CHINA	USD	7813	156250	1	China	USD	7500	7500	1	CHINA	USD	6070	6070	1	Korea	USD	7732	7,732	
3	SPARES FOR CIRCUIT BREAKER											0											0
3.1	220KV GIS CIRCUIT BREAKER											0											0
i	Complete circuit breaker pole of each type and rating complete with interrupter, main circuit enclosure, mainshaft nos and operating mechanism	1 No	1	CHINA	USD	26004	26004	1	China	USD	30000	30000	1	CHINA	USD	2379	2379	1	Korea	USD	23519	23,519	
ii	Rubber gasket, 'O' rings and seals of SF6 gas of each type	1 Set	1	CHINA	USD	855	855	1	China	USD	800	800	1	CHINA	USD	2379	2379	1	Korea	USD	98	98	
iii	Trip Coils with Resistor as applicable (3 Nos. of each type)	1 Set	1	CHINA	USD	610	610	1	China	USD	1800	1800	1	CHINA	USD	2379	2379	1	Korea	USD	10	10	
iv	Closing Coils with resistor as applicable (3 Nos. of each type)	1 Set	1	CHINA	USD	610	610	1	China	USD	1800	1800	1	CHINA	USD	2379	2379	1	Korea	USD	10	10	
v	Molecular Filter for SF6 Gas with Filter Bags	10% of total quantity	10	CHINA	USD	366	3660	1	China	USD	800	800	1	CHINA	USD	2379	2379	1	Korea	USD	15	15	
vi	Density/ pressure monitoring system (3 Nos. of each type)	1 Set	1	CHINA	USD	1099	1099	1	China	USD	4000	4000	1	CHINA	USD	2379	2379	1	Korea	USD	514	514	
vii	Relays, Power Contactors, push Buttons, timers & MCB etc of each type and rating	1 Set	1	CHINA	USD	4273	4273	1	China	USD	800	800	1	CHINA	USD	2379	2379	1	Korea	USD	167	167	
viii	Closing assembly/ valve (3 nos. of each type)	1 Set	1	CHINA	USD	610	610	1	China	USD	1800	1800	1	CHINA	USD	2379	2379	1	Korea	USD	6483	6,483	
ix	Trip assembly/ valve (3 nos. of each type)	1 Set	1	CHINA	USD	610	610	1	China	USD	1800	1800	1	CHINA	USD	2379	2379	1	Korea	USD	6483	6,483	
x	Pressure Switches (3 nos. of each type)	1 Set	1	CHINA	USD	1709	1709	1	China	USD	1200	1200	1	CHINA	USD	2379	2379	1	Korea	USD	26	26	
xi	Auxiliary Switch Assembly (3 nos. of each type)	1 Set	1	CHINA	USD	366	366	1	China	USD	1800	1800	1	CHINA	USD	2379	2379	1	Korea	USD	1119	1,119	

General Manager (C&D)
HPPTCL, Shimla-5

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Sr. No.	Description of Equipment / Material	Qty/Unit	M/S Kanohar Electricals Ltd. Meerut (B5)					M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (B6)					M/S BAJAJ ELECTRICALS LTD. MUMBAI (B1)					M/S Blue Star Ltd. Mumbai (B8)					M/S Toshiba T&D System (B9)
			Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	
					Foreign Currency	CIF				Foreign Currency	CIF				Foreign Currency	CIF				Foreign Currency	CIF		
1	2	3	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	
xii	Operation Counter	1 No	1	CHINA	USD	121	121	1	China	USD	500	500	1	CHINA	USD	2379	2379	1	Korea	USD	5	5	
xiii	Rupture disc/ diaphram (3 nos. of each type)	1 Set	3	CHINA	USD	633	633	1	China	USD	1800	1800	1	CHINA	USD	2379	2379	1	Korea	USD	25	25	
xiv	Windowscope/ Observing window	1 Set	0				0	1			NA		1	CHINA	USD	2379	2379	1	Korea	USD	100	100	
xv	Spring operating mechanism, complete with all necessary connecting apparatus.	1 Set	1	CHINA	USD	13107	13107	1	China	USD	10000	10000	1	CHINA	USD	2379	2379	1	Korea	USD	1000	1,000	
xvi	Coupling device for pressure gauge cum switch for connecting gas handling plant (3 Nos. of each type)	1 Set	1	CHINA	USD	855	855	1	China	USD	1500	1500	1	CHINA	USD	2379	2379	1	Korea	USD	100	100	
3.2	132KV GIS CIRCUIT BREAKER						0					0											0
i	Complete circuit breaker pole of each type and rating complete with interrupter, main circuit enclosure, insulating box and operating mechanism	1 No	1	CHINA	USD	43339	43339	1	China	USD	30000	30000	1	CHINA	USD	1301	1301	1	Korea	USD	30541	30,563	
ii	Rubber gasket, 'O' rings and seals of SF6 gas of each type	1 Set	1	CHINA	USD	244	244	1	China	USD	500	500	1	CHINA	USD	1301	1301	1	Korea	USD	63	63	
iii	Trip Coils with Resistor as applicable (3 Nos. of each type)	1 Set	1	CHINA	USD	610	610	1	China	USD	1500	1500	1	CHINA	USD	1301	1301	1	Korea	USD	1157	1,157	
iv	Closing Coils with resistor as applicable (3 Nos. of each type)	1 Set	1	CHINA	USD	610	610	1	China	USD	1500	1500	1	CHINA	USD	1301	1301	1	Korea	USD	1157	1,157	
v	Molecular Filter for SF6 Gas with Filter Bags	10% of total qty	10	CHINA	USD	122	1220	1	China	USD	800	800	1	CHINA	USD	1301	1301	1	Korea	USD	75	75	
vi	Density/ pressure monitoring system (3 Nos. of each type)	1 Set	1	CHINA	USD	1099	1099	1	China	USD	4000	4000	1	CHINA	USD	1301	1301	1	Korea	USD	514	514	
vii	Relays, Power Contactors, push Buttons, timers & MCB etc of each tpe and rating	1 Set	1	CHINA	USD	1465	1465	1	China	USD	800	800	1	CHINA	USD	1301	1301	1	Korea	USD	167	167	
viii	Closing assembly/ valve (3 nos. of each type)	1 Set	1	CHINA	USD	610	610	1	China	USD	1500	1500	1	CHINA	USD	1301	1301	1	Korea	USD	2697	2,697	
ix	Trip assembly/ valve (3 nos. of each type)	1 Set	1	CHINA	USD	610	610	1	China	USD	1500	1500	1	CHINA	USD	1301	1301	1	Korea	USD	2697	2,697	
35	Pressure Switches (3 nos. of each type)	1 Set	1	CHINA	USD	1709	1709	1	China	USD	1200	1200	1	CHINA	USD	1301	1301	1	Korea	USD	26	26	
xi	Auxiliary Switch Assembly (3 nos. of each type)	1 Set	1	CHINA	USD	122	122	1	China	USD	1800	1800	1	CHINA	USD	1301	1301	1	Korea	USD	372	372	
xii	Operation Counter	1 No	1	CHINA	USD	122	122	1	China	USD	500	500	1	CHINA	USD	1301	1301	1				0	
xiii	Rupture disc/ diaphram (3 nos. of each type)	1 Set	1	CHINA	USD	610	610	1	China	USD	1800	1800	1	CHINA	USD	1301	1301	1				0	
xiv	Windowscope/ Observing window	1 Set	0				0	1			NA		1	CHINA	USD	1301	1301	1				0	
xv	Spring operating mechanism, complete with all necessary connecting apparatus.	1 Set	1	CHINA	USD	8332	8332	1	China	USD	5000	5000	1	CHINA	USD	1301	1301	1				0	
xvi	Coupling device for pressure gauge cum switch for connecting gas handling plant (3 Nos. of each type)	1 Set	1	CHINA	USD	855	855	1	China	USD	1500	1500	1	CHINA	USD	1301	1301	1				0	
4	SPARES FOR ISOLATOR AND EARTH SWITCH						0					0											0
4.1	220KV ISOLATOR AND EARH SWITCH						0					0											0
i	Complete set of 3 Nos. of single phase/1 Nos. of three phase disconnector viz main circuit enclosure and driving mechanism	1 Set	1	CHINA	USD	28079	28079	1	China	USD	15000	15000	1	CHINA	USD	604	604	1	Korea	USD	63747	63,747	
ii	Complete set of 3 Nos. of single phase/1 Nos. of three phase earthing switch viz main circuit enclosure and driving mechanism	1 Set	1	CHINA	USD	22941	22941	1	China	USD	15000	15000	1	CHINA	USD	604	604	1	Korea	USD	14972	14,972	
iii	Copper contact fingers for disconnector male and female contact for one complete (3 phase) disconnector of each type and rating	1 Set	1	CHINA	USD	977	977	1	China	USD	5000	5000	1	CHINA	USD	604	604	1	Korea	USD	4180	4,180	
iv	Copper contact fingers for earthing switch male and female contact for one complete (3 phase) disconnector of each type and rating	1 Set	1	CHINA	USD	1587	1587	1	China	USD	5000	5000	1	CHINA	USD	604	604	1	Korea	USD	3717	3,717	
v	Limit switches and auxiliary switches for complete three phase equipment						0					0				604							0
	a) For isolator	3 Set	1	CHINA	USD	244	732	3	China	USD	500	1500	3	CHINA	USD	604	1811	3	Korea	USD	56	168	
	b) For earth switch	1 Set	1	CHINA	USD	244	244	1	China	USD	500	500	1	CHINA	USD	604	604	1	Korea	USD	167	167	
vi	Rotor housing bearing assembly for complete three phase equipment						0					0				604							0
	a) For isolator	2 Set	0				0	2	China	USD	1000	2000	2	CHINA	USD	604	1207	2	Korea	USD	133	266	
	b) For earth switch	1 Set	0				0	1	China	USD	1000	1000	1	CHINA	USD	604	604	1	Korea	USD	133	133	

General Manager (C&D)
HPPTCL, Shimla-5

2.A.27

Sr. No.	Description of Equipment / Material	Qty/Unit	M/S Kanohar Electricals Ltd. Meerut (B1)					M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (B2)					M/S BAJAJ ELECTRICALS LTD. MUMBAI (B1)					M/S. Blue Star Ltd. Mumbai (B8)					M/S Toshiba T&D System (B6)
			Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	
					Foreign Currency	CIF				Foreign Currency	CIF				Foreign Currency	CIF				Foreign Currency	CIF		
1	2	3	19	30	31	32	33	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	
vi.	Gearing for three phase equipment						0					0				604							0
	a) For isolator	3 Set	3	CHINA	USD	244	732	3	China	USD	3000	3000	3	CHINA	USD	604	1811	3	Korea	USD	191	573	
	b) For earth switch	1 Set	1	CHINA	USD	244	244	1	China	USD	1000	1000	1	CHINA	USD	604	604	1	Korea	USD	133	133	
vii	Interlocking coil with resistor, timers, key interlock for complete three phase	1 Set	0				0	1	China	USD	2000	2000	1	CHINA	USD	604	604	1	Korea	USD	1286	1,286	
ix	Relays, Power Contactors, push Buttons, timers & MCB etc of each type and rating						0					0				604							0
	a) For isolator	3 Set	3	CHINA	USD	1465	4395	3	China	USD	800	2400	3	CHINA	USD	604	1811	3	Korea	USD	90	270	
	b) For earth switch	1 Set	1	CHINA	USD	1465	1465	1	China	USD	800	800	1	CHINA	USD	604	604	1	Korea	USD	90	90	
x	Auxiliary Switch Assembly with NO + NC (2 nos. of each type)	1 Set	1	CHINA	USD	366	366	1	China	USD	1400	2500	1	CHINA	USD	604	604	1	Korea	USD	258	258	
4.2	132KV ISOLATOR AND EARH SWITCH						0					0											0
i.	Complete set of 3 Nos. of single phase/1 Nos. of three phase disconnector dc main circuit, enclosure and driving mechanism	1 Set	1	CHINA	USD	11232	11232	1	China	USD	12000	12000	1	CHINA	USD	297	297	1	Korea	USD	16956	16,956	
ii	Complete set of 3 Nos. of single phase/1 Nos. of three phase earthing switch dc main circuit, enclosure and driving mechanism	1 Set	1	CHINA	USD	9400	9400	1	China	USD	12000	12000	1	CHINA	USD	297	297	1				0	
iii	Copper contact fingers for disconnector male and female contact for one complete (3 phase) disconnector of each type and rating	1 Set	1	CHINA	USD	4517	4517	1	China	USD	2500	2500	1	CHINA	USD	297	297	1	Korea	USD	3344	3,344	
iv	Copper contact fingers for earthing switch male and female contact for one complete (3 phase) disconnector of each type and rating	1 Set	1	CHINA	USD	3860	3860	1	China	USD	2500	2500	1	CHINA	USD	297	297	1	Korea	USD	3344	3,344	
v	Limit switches and auxiliary switches for complete three phase equipment						0					0											0
	a) For isolator	3 Set	3	CHINA	USD	244	732	3	China	USD	500	1500	3	CHINA	USD	297	892	3	Korea	USD	251	753	
	b) For earth switch	1 Set	1	CHINA	USD	122	122	1	China	USD	500	500	1	CHINA	USD	297	297	1	Korea	USD	250	250	
vi	Rotor bearing bearing assembly for complete three phase equipment						0					0											0
	a) For isolator	2 Set	0				0	2	China	USD	1000	2000	2	CHINA	USD	297	595	2	Korea	USD	129	258	
	b) For earth switch	1 Set	0				0	1	China	USD	2000	1000	1	CHINA	USD	297	297	1	Korea	USD	129	129	
vii.	Gearing for three phase equipment						0					0											0
	a) For isolator	3 Set	3	CHINA	USD	122	366	3	China	USD	1000	3000	3	CHINA	USD	297	892	3	Korea	USD	193	579	
	b) For earth switch	1 Set	1	CHINA	USD	122	122	1	China	USD	1000	1000	1	CHINA	USD	297	297	1	Korea	USD	186	193	
viii	Interlocking coil with resistor, timers, key interlock for complete three phase	1 Set	0				0	1			1500	1500	1	CHINA	USD	297	297					0	
ix	Relays, Power Contactors, push Buttons, timers & MCB etc of each type and rating						0					0											0
	a) For isolator	3 Set	3	CHINA	USD	1465	4395	3	China	USD	500	1500	3	CHINA	USD	297	892	3	Korea	USD	90	270	
	b) For earth switch	1 Set	1	CHINA	USD	1465	1465	1	China	USD	500	500	1	CHINA	USD	297	297	1	Korea	USD	90	90	
x	Auxiliary Switch Assembly with NO + NC (3 nos. of each type)	1 Set	1	CHINA	USD	366	366	1	China	USD	1800	1800	1	CHINA	USD	297	297	1	Korea	USD	258	258	
5	SPARES FOR CURRENT TRANSFORMER						0					0											0
i	220 KV, single phase current transformer ratio 2000-1000-500A/1-1-1-1-1A complete with mounting hardware	2 Nos	2	CHINA	USD	122	244	1	China	USD	10000	20000	2	CHINA	USD	17372	34745	2	Korea	USD	25613	51,226	
ii	220 KV, single phase current transformer ratio 800-400A/1-1-1-1-1A complete with mounting hardware	2 Nos	2	CHINA	USD	122	244	1	China	USD	10000	20000	2	CHINA	USD	17372	34745	2	Korea	USD	25613	51,226	
iii	220 KV, single phase current transformer ratio 1600-800/1-1-1-1-1A complete with mounting hardware	2 No.	2	CHINA	USD	122	244	1	China	USD	10000	20000	2	CHINA	USD	17372	34745	2	Korea	USD	25613	51,226	
iv	132 KV, single phase current transformer ratio1600-800-400/1-1-1-1-1A complete with mounting hardware	4 No	3	CHINA	USD	122	122	1	China	USD	7000	28000	4	CHINA	USD	17372	69490	4	Korea	USD	16850	67,400	
v	132 KV, single phase current transformer ratio1200-600/1-1-1-1-1A complete with mounting hardware	2 No	1	CHINA	USD	122	122	1	China	USD	7000	14000	2	CHINA	USD	17372	34745	2	Korea	USD	16850	33,700	

SCH-1) Material supplied from abroad) 7 of 8

General Manager (C&D)
HPPTCL, Shimla-5

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Sr. No.	Description of Equipment / Material	Qty/Unit	M/S Kanohar Electricals Ltd. Meerut (B5)					M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (B6)					M/S BAJAJ ELECTRICALS LTD. MUMBAI (B1)					M/S. Blue Star Ltd. Mumbai (B4)					M/S Toshiba T&D System (B9)
			Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty	Country of Origin	Unit Price		Total Price (USD)	Qty.	Country of Origin	Unit Price		Total Price (USD)	Qty	Country of Origin	Unit Price		Total Price (USD)	
					Foreign Currency	CIF				Foreign Currency	CIF				Foreign Currency	CIF				Foreign Currency	CIF		
1	2	3	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	
vi	132 KV, singe phase current transformer ratio 2000-1000/1-1-1-1A complete with mounting hardware	1 No	1	CHINA	USD	122	122	1	China	USD	7000	7000	1	CHINA	USD	17372	17372	1	Korea	USD	16850	16,850	
vii	33 KV, single phase current transformer ratio 10-5/1-1A complete with mounting hardware	3 Nos	3	CHINA	USD	122	366	0					1					3	Korea	USD	500	1,500	
6	SPARES FOR VOLTAGE TRANSFORMER AND CAPACITIVE VOLTAGE TRANSFORMER											0										0	
i	220 KV, single phase voltage transformer ratio 220KV/√3/110V/√3/110V/√3/110V/√3 with mounting hardware	2 no.						2	China	USD	20000	40000	1	CHINA	USD	17318	34636	2	Korea	USD	12668	25,776	
ii	132 KV, single phase capacitive voltage transformer ratio 132KV/√3/110V/√3/110V/√3/110V with mounting hardware	2 Nos											1	CHINA	USD	17318	34636	2	Korea	USD	16078	32,156	
7	SPARES FOR SURGE ARRESTOR																					0	
i	198KV Zinc Oxide Gapless Surge Arrester with counter and leakage meter	3 Nos																				0	
ii	120KV Zinc Oxide Gapless Surge Arrester with counter and leakage meter	1 Nos																				0	
	Total as per bid Price						47,36,733					32,77,400					43,01,147					58,85,556	
	Inclusive Taxes if any																2%						
	Total Without taxes																42,18,771						
	Total including arithmatic error (for tax calculation)																					60,24,536	

Dy. Manager (Contracts)
HPPTCL, Barowalia House
Khalini, Shimla-2

Dy. General Manager (Contracts)
H.P. Power Transmission Corpn. Ltd.
Barowalia House, Khalini, Shimla-2

General Manager (C&D)
HPPTCL, Shimla-5

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SCHEDULE 2(Plant & Mandatory Spares Parts Supplied with or Employed Country) Table-2c

TENDER DOCUMENT No.: 07 - 66 / ADD / HPPTCL / 220 KV GIS CHAMOR

BILL OF MATERIAL REQUIRED FOR 132/220 kV GIS SUB-STATION AT CHAMOR

COMPARATIVE STATEMENT

Sr. No	DESCRIPTION OF EQUIPMENT / MATERIAL	Qty./unit	M/S Kanohar Electricals Ltd. Meerut (KE)			M/S Khyam Udus Solutions Pvt. Ltd. New Delhi (KH)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (BA)			M/S Blue Star Ltd. Mumbai (BS)			M/S Toshiba T&D System (BT)		
			Qty	EXW Price (INR)		Qty	EXW Price (AR)		Qty	EXW Price (INR)		Qty	EXW Price (AR)		Qty	EXW Price (INR)	
				Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price
1	2	3	16	17	18	19	20	21	22	23	24	26	26	27	28	29	30
1	POWER TRANSFORMER & STATION TRANSFORMER																
i	25/50/4 (MVA) 50 MVA, 220/132/33KV, Vector Group YNyn0d11 %Impedance 12.5/12.5/10 %HV-IV/HV-LV/IV-LV Single phase auto power transformer with 33KV tertiary loaded up to 2500KVA, DMAN/ONAF/OFAF rating 220KV, 132KV and 33KV outer bushing accessories and two air drying with 10% extra air with RTCC panel	3 Nos	3	2,54,08,667	7,62,26,001	3	4,32,24,693	12,96,77,081	3	2,37,42,308	7,12,26,908	3	3,64,20,481	10,92,61,443	3	2,10,02,200	6,30,06,600
ii	250KVA, 33/0.433 kV, 3 Phase Station Auxiliary Transformer including cable box for LT Termination, 33KV outer bushing, accessories and Test on filling with 10% extra oil	1 No	1	8,56,552	8,56,552	1	8,28,811	8,28,811	1	12,62,984	12,62,984	1	6,11,000	6,11,000	1	4,31,210	4,31,210
iii	Hydro Gas Analysis On Line DGA Photometer	2 Nos	2	17,83,553	35,67,106	2	61,01,309	1,22,10,215	5	47,37,383	1,41,51,149	3	52,46,501	1,57,39,503	3	1070440	3,19,76,742
iv	Indusmig oil drying system	3 Nos	3	6,16,762	21,13,576	3	1126111.15	3,41,55,334	3	10,79,007	32,49,022	3	14,86,587	44,00,543	3	1111433	33,34,860
v	Fibre optic temperature measuring system	3 Nos	3	7,17,421	21,52,263	3	1165457.87	34,36,319	3	8,65,158	26,64,473	3	5,84,000	29,63,977	3	1662740	20,24,758
2	220KV GIS EQUIPMENTS				0			0			0			0			0
i	BUS BARS MODULE	2 Set			0			0			0			0	2	1629400	3,58,15,280
	245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, Single Phase (Isolated)Phase Phase encapsulated Unit, SF_6 Gas Insulated, Metal enclosed Bus Duct, Bus Enclosures running along the length of the Switchgear to interconnect each of the Circuit Breaker Bay Module in Double Main Bus System. Each Phase shall be complete with Inductive Voltage Transformers (VTs) complete with Isolator / Disconnector cum Earth Switches and Safety Grounding Switch all complete with Manual and Motor Driven Operating Mechanism, Local Control Cubicle LCC (if required) GIS Duct with SF_6 Gas Monitoring System and Accessories etc complete in all respects				0			0			0			0			0
ii	BUS COUPLER BAY MODULE	2 Set			0			0			0			0	2	2519600	5,01,57,200
	245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF_6 Gas Insulated Bus Coupler Bay Module comprising of SF_6 Gas Insulated Circuit Breaker (4,000 A), Current Transformers (Ratio 1600-800 / 1 - 1 - 1 - 1 - 1 - 1 A), Bus Disconnector / Disconnector Switches (4,000 A) combined with Safety Grounding Switches complete with one Manual and Motor Driven Operating Mechanism, Local Control Cubicle LCC (if required) GIS Duct with SF_6 Gas Monitoring System and Accessories etc complete in all respects				0			0			0			0			0
iii	TRANSFORMER CIRCUIT BREAKER BAY MODULE	1 Nos			0			0			0			0	1	3127400	3,93,21,400
	245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF_6 Gas Insulated Transformer Circuit Breaker Bay Module each comprising of SF_6 Gas Insulated Circuit Breaker (4,000 A), Current Transformers (Ratio: 800 - 400 / 1 - 1 - 1 - 1 - 1 - 1 A), Isolator / Disconnector Switches (4,000 A) combined with Safety Earth Switch complete with Manual and Motor Driven Operating Mechanisms, Local Control Cubicle (if required) SF_6 Gas Monitoring System for complete Bay, Single Phase SF_6 Ducts and Gas Insulated Terminal Connection (SF_6 / Air Interface alongwith all Accessories) for connecting 25/50/4 (MVA) 50 MVA, single phase bank of 220/132/33KV, Auto Transformers with 245 kV GIS through Gas insulated Interconnection Bus and Accessories etc complete in all respects				0			0			0			0			0
iv	TRANSMISSION LINE FEEDER BAY MODULE	2 Set			0			0			0			0	2	3038200	6,91,72,400
	245 kV, 3150 A, Short Circuit Current Rating of 50 kA, for 3.0 seconds, SF_6 Gas Insulated Transmission Line Feeder Bay Module each comprising of SF_6 Gas Insulated Circuit Breaker (3150 A), Current Transformers (Ratio : 2000-1600/1 - 1 - 1 - 1 - 1 A), isolator / Disconnectors (3150 A) Switches with combined Earth Switch complete with Manual and Motor Driven Operating Mechanism, High Speed Fault Making, Grounding Switch complete with group operated Manual and Motor Driven Operating Mechanism, Local Control Cubicle (if required), SF_6 Gas Monitoring System for complete bay, GIS Duct and Air / SF_6 Bushing Termination Enclosure and Accessories etc complete in all respects				0			0			0			0			0

General Manager (C&D)
HPPTCL, Shimla-5

2.A.30

Sr. No.	DESCRIPTION OF EQUIPMENT / MATERIAL	Qty./unit	M/S Satcher Electricals Ltd. Meerut (ED)			M/S Elnpert India Solutions Pvt. Ltd. New Delhi (EC)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (EH)			M/S. Blue Star Ltd. Mumbai (HB)			M/S Toshiba T&D System (EB)		
			Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)	
				Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price
1	2	3	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
v	245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, Single Phase (Isolated)/Three Phase encapsulated Unit, SF_6 Gas insulated Metal enclosed Bus Bars Arr to SF6 Bushing and accessories etc complete in all respects to connect HPPTCL 220kV GIS Bus with 220kV AIS Bus at Kennad Sub Station	1 Set			0			0			0			0	1	Included	
3	132 KV GIS EQUIPMENT				0			0			0			0			0
i	BUS BARS MODULE	2 Sets			0			0			0			0	2	492857	98 [illegible]
	145 kV, 2000 A, Short Circuit Current Rating of 40 kA for 3.0 seconds, 3 single phase (Isolated)/Three Phase Unit, SF_6 gas insulated, metal enclosed bus bars, each enclosed in bus enclosure running along the length of the switchgear to interconnect each of the circuit breaker bay modules in Double Main Bus System. Each bus bar arr shall be complete with Voltage Transformers (VTs) complete with isolator / disconnector (with earth switch) bus safety grounding switch all complete with manual and motor driven operating mechanisms, LCC (if required), GIS Duct with SF_6 gas monitoring system and accessories etc complete in all respects				0			0			0			0			0
ii	BUS COUPLER BAY MODULE	2 Set			0			0			0			0	2	992452	1,98,49,000
	145kV, 2000 A, Short Circuit Current Rating of 40 kA for 3.0 seconds, SF_6 gas insulated bus coupler bay module comprising of SF_6 gas insulated circuit breaker (2000 A), current transformers (Ratio 2000-1000/1-1-1-1-1 A) bus bar isolator / disconnector switches (2000 A) combined with safety grounding switches complete with one manual and motor driven operating mechanism, local control cubicle LCC (if required) GIS Duct with SF_6 gas monitoring system and accessories etc complete in all respects				0			0			0			0			0
iii	TRANSFORMER CIRCUIT BREAKER BAY MODULE	1 Set			0			0			0			0	1	1,98,11,200	1,98,11,200
	145 kV, 1250 A, Short Circuit Current Rating of 40 kA for 3.0 seconds, SF_6 gas insulated transformer circuit breaker bay module comprising of SF_6 gas insulated circuit breaker (1200 A), current transformers (Ratio 1200-600/1-1-1-1-1 A), isolator / disconnector switches (1200 A) combined with safety earth switch complete with manual and motor driven operating mechanism local control cubicle (if required) SF_6 gas monitoring system for complete bay single phase SF_6 duct and SF6 / Oil bushing to connect 25 MVA 66/11 kV single phase bank of 3U 132/22kV, Auto transformers and accessories etc complete in all respects				0			0			0			0			0
iv	TRANSMISSION LINE FEEDER BAY MODULE	2 Sets			0			0			0			0	2	1,40,29,700	2,80,41,400
	145 kV, 2000 A, Short Circuit Current Rating of 40 kA for 3.0 seconds, SF_6 Gas insulated Transmission Line Feeder Bay Module each comprising of SF_6 Gas Insulated Circuit Breaker (2000 A), Current Transformers (Ratio 1600-800/1-1-1-1-1 A), Isolator / Disconnectors (2000 A) Switches with combined Earth Switch complete with Manual and Motor Driven Operating Mechanisms, High Speed Fault Making Grounding Switch complete with group operated Manual and Motor Driven Operating Mechanism, Local Control Cubicle (if required) SF_6 Gas Monitoring System for complete Bay, GIS Duct less Air / SF_6 Bushing Termination Enclosure and Accessories etc complete in all respects				0			0			0			0			0
v	145 kV, 2000 A, Short Circuit Current Rating of 40 kA for 3.0 seconds, Single Phase (Isolated)/Three Phase encapsulated Unit, SF_6 Gas Insulated Metal enclosed Bus Bars Arr to SF6 Bushing and accessories etc complete in all respects to connect HPPTCL 132kV GIS Bus with 132kV AIS Bus at Kennad Sub Station	1 Set			0			0			0			0	1	Included	
4	220KV OUT DOOR EQUIPMENT				0			0			0			0			0
i	245kV, 4400 PF Capacitive Voltage Transformer with junction box	6 Nos.	6	3,61,633	15,14,198	6	4,85,734	21,94,567	6	3,43,381	20,60,284	6	3,28,697	19,72,182	6	3,58,600	21,51,600
ii	2000A, 0.5sec, 50kA wave trap	4 Nos.	4	4,18,480	16,73,984	4	14,44,619	57,78,476	4	42,60,24,3455	11,52,098	4	4,86,043	19,44,172	4	3,98,470	15,93,880
a	120kV, Single Phase Zinc Oxide Gapless Surge Arrester with insulating base, surge counter and leakage meter	6 Nos.	6	50,218	4,51,971	5	84,520	7,60,703	9	19,135	5,32,219	9	50,760	5,91,900	9	49,670	4,31,930
iii	245kV, 4000A isolator with earth switch	1 Set	1	3,38,068	5,38,068	1	14,20,800	14,20,800	1	6,74,280	6,74,280	1	48,52,775	15,52,775	1	8,71,720	8,71,720
iv	245kV, 2000A isolator with earth switch	2 Set	2	1,69,113	12,16,396	2	8,06,752	17,53,503	2	709421.1480	14,10,822	2	8,28,282	16,76,464	2	8,60,940	17,81,880
5	132KV OUT DOOR EQUIPMENTS				0			0			0	0	-	0			0
i	120KV Zinc Oxide Gapless Surge Arrester with with insulating base, counter and leakage meter	9 Nos	9	38,871	3,33,630	9	60,841	5,28,570	9	49000.96238	4,05,600	9	66,666	4,50,702	9	34,250	3,08,250
ii	72kV, 4400 PF Capacitive Voltage Transformer with junction box	6 Nos.	6	1,79,353	10,76,118	6	3,59,516	10,63,096	6	3,73,116.576	22,26,696	6	2,56,437	15,02,622	6	1,99,230	11,95,380

General Manager (C&D)
HPPTCL, Shimla-5

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Sr. No	DESCRIPTION OF EQUIPMENT / MATERIAL	Qty (unit)	M/S Kanohar Electricals Ltd. Meerut (UP)			M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (DL)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (MH)			M/S. Blue Star Ltd. Mumbai (MH)			M/S Toshiba T&D System (DL)		
			Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)	
				Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price
1	2	3	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
ii	Guide 420kV 40kA Wave trap	4 Nos	4	2,56,975	11,00,700	4	6,83,119	27,32,538	4	3[8146.3313	15,14,585	4	6,31,250	18,12,268	4	2,56,020	10,44,080
iii	145kV 200A isolator with earth switch	3 Set	3	3,56,370	10,79,110	3	5,98,403	17,95,209	3	404[61.3[3	14,23,479	3	6,24,109	19,72,327	3	4,76,670	14,30,010
B	33KV OUT DOOR & INDOOR EQUIPMENTS				0			0			0	0		0			0
i	36 KV, 2 Ka, Oxide Gapless Surge Arrestor	3 Nos	9	11,565	71,736	9	18,576	1,17,684	9	14,000	84,420	6	17,716	1,02,336	6	12,650	73,200
ii	36kV, 800A, Isolator with earth switch	1 Set	1	1,67,364	1,67,364	1	2,80,020	2,80,020	1	1,94,362	1,94,362	1	2,23,662	2,23,662	1	1,20,450	1,20,450
iii	36KV indoor switchgear comprising 36KV, 800A, 30kA VCB, 3 Nos. single phase epoxy resin cast CT of ratio 50-25-12.5-1A, class 0.2, burden 30VA 3Nos. Single phase epoxy resin cast PT of ratio 33KV/√3/110V/√3, class 3P, burden 30VA including accessories and necessary over current earth fault protection, under/over voltage protection, trip supervision, DC supervision, electronic trivector energy meter, watt-hours, ammeters, indications, alarm and annunciation on control panel complete in all respect (for feeding 25MVA Station transformer from tertiary of power transformer	1 Set	1	10,16,133	10,16,133	1	16,81,757	16,81,757	1	10,85,584	10,85,584	1	13,14,510	13,14,510	1	22,83,500	22,83,500
iv	36KV indoor switchgear comprising 36KV, 800A, 30kA VCB, 3 Nos. single phase epoxy resin cast CT of ratio 50-25/1-1-1A, class 0.2, burden 30VA 2Nos. Single phase epoxy resin cast PT of ratio 33KV/√3/110V, class 3P, burden 30VA including accessories and necessary over current earth fault protection, under/over voltage protection, trip supervision, DC supervision, electronic trivector energy meter, watt-hours, ammeters, indications, alarm and annunciation on control panel complete in all respect (for 33 kV double supply feeder Panel	1 Set	1	10,16,133	10,16,133	1	16,81,757	16,81,757	1	16,89,644	16,89,644	1	15,19,005	15,19,005	1	22,83,500	22,83,500
F	220KV, 132KV SUPER STRUCTURES, 220KV, 132KV & 33 KV EQUIPMENT STRUCTURES & LIGHTNING MAST (GUARANTEED WEIGHT) (Note:- The bidder may access and quote in MT)	MT	44	80,871	35,87,000	58	1,16,595	66,72,537			0	65	1,14,400	74,94,960			0
i	220KV Galvanized Super Structure comprising gantries and columns				0			0	23	87,265	20,31,509			0	17.5	95,550	16,91,580
ii	220KV Galvanized Equipment structures for CVT, LA and isolators				0			0	3.4	87,265	2,92,015			0	8.4	80,600	8,11,844
iii	132KV Galvanized Super Structure comprising gantries and columns				0			0	13.5	87,265	11,78,645			0	13.3	95,600	12,85,379
iv	132KV Galvanized Equipment Structures for LA				0			0	7	87,265	6,11,016			0	8.4	80,600	8,11,844
v	33kV Equipment Structures for LA				0			0	2	87,265	1,74,530			0	7	80,600	5,76,620
vi	Lightning Mast (On Tower)				0			0	23.5	87,265	20,51,302			0	18	95,600	17,50,310
G	TESTING AND MAINTENANCE EQUIPMENTS				0			0			0			0			0
i	Partial Discharge Monitoring System (DHF type)	1 Set			0	1	29,71,038	29,71,038	0	4[0[0[0]	0			0	1	Not Applicable	
ii	Circuit Breaker Operational Analyser	1 Set	1	21,91,573	21,91,573	1	24,15,132	24,15,132	1	1[5[0[4.[0[3	15,76,940			0	1	6,41,000	6,41,000
iii	Digital Manometer	1 Nos	1	2,39,140	2,39,140	1	35,394	35,394	1	98,022	98,022			0	1	15,700	15,700
iv	Micro Ohm Meter Portable Type suitable for measuring Contact Resistance of High Voltage Equipment	1 Set	1	3,50,710	3,50,710	1	10,60,928	10,60,928	1	8,64,762	8,64,762			0	1	5,68,730	5,68,730
v	On Line DC Earth Fault Locator with Built in Charger and Rechargeable Batteries	1 Set	1	8,38,777	8,38,777	1	22,90,565	22,90,565	1	8,18,514	8,18,514			0	1	5,57,170	5,57,170
vi	Automatic Capacitance and Tan Delta (T) Kit	1 Set	1	20,59,256	20,59,256	1	30,82,968	30,82,968	1	18,62,222	18,62,222			0	1	18,28,900	18,28,900
vii	Automatic Turn Ratio Tester	1 Set	1	7,17,421	7,17,421	1	7,33,762	7,33,762	1	5,06,815	5,06,815			0	1	3,13,780	3,13,780
viii	DC Winding Resistance Kit	1 Set	1	3,97,900	3,97,900	1	10,32,148	10,32,148	1	5[0[0[8.2[0[6]	5,40,607			0	1	5,10,670	5,10,670
ix	Primary Current Injection Set	1 Set	1	5,97,900	5,97,900	1	12,42,756	12,42,756	1	4[2[0[7[7.4[0[6]	42,80,778			0	1	43,38,660	43,38,660
x	Circuit Breaker Slow Analyser	1 Set	1	21,91,573	21,91,573	1	37,23,462	37,23,462	1	3[1[5[1[1.[1[0]	31,53,334			0	1	Included in Sr.no	
xi	Universal Relay Testing Kit	1 Set	1	23,91,405	23,91,405	1	33,25,902	33,25,902	1	3[1[5[3[9.3[7]	31,53,915			0	1	31,36,900	31,36,900
xii	Battery Discharge Kit	1 Set	1	1,10,970	1,10,970	1	16,76,370	16,76,370	1	5,36,161	5,36,128			0	1	5,59,870	5,59,870
xiii	SF_6 Gas Purity Detector for SO_2, H_2O, CF_4, HF, Air etc.	1 Set	1	20,12,050	20,12,050	1	33,15,947	33,15,947	1	42,80,274	42,80,274			0	1	10,73,240	10,73,240
xiv	Relay Testing kit	1 Set	1	17,83,543	17,83,543	1	33,28,902	33,28,902	1	16,13,756	16,13,756			0	1	Included in Item Sr. no above	
xv	Synchronizing Scope	1 Set	1	1,78,208	1,78,208	1	4,12,172	4,12,172	1	6,75,833	6,75,833			0	1	Not Applicable	
H	RELAY AND PROTECTION PANELS AND SUB STATION AUTOMATION SYSTEM				0			0			0			0			0
A	220KV RELAY PROTECTION PANEL				0			0			0			0			0
i	Bus bar protection panel	1 Nos.	1	23,43,577	23,43,577	1	31,95,000	31,95,000	1	2[6[3[3[7[6.[0[0]	26,63,376	1	11,62,800	11,62,800	1	33,11,000	33,11,000
ii	Bus coupler protection panel	2 Nos	2	9,79,150	19,58,300	2	6,49,401	12,91,023	2	3[5[8.[0[3]	7,16,073	2	5,16,962	10,33,724	2	3,42,500	6,85,000
iii	Line protection panel	2 Nos	2	13,02,315	26,04,630	2	14,34,169	28,68,338	2	1[0[8[4[4.[2[9]	24,13,209	2	11,22,397	22,40,194	2	11,82,400	23,64,800
iv	Transformer protection panel (HV side of 25 MVA 66/33 KV power transformer)	1 Nos	1	12,33,865	12,33,865	1	13,30,266	13,30,266	1	0[6[6[5[5.[4[3]	6,94,966	1	11,27,064	11,27,064	1	8,20,490	8,20,490
v	Circuit Breaker Relay Panel (a) with auto recloser (b) with auto reclosure	3 Nos 2 Nos	3 2	2,94,900 4,30,685	8,82,864 [8[6[1.[7[0]	3 2	4,22,597 4,22,587	12,67,791 8,45,174	3 2	3[2[7[0[4.[8[7[1]	10,82,163 [7[5[5.[9[0]	3 2	4,48,701 4,48,211	13,44,703 8,96,422	3 2	4,18,550 3,09,045	12,79,650 7,98,090
vi	Tele Synchronization equipment and other common eq. (short pertaining to relay and protection system etc.	1 Lot	1	2,28,140	2,28,140	1	1,49,823	1,49,823	1	4,22,284	4,22,284	1	2,81,615	2,81,615	1	INCLUDED	

General Manager (C&D)
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Sr. No	DESCRIPTION OF EQUIPMENT / MATERIAL	Qty /unit	M/S Narvitar Electricals Ltd, Meerut (SU)			M/S Siyaan Indus Solutions Pvt. Ltd. New Delhi (SU)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (SU)			M/S Shaw Stainless Mumbai (SU)			M/S Tejaxis T&D System (SU)		
			Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty.	EXW Price (INR)	
				Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price
1	2	3	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
B	132kV RELAY PROTECTION PANEL				0			0			0	0	-	0			0
i	Bus bar protection panel	1 Nos.	1	22,29,048	22,29,048	1	21,48,147	21,48,147	1	24,63,976	24,63,976	1	11,80,600	11,80,600	1	33,11,000	33,11,000
ii	Circuit Breaker Relay Panel (complete with auto reclosure)	3 Nos.	3	2,81,616	8,44,848	3	4,10,715	12,32,145	3	5,27,695	15,83,085	3	4,48,261	13,44,783	3	4,29,740	12,89,220
iii	Transformer protection panel (LV side of 25 MVA/31.5MVA power transformer)	2 Nos.	2	5,32,068	10,64,136	2	4,10,715	8,21,430	2	5,27,694.0717	10,55,388	2	4,48,261	8,96,522	2	3,69,580	7,39,160
iv	Transformer protection panel (LV side of 25 MVA/31.5MVA power transformer)	1 No	1	11,83,724	11,83,724	1	7,39,571	7,39,571	1	3,13,561	3,13,561	1	4,70,634	4,70,634	1	1,75,63,000	1,75,63,000
iv	Bus coupler protection panel	2 Nos.	2	6,52,803	13,05,606	2	6,36,279	12,72,558	2	3,51,997	7,03,993	2	5,13,381	10,26,763	2	2,80,240	5,73,720
v	Line protection panel	2 Nos.	2	9,86,454	19,72,908	2	10,31,209	20,54,418	2	7,68,761	15,37,521	2	7,29,967	14,59,934	2	8,67,730	17,35,460
10	AUTOMATION (SAS)				0			0			0	0	-	0			0
i	Substation Automation equipment(with Fibre optics and other interface converter) as per	1 Set	1	68,78,514	68,78,514	1	2,19,68,945	2,19,68,945	1	63,10,411	63,10,411	1	90,78,888	90,78,888	1	60,05,970	60,05,970
ii	Testing and maintenance equipment	1 Set	1	3,97,800	3,97,800	1	31,26,400	31,26,400	1	38,71,962.000	38,71,962	1	3,29,521	3,29,521	1	35,90,000	35,90,000
iii	Inverter of suitable capacity with hot standby unit for station HMI and peripheral devices i.e. printers, port hub etc.	1 Set	1	3,68,710	3,68,710	1	Included		1	29,597.9949	7,61,351	1	1,48,261	1,48,261	1	3,71,000	3,71,000
11	AIR CONDITIONING AND VENTILATION SYSTEM				0			0			0	0	-	0			0
i	Split AC (2T Capacity) for 220kV & 132kV Control and relay room, PLCC room, office room	15 Nos	15	95,653	14,34,825	15	1,35,331	20,29,514	15	52905.48401	7,61,472	15	90,018	13,50,270	10	21,180	4,13,600
ii	450mm sweep exhaust fan with louvres without any filtration system	18 Nos	18	11,960	1,91,296	18	28,739	2,34,722	18	4,224	81,561	18	5,797	92,317	18	1,40,750	22,48,000
iii	Ventilation and Heating System				0			0			0			0			0
a	220 kV system	1 set	1	20,97,408	22,97,408	1	25,36,410	25,36,410	1	29,11,579	29,11,579	1	3,25,403	3,25,403	1	23,11,840.00	23,21,800
b	132 kV system	1 set	1	21,52,255	21,52,255	1	25,36,483	25,36,483	1	29,11,579	29,11,579	1	3,25,403	3,25,403	1	22,23,680.00	22,23,680
12	PLCC				0			0			0			0			0
i	Coupling device (Phase to Phase) range 0-300 m HF cable	4 Nos.	4	2,28,140	9,12,560	4	3,97,529	15,90,097	4	2,34,936	9,39,723	4	3,61,089	22,47,556	4	3,14,170.00	4,16,680
ii	Carrier equipment (for protection + speech and speech + Data)	8 Nos	8	4,19,648	33,47,168	8	6,79,540	54,36,965	8	6,79,012	53,84,140	8	5,54,464	44,75,712	8	3,33,960.00	26,31,120
iii	Protection Coupler	8 Nos.	8	1,79,239	14,34,945	8	2,55,895	20,16,517	8	6,33,017	53,84,140	8	2,43,118	19,92,544	8	2,53,160.00	20,09,600
iv	SHEAR GRAB with suspensions and cable etc	1 Set	1	4,19,648	4,19,648	1	6,79,573	6,54,015	1	4,57,506	4,57,506	1	6,30,945	6,30,945	1	3,19,600.00	3,19,600
v	Testing and maintenance equipment	1 Set	1	1,19,570	1,19,570	1	1,46,832	1,46,832	1	2,36,542	2,36,542	1	1,40,047	1,40,047	1	2,51,750.00	2,51,750
vi	Field testing kit	1 Set	1	1,19,570	1,19,570	1	1,46,832	1,46,832	1	2,36,542	2,36,542	1	1,40,047	1,40,047	1	2,51,750.00	2,51,750
13	FIBRE OPTIC TERMINAL EQUIPMENT	2 Set	2	59,76,514	1,19,57,028	2	1,14,19,264	2,28,38,528		-	0	2	1,10,74,907	2,21,49,814			0
i	19" Rack with 21 slots	4 Nos.							4	8,86,406	20,83,625			0	4	4,08,160.00	7,12,640
ii	Power Supply Card (48 Volts, DC)	8 Nos							8	1,267	10,136			0	8	1,48,425.00	11,87,400
iii	Control Card with Alarm Cable e1 Terminal	8 Nos							8	1,16,581	9,32,665			0	8	1,71,260.00	13,70,080
iv	STM-1 (1 *16-4 SFP Cages excluding SFP	8 Nos							8	1,267	10,136			0	8	Included above	
v	SFP 1/1.2 (1550 nm for Distance of 100 Km)	8 Nos							8	3,61,144	28,83,152			0	8	Included above	
vi	Fibre Patch Cord for OLTE-10meters	16 Nos							16	1,014	16,220			0	16	11,410.00	1,82,560
vii	DB Wires E&M Speech Interface Card Ports	4 Nos.							8	71,457	2,93,968			0	8	2,14,375.00	4,56,700
viii	Integrated tele protection coupler Accessories	8 Nos							8	5,73,620	23,90,560			0	8	2,46,840.00	19,72,800
ix	Low Speed and High Speed Data Interface Card - 8 Ports	8 Nos.							8	71,457	2,93,968			0	4	81,420.00	3,47,680
x	Party Wires Cutout Engineering Order Wire Phone (via IP)	4 Nos.							4	92,305	3,79,815			0	4	2,08,340.00	8,34,760
	LOT FOR MAINTENANCE CONSISTING OF ITEMS MENTIONED BELOW:									-	0			0			0
	(a) EMS SOFTWARE	4 Nos.							4	9,52,331	39,01,563			0	4	1,76,910.00	7,21,680
	(b) Laptop - 2.33 GHz, 2 GB DDR, 120 - 160 GB SAS HDD, integrated gigabit, Ethernet Network Interface, 25" TFT Screen, Window OS, MS Office Basic OEM Single Antivirus. Any other item required to complete the FOTE for both ends (not listed anywhere in quote)	4 Nos							4	2,34,410	9,37,712			0	4	1,76,910.00	7,21,680
14	LT SWITCHGEAR				0			0			0			0			0
	LT Panel having 2 Nos. 800A Air Circuit Breaker incomers 800A bus bar running throughout the length, one ACB for 250KVA, 33/0.4KV Station Transformer and 2nd for 250KVA DG set with over current, earth fault, under over voltage protection and interlocking arrangement. The arrangement should be such that the DG set runs and takes the load automatically on the failure of main AC supply option that operator may run the DG set on manual mode also. The LT panel comprises :				0			0			0			0			0
i	415V, 800A, Air Circuit Breaker board	2 Set	2	9,66,661	19,13,124	2	41,23,120	82,50,381	2	14,23,194	28,46,388	2	20,97,598	41,19,196	2	4,86,670.00	9,77,340
ii	415V AC Distribution board having minimum MCCB for particular load with capacity as required	1 Set	1	5,94,582	5,98,982	1	23,65,433	23,65,433	1	14,37,5906	14,37,906	1	7,10,176	7,10,176	1	11,13,200.00	11,13,200
iii	415V Main Lighting Distribution board having minimum MCCB for particular load with capacity as required	1 Set	1	2,99,023	2,99,023	1	4,39,155	4,39,155	1	6,48,730	6,48,730	1	2,80,588	2,80,588	1	1,48,420.00	1,48,420
iv	415V Emergency Lighting Distribution board having minimum MCCB for particular load with capacity as required	1 Set	1	1,73,355	1,19,355	1	3,76,348	3,76,348	1	1,98,575	3,98,575	1	2,18,967	2,18,967	1	1,71,260.00	1,71,260
v	415V Air conditioning and Ventilation Distribution Board having minimum MCCB for particular load with capacity as required	1 Set	1	1,73,355	1,19,355	1	6,04,184	6,04,184	1	4,83,631	4,83,631	1	1,53,282	1,53,282	1	1,71,260.00	1,71,260

General Manager (C&D)
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Sr No	DESCRIPTION OF EQUIPMENT / MATERIAL	Qty (unit)	M/S Kanoria Electricals Ltd. Howrah (S2)			M/S Elegant Indus Solutions Pvt. Ltd. New Delhi (S6)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (S1)			M/S. Blue Star Ltd. Mumbai (S4)			M/S Toshiba T&D System (S5)		
			Qty	Unit Price	Total Price	Qty	Unit Price	Total Price	Qty	Unit Price	Total Price	Qty	Unit Price	Total Price	Qty	Unit Price	Total Price
1	2	3	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
iv	415V Yard and Sub Station surrounding lighting pole incl on board having minimum MCCB for particular load with capacity as required	1 Set	1	1,19,361	1,19,361	1	1,29,382	1,29,382	1	2,42,441	2,42,441	1	2,29,512	2,29,512	1	1,99,800.00	1,99,800
v	230V AC Distribution board having double pole MCB with capacity as required	1 Set	1	1,19,579	1,19,579	1	18,17,734	18,17,734	1	3,08,581	3,08,581	1	1,31,809	1,31,809	1	1,99,800.00	1,99,800
vi	415V AC Distribution Board for 220V & 48V DC battery charger having minimum MCCB for particular load with capacity as required	1 Set	1	1,19,579	1,19,579	1	3,78,192	3,78,192	1	3,67,773	3,67,773	1	1,31,809	1,31,809	1	1,99,800.00	1,99,800
13	DC BATTERIES, BATTERY CHARGER AND DC DISTRIBUTION BOARD			0	0			0			0	0		0			0
i	220V, 100AH DC battery set alongwith mounting racks, 2 Nos thermometers, 2 Nos thermometers, 2 Nos cell tester	1 Set	1	8,34,957	8,34,957	1	15,31,677	15,23,627	1	9,36,311	9,36,311	1	10,01,874	10,01,874	1	10,10,800.00	10,10,100
ii	48V, 400AH DC battery set alongwith mounting racks, 2 Nos thermometers, 2 Nos thermometers, 2 Nos cell tester	1 set	1	4,18,498	4,18,498	1	5,37,633	5,37,633	1	2,15,422	2,15,422	1	3,28,874	3,28,874	1	2,81,140.00	2,81,140
iii	Electronic Double Float cum Boost Charger 220V DC, 100A with mandatory protections and annunciation	1 Set	1	5,38,000	5,38,000	1	29,20,436	29,20,436	1	8,37,752	8,37,752	1	8,82,252	8,82,252	1	11,12,530.00	11,12,630
iv	Electronic Double Float cum Boost Charger 48V DC, 70A with mandatory protections and annunciation	1 Set	1	4,78,261	4,78,261	1	10,00,551	10,00,551	1	4,37,886	4,37,886	1	4,81,165	4,81,165	1	6,68,050.00	6,78,050
v	Electronic 220V DC Distribution Board with mandatory protections and annunciation	2 Set	2	1,19,579	2,39,140	2	3,69,266	7,34,531	2	3,23,837	6,47,674	2	5,67,165	11,34,330	2	6,44,510.00	12,62,020
vi	Electronic 48V DC Distribution Board with mandatory protections and annunciation	2 Set	2	1,19,570	2,39,140	2	2,59,763	5,17,526	2	1,68,958	3,37,917	2	98,616	1,81,232	2	6,13,023.00	5,72,080
vii	Water Still with stand	1 Set	1	29,855	29,855	1	NA		1	91,519	91,519	1	89,735	89,735	1	2,81,430.00	2,81,430
16	Shed type DG Set 415V 250KVA with Canopy and electronic governor control panel	1 Set	1	2032689	33,22,689	1	60,41,747	60,41,747	1	30,34,915	30,34,915	1	19,77,125	19,77,125	1	27,11,640.00	27,11,650
17	FIRE DETECTION AND EXTINGUISHING SYSTEM				0			0			0	0		0			0
a	FIRE DETECTION SYSTEM :- Fire detection should be such that all the smoke/fire sensors installed in the system should be given individual ID and if any of sensors observe abnormality, its ID should display on LCD screen of detection panel with alarm and annunciation so that the operational personnel target that particular place for fire extinction				0			0			0	0		0			0
i	Addressable Fire detection panel	1 Set	1	4,78,261	4,78,261	1	8,45,631	8,45,631	1	2,12,317	2,12,317	1	5,79,216	5,79,216	1	3,82,460.00	3,82,460
ii	Fire detectors and smoke detectors suitably distributed on the roof of buildings along with wiring up to panel, alarm and annunciation system	1 Set	1	1,19,570	1,19,570	1	8,45,631	8,45,631	1	55,123	55,123	1	69,088	69,088	1	2,26,370.00	2,26,350
b	FIRE EXTINGUISHING SYSTEM				0			0			0			0			0
i	Hydrogen injection fire prevention and extinguishing system for power transformer	1 Set	1	32,28,598	32,28,598	1	50,69,670	50,69,670	1	30,97,196	30,97,196	1	19,50,598	19,50,598	1	33,55,650.00	33,11,650
ii	Fire protection for GIS and control room buildings etc (Portable type fire extinguisher system)	1 Set			0	1	1,69,126	1,69,126	1	1,91,979	1,91,979			0	1	1,98,950.00	1,98,950
iii	a) CO2 Cylinders 9 Kg	15 Nos	15	8,867	1,34,005	15	14,207	2,13,099	15	27,321	4,10,565	15	29,531	3,76,965	15	24,340	3,68,100
	b) CO2 Cylinders 22.5 Kg	10 Nos	10	16,142	1,61,420	10	24,395	2,43,949	10	27,378	2,73,780	10	41,932	4,17,920	10	24,340	2,43,400
iv	a) ABC class dry power type fire extinguisher 6 Kg	5 Nos	5	2,359	11,795	5	3,247	16,235	5	5,709	28,545	10	4,224	42,240	5	5,700	28,500
	b) ABC class dry power type fire extinguisher 9 Kg	5 Nos	5	4,185	20,925	5	5,034	25,169	5	5709	28,545	5	8,101	40,505	5	5,700	28,500
v	a) BC class dry power type fire extinguisher 9 Kg	5 Nos	5	4,185	20,925	5	5,003	25,013	5	36,214	1,71,070	6	11,438	68,160	5	30,420	1,54,100
	b) BC class dry power type fire extinguisher 22.5 Kg	5 Nos	5	8,167	40,835	5	21,150	1,09,150	5	36218	1,71,070	5	16,474	2,57,870	5	30,420	1,54,100
vi	a) Foam type fire extinguisher 9 lit	9 Nos	9	3,167	28,503	9	3,934	35,414	9	36218	3,67,644	9	4,074	36,666	5	30,420	1,54,100
	b) Foam type fire extinguisher 50 ltr	3 Nos	3	9,167	28,501	3	13,152	39,570	3	36,214	1,03,642	3	44,509	1,33,527	5	30,420	1,54,100
vii	Fire buckets with stand (set of 3)	4 Sets	4	11,856	47,424	4	17,251	69,003	4	7,373	29,492	4	8,909	35,636	4	9,510	28,940
viii	Hydrant Spray System, Hydrant System and complete UG & SS Piping and accessories viz outside the Pump house for 2 Nos. 1333GPM, 11, 20.68/14.68/4.6, MWT, Phase Auto Power Transformers as per CBIP Publication No. 295 (Manual on Transformer)	3 Set	3	8,36,566	25,10,915	3	61,28,167	1,33,84,502	3	13,15,611	39,46,831	3	15,10,410	45,31,229	3	29,33,160	88,84,320
18	ILLUMINATION SYSTEM				0			0			0			0			0
i	Illumination with LED luminary system in GIS halls and control room building	1 Job	1	5,56,562	5,56,562	1	18,60,388	18,60,388	1	7,19,678	7,19,678	1	30,20,482	30,20,842	1	65,33,470.00	65,33,470
ii	High Mast lighting system in switchyard and street lighting	1 Job	1	9,56,562	9,56,562	1	42,28,155	42,28,155	1	13,30,647	13,30,647	1	10,23,795	10,23,795	1	15,61,980.00	15,61,980
19	POWER AND CONTROL CABLES				0			0			0			0			0
19.1	(i) 33KV Grade, 185 Sq.mm XLPE insulated SP&CR compact Circular Aluminium conductor single core cable screened armoured with Non magnetic material and PVC Sheathed, conforming to IS: 7098 (Part-II) (armoured upto bus) for terminating 25MVA, 33/0.6KV Station Transformer	0.75 km	0.75	11,80,702	8,86,777	2.75	29,23,885	31,94,412	0.75	54,45,919	23,54,439	0.75	8,15,240	6,11,467	0.75	6,01,840.00	4,51,150
	(ii) Heat Shrinkable termination kits for 185 sq mm XLPE cable	10 nos	10	11,955	1,19,550	10	4,226	42,260	10	11,258	1,12,583	10	7,989	79,890	10	34,540.00	2,80,400
IV 7	3.1 kV Grade PVC insulated Aluminium Conductor Power Cables and Copper Conductor Armoured Control Cables alongwith Lugs, Glands, Straight Joints, Termination Kit etc.				0			0			0			0			0

General Manager (C&D)
HPPTCL, Shimla-5

2.A.34

Sr No	DESCRIPTION OF EQUIPMENT / MATERIAL	Qty /unit	M/S Kanohar Electricals Ltd, Mumbai (BR)			M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (BR)			M/S MAJAJ ELECTRICALS LTD, MUMBAI (BR)			M/S Shah Sons Ltd, Mumbai (BR)			M/S Technar T&D Systems (BR)		
			Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)	
				Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price
1	2	3	16	17	18	19	20	21	22	23	24	25	26	27	29	29	30
	(a) 3.5 Core 630 Sq mm Aluminium conductor armoured cable to connect Station Transformer to LT panel	0.65 KM	0.65	23,12,960	15,18,424	0.65	26,53,715	22,16,484	0.65	2,007	1,366	0.65	31,93,941	20,57,962	0.65	19,68,020.00	12,18,413
	(b) 3.5 Core, 400 Sq mm Aluminium conductor armoured cable to connect DG set to LT panel	0.65 KM	0.65	13,62,337	8,85,502	0.65	21,11,910	13,72,743	0.65	1,795	1,167	0.65	19,77,249	12,85,233	0.65	13,53,180.00	7,49,566
	Terminations for above				0			0	1	4,15,174	4,15,174		-	0	1	2,28,350.00	2,28,350
19.3	Power Copper Cable (PVC)				0			0			0		-	0			0
	(a) 4 C x 16 sq. mm	2.5 km	2.5	1,41,300	1,53,400	2.5	1,78,551	6,61,377	2.5	569,729.60	14,21,824	2.5	8,67,476	21,18,690	2.5	5,48,040.00	13,70,100
	(b) 4 C x 6 sq. mm	1.5 km	1.5	2,47,941	3,61,202	1.5	3,57,986	5,51,977	1.5	2,80,119	4,33,178	1.5	3,74,628	5,62,247	1.5	2,45,479.00	3,68,217
	(c) 2 C x 6 sq. mm	2.5 km	2.5	1,41,000	3,52,738	2.5	2,15,479	5,39,947	2.5	1,68,134	4,21,340	2.5	2,15,215	5,40,643	2.5	2,42,720.00	3,56,400
	(d) 2C x 4 sq. mm	1.5 km	1.5	1,04,435	1,56,653	1.5	1,71,521	2,57,432	1.5	1,23,733	1,85,600	1.5	1,63,469	2,45,203	1.5	3,08,666.00	1,62,999
	(e) 1Cx630 sq. mm Al. XLPE cable	0.25 KM	0.25	5,75,636	1,14,409	0.25	10,32,142	2,58,036	0.25	9,54,362	2,38,590	0.25	9,23,073	2,30,764	0.25	5,48,084.00	1,37,021
	(e) 4Cx400 sq. mm Al. XLPE cable	0.25 KM	0.25	13,53,848	3,61,900	0.25	23,79,640	5,94,141	0.25	20,41,951	5,20,988	0.25	17,93,648	6,48,663	0.25	17,98,104.00	5,24,526
	(e) 1Cx150 sq. mm Al. PVC cable	0.25 KM	0.25	1,72,197	48,549	0.25	2,79,475	67,718	0.25	2,80,843	70,223	0.25	2,87,100	66,780	0.25	1,43,960.00	35,958
	(e) 4Cx70 sq. mm Al. XLPE cable	0.25 KM	0.25	3,35,751	84,188	0.25	5,14,360	1,28,590	0.25	4,38,729	1,09,682	0.25	4,30,503	1,69,126	0.25	1,82,972.00	70,716
	(e) 4Cx35sq. mm Al. XLPE cable	0.25 KM	0.25	1,94,378	48,595	0.25	2,91,118	76,229	0.25	2,69,552.5000	67,013	0.25	2,59,274	63,819	0.25	1,94,451.00	41,103
	(e) Fibre Optical Cable	0.25 MR	0.25	1,19,500	29,893	0.25	2,02,901	50,726	0.25	4,01,278	1,00,319	0.25	2,53,012	63,904	0.25	2,49,480.00	61,370
	(e) LT Control cable (Pvc) 5 pair/wi	0.25 KM	0.25	59,255	14,946	0.25	2,51,012	65,254	0.25	1,47,136	36,784	0.25	30,288	9,662	0.25	2,45,477.00	61,369
	(e) Battery cable 800A	0.5 km	0.5	2,38,143	1,19,510	0.5	NA		0.5	2,00,638	1,00,319	0.5	31,34,841	15,75,971	0.5	3,45,477.00	1,72,739
	Terminations for above				0			0	1	4,01,278	4,01,278		-	0	1	13,45,750.00	13,41,750
19.4	Control Cables (FRLS)				0			0			0		-	0			0
	(i) 2 Cx2.5 sq. mm	2.5 km	2.5	79,266	1,98,972	2	1,30,160	2,72,367	2	72,232	1,68,459	2	1,29,054	2,96,856	2	1,21,500.00	1,93,040
	(ii) 4 Cx2.5 sq. mm	1.5 km	1.5	1,26,503	1,89,802	1.5	2,19,034	3,27,206	1.5	1,26,064	1,89,151	1.5	1,91,193	2,86,819	1.5	91,577.00	1,34,481
	(iii) 7 Cx2.5 sq. mm	1.5 km	1.5	1,16,561	1,16,561	1	3,37,860	3,37,860	1	2,84,651	2,84,651	1	3,37,270	3,37,270	1	1,29,039.00	1,29,039
	(iv) 10 Cx2.5 sq. mm	2.5 km	2.5	2,61,728	6,54,320	2.5	4,47,752	11,68,294	2.5	2,80,893	7,02,233	2.5	3,76,512	9,41,280	2.5	3,42,685.00	8,56,720
	(v) 12 Cx2.5 sq. mm	1.5 km	1.5	3,27,339	4,91,009	1.5	5,42,305	8,13,458	1.5	5436321.6741	5,15,631	1.5	4,41,112	6,62,668	1.5	2,36,340.00	3,54,510
	(vi) 19 Cx2.5 sq. mm	1.0 km	1.0	3,66,367	3,66,367	1	7,03,571	7,03,571	1	4,94,760	4,94,760	1	5,42,415	5,42,415	1	2,36,340.00	2,36,340
	(vii) 18 Cx2.5 sq. mm	1.0 km	1.0	4,64,468	4,64,468	1	91,559	91,559	1	9,20,333	5,78,000	1	5,34,328	6,34,328	1	3,67,152.00	3,67,152
	(viii) 37 Cx2.5 sq.mm	1.0 km	1.0	8,62,616	8,62,616	1	9,76,859	9,76,859	1	7,58,051	7,58,051	1	8,68,059	8,68,059	1	4,23,990.00	4,23,990
	(ix) 10 Cx4 Sq mm	1.5 km	1.5	86,129	86,129	1	1,97,573	1,97,573	1	1,68,342	1,68,342	1	2,78,008	2,78,008	1	1,29,019.00	1,29,019
	(x) 5 Cx1.5 sq.mm	1.0 km	1.0	1,23,975	1,23,975	1	2,04,443	2,04,443	1	1,10,888	1,10,888	1	2,27,271	2,27,271	1	1,29,019.00	1,29,019
	(xi) 7 Cx 4 sq.mm	1.5 km	1.5	3,47,294	5,20,926	1.5	6,49,082	12,46,493	1.5	3,29,371	4,89,557	1.5	5,22,038	7,83,405	1.5	3,42,689.00	2,14,600
	(xii) 7Cx10 sq.mm	2.5 km	2.5	4,16,496	10,40,240	2.5	4,39,126	10,98,320	2.5	2,80,451	10,69,342	2.5	10,16,364	25,41,905	2.5	5,22,960.00	10,04,975
	Terminations for above				0			0			0		-	0	1	13,53,450.00	17,17,600
20	EARTH MAT & ASSOCIATED ACESSORIES				0			0			0		-	0			0
	(a) M. S. Electrolitic 32mm dia	1000 kg	1000	115	1,15,000	1000	91	91,000	1000	66	66,000	1000	102	1,02,000	1000	569.00	5,69,000
	(a) M. S. Flat 40 x6 mm for risers	500 kg	500	83	41,500	500	90	44,500	500	63	31,722	500	102	51,000	500	71.00	35,500
	(a) M.S. Rod 40mm dia for main earthmat	5 MT	5	5,37,600	26,88,000	5	8,94,442	44,91,212	5	6,56,572	33,31,828	5	11,95,127	49,75,503	5	5,69,450.00	28,47,250
	(a) 75 x 12mm GI. Flat	200 kg	200	83	16,600	200	115	23,000	200	87	17,426	200	814	1,62,800	200	77.00	15,436
	(a) 50 x 6mm GI Flat	300 kg	300	83	24,900	300	115	34,500	300	87	26,109	300	271	81,300	300	77.00	23,100
	(a) Braided Copper 25 x 2mm for double flexible risers from flat bars to equipment	350 Mts	350	1,196	4,18,600	350	381	1,33,186	350	141	49,350	350	849	2,97,150	350	1,140.00	3,99,000
21	Miscellaneous items, Earthing Material and Erection Hardware such as BPI, Insulator Stands, Disc Insulator, Hardware, Spacers, Conductor(s), Cable Trays, Clamps, Connectors including Equipment Connectors, Junction Box, Earthwire, Lightning Protection, Buried Cable Trenches / Pipes for Equipment and Lighting, Nuts & Bolts, all Accessories, etc for completion of Scope of Work.	LS	1	47,62,111	47,62,111	1	53,73,086	53,73,086	1	28,31,016	28,31,016	1	39,42,494	39,42,494	1	57,53,000.00	57,53,000
22	a) EOT crane for 220/132KV Transformer 150/30 MT with permanent fixed ladder from ground to EOT crane. (Detailed)	1 Set			0			0	1	18,21,181	18,21,181	1	Awaited		0		0
	B) EOT crane for 220KV & 132KV GIS Hall 5 MT with permanent fixed ladder from ground to EOT crane.	2 Set	2	17,93,553	35,87,106	2	22,04,388	44,12,710	2	10,58,584	23,73,167	2	14,36,852	28,72,705	2	11,91,700.00	22,00,400
	TOOLS AND PLANTS				0			0			0	0	-	0			0
a	Hot Vacuum Filtration Machine for Transformer Oil Filtration, capacity 1000 LPH	1 Set	1	23,81,405	23,81,405	1	17,55,185	17,55,185	1	27,03,334	27,03,334	1	4,11,901	4,11,901	1	28,34,700.00	28,34,700
b	Clip - on Volt (Digital) (0 - 300 - 600 V)	2 Nos	2	5,908	11,816	2	6,279	12,558	2	13,517	27,033	2	6,581	13,162	2	11,980.00	23,960
c	Multimeter Digital	2 Nos	2	5,878	11,756	2	5,520	11,041	1	2,251	4,502	2	4,944	9,888	2	6,890.00	13,780
d	Earth Resistance Tester (Four terminal 3g/4g type with data storage and manual	1 Nos	1	1,19,518	1,19,518	1	7,452	7,452	1	18,021	18,021	1	24,715	24,715	1	18,318.00	18,318
e	Motorised Insulation tester (Megger) 5kV & 2.5kV with voltage control switch	1 Set	1	3,08,719	3,08,719	1	15,836	15,836	1	54,061	54,061	1	18,124	18,124	1	58,800.00	58,800
f	Phase sequence meter	2 No	2	29,452	58,904	2	7,560	3,121	2	14,080	28,160	2	6,581	13,162	2	14,370.00	28,740
g	Oil testing kit	1 Set	1	21,452	21,452	1	1,01,760	1,01,760	1	5,06,913	5,06,913	1	65,904	65,904	1	5,13,780.00	5,13,780
vii	Earthing sticks	2 Set	2	29,452	58,904	2	10,740	10,215	2	20,215	40,350	2	5,273	10,546	2	20,550.00	41,100
h	Aluminium ladder 9 mtr. Long	3 Nos	3	29,452	88,356	3	16,913	50,738	3	49,056	1,38,167	3	32,952	98,855	3	18,250.00	54,750
i	Movable M. Rectangular Aluminium Ladder extending upto 10M long	1 Nos	1	1,19,570	1,19,570	1	16,146	16,146	1	3,68,558	3,68,558	1	66,904	66,904	1	1,71,260.00	1,71,260
ix	10 Spanner Set from 6 to 32mm	1 Set	1	1,196	1,196	1	22,426	22,426	1	5,869	5,869	1	6,128	6,128	1	5,130.00	5,130

General Manager (C&D)
HPPTCL, Shimla-5

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Sr. No	DESCRIPTION OF EQUIPMENT / MATERIAL	Qty Unit	M/S Kanohar Electricals Ltd. Meerut (U1)			M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (U2)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (U3)			M/S Bhel Bhel Ltd. Mumbai (U4)			M/S Toshiba T&D System (U5)		
			Qty.	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty.	EXW Price (INR)	
				Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price
1	2	3	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
xv	Ring Spanner set 6mm to 75mm	1 Set	1	5,195	5,195	1	44,612	44,612	1	10,158	10,158	1	2,467	2,467	1	86,275.00	10,275
xvi	Cleaning set 16 sq mm to 630 sq mm	1 Set	1	5,976	5,976	1	22,220	22,220	1	67,583	67,583	1	57,696	57,696	1	68,500.00	69,570
xvii	Crimping plier	2 Nos	2	5,976	11,952	2	1,466	2,933	2	3,379	6,758	2	165	330	2	1,710.00	3,420
xviii	Wire Stripper	4 Nos	4	5,976	23,912	4	1,261	5,044	4	563	2,253	4	240	960	4	2,280.00	9,120
xix	Insulating Plier 8" long	4 Nos	4	5,195	4,156	4	512	2,049	4	563	2,253	4	240	960	4	570.00	2,280
xx	Nose plier	4 Nos	4	5,196	4,784	4	413	1,651	4	563	2,253	4	240	960	4	570.00	2,280
xxi	Cutting plier	4 Nos	4	5,195	4,684	4	655	2,781	4	1,690	6,758	4	826	3,296	4	1,710.00	6,840
xxii	Portable drill machine 4mm to 12mm	1 No	1	5,976	5,976	1	6,297	6,297	1	13,517	13,517	1	8,639	8,639	1	13,700.00	13,700
xxiii	Pedestal drill machine 16mm to 32mm	1 No	1	11,956	11,956	1	1,12,559	1,12,559	1	1,01,375	1,01,375	1	32,953	32,953	1	3,02,350.00	1,00,785
xxiv	Air blower	1 No	1	5,976	5,976	1	8,453	8,453	1	10,701	10,701	1	8,397	8,397	1	11,400.00	11,400
xxv	Vacuum Cleaner wet & dry	1 No	1	5,976	5,976	1	26,911	26,911	1	8,011	8,011	1	8,236	8,236	1	13,680.00	13,680
xxvi	Screw driver set	2 Nos	2	5,196	2,592	2	1,294	2,588	2	569	1,126	2	488	830	2	570.00	1,140
xxvii	Pulling & lifting machine 2.5(t)	2 Nos	2	29,892	59,784	2	19,808	39,617	2	20,425	38,847	2	24,715	49,430	2	45,600.00	91,380
xxviii	Electric conductor cutter	1 kg	1	5,976	5,976	1	6,339	6,339	1	563	563	1	3,296	3,296	1	5,700.00	5,700
xxvii	Electric grinder	1 No	1	11,956	11,956	1	4,326	4,326	1	8,011	8,011	1	24,715	24,715	1	25,650.00	25,650
xxix	Bench vice	2 Nos	2	5,976	11,952	2	17,713	32,426	2	8,011	14,022	2	83,381	1,66,762	2	3,800.00	5,700
xxxii	D- Shackle heavy duty	5 Nos	5	598	2,990	5	949	4,744	5	3,379	16,896	5	824	4,120	5	4,370.00	21,350
xxxi	D Shackle small	5 Nos	5	598	2,990	5	423	2,113	5	2,816	14,080	5	660	3,300	5	950.00	4,800
xxxii	U Bolt Heavy duty	5 Nos	5	598	2,990	5	593	965	5	563	2,814	5	330	1,650	5	4,370.00	21,350
xxxii	U Bolt small	5 Nos	5	598	2,990	5	135	647	5	563	2,814	5	248	1,240	5	855.00	4,275
xxxiv	Hexahmada steel ring	5 Nos	5	598	2,990	5	1,309	7,547	5	8,011	45,536	5	330	1,650	5	8,360.00	42,625
xxxv	Readymade PP rope sling	5 Nos	5	598	2,990	5	392	4,042	5	3,942	19,712	5	83	415	5	5,700.00	28,500
xxxvi	Pipe bending machine	1 No	1	2,39,140	2,39,140	1	14,103	14,103	1	9,012	9,012	1	82,581	82,581	1	2,850.00	2,850
xxxvii	Pipeline wrench up to 500mm	1 No	1	29,892	29,892	1	66,675	66,675	1	13,517	13,517	1	16,477	16,477	1	13,120.00	13,120
xxxviii	Rubber Hand Gloves	12 pair	10	598	5,980	12	216	2,598	12	1,126	11,264	10	2,471	24,710	10	2,850.00	28,500
xxxix	Flat file	5 Nos	5	598	2,990	5	336	1,682	5	2,253	11,264	5	248	1,240	5	456.00	2,280
xxxx	Round File	5 Nos	5	598	2,990	5	671	3,354	5	1010.71819	11,264	5	330	1,650	5	5,320.00	6,650
xxxxi	Triangular File	5 Nos	5	598	2,990	5	147	733	5	2,253	11,264	5	248	1,240	5	5,320.00	37,125
xxxxii	Hacksaw frame	5 Nos	5	598	2,990	5	1,311	6,555	5	563	2,856	5	824	4,120	5	570.00	2,850
xxxxiii	Mechanical jack 50T	4 Nos	4	9,565	38,259	4	60,328	2,41,312	4	20,028	80,111	4	2,47,141	9,88,564	4	29,640.00	1,14,160
xxxxiv	Hydraulic Jack 50T	4 Nos	4	20,913	83,652	4	62,100	2,48,813	4	22,028	90,111	4	4,15,903	16,47,614	4	45,670.00	1,82,680
xxxxv	Feeling 'A' type aluminium ladder extended up to 6 M long	1 Nos	1	1,79,355	1,79,355	1	42,262	42,262	1	20,424	20,424	1	16,477	16,477	1	6,08,760.00	1,08,480
24	ACSR Mosek Conductor (54/7/3.1 mm) for Extending the PG Bus -Bay from HPPTCL to Existing AIS Sub Station	1.5 kMs	1.5	4,10,456	6,27,744	1.5	5,01,319	7,51,068	1.5	4,20,617	6,41,826	1.5	4,30,025	6,45,038	1.5	3,42,525.00	5,13,788
25	Semi-double water pump with 50HP mono cc set – delta starter and wiring complete in all respect	1 Set	1	1,19,570	1,19,570	1	62,154	62,154	1	3,32,617	3,32,617	1	8,02,383	8,02,383	1	3,56,605.00	2,56,996
26	Visual Monitoring System complete with all accessories	1 Set	1	11,91,702	11,91,702	1	43,37,281	43,37,281	1	56,31,943	56,31,943	1	99,91,311	99,91,311	1	17,11,400.00	17,11,400
27	Digital PLCC system	1 Set	1	11,95,702	11,95,702	1	89,57,916	89,57,916	1	79,28,932	79,28,932	1	81,58,457	81,58,457	1	21,08,600.00	21,00,620
28	Inter utility meters with on line software for such feeders bays	8 Nos	8	4,74,291	36,26,248	8	2,53,272	20,26,031	8	1,75,398	14,03,189	8	7,80,600	62,84,900	8	4,28,150.00	34,25,200
29	ANY OTHER ITEM WHICH IN THE OPINION OF THE BIDDER IS ESSENTIAL AND HE MAY LIKE TO QUOTE				0			0			0			0			0
a	Auxiliary bus bar arrangement to connect the existing spare transformer with proposed transformer bank	1 set	1	5,31,852	5,97,852	1	42,29,155	42,29,155			0			0	1	3,42,50,470.00	1,42,50,470
b	220kV GIS BUS duct with One Number Horizontal and One Number Vertical bend	30 RM			0			0			0			0	30	91,340.00	27,40,200
c	132kV GIS BUS duct with One Number Horizontal and One Number Vertical bend	30 RM			0			0			0			0	30	3,71,200.00	51,37,800
d	220/33kV Interconnecting Transformers				0			0			0			0	1	4,31,210.00	4,31,210
e	Bus Duct Support								58	87,295	16,71,318			0			
30	BOQ FOR SINGLE PHASE AIS BAY TO KEEP THE SPARE TRANSFORMER ENERGIZED										0			0			
31	Equipment										0			0			
a	245 Circuit Breaker (Single Phase), 245 kV, 4000 A, 50 kA, for 3 Ø system								1	8,28,227	8,28,227			0			
b	245kV, 2000A isolator with 1 earth switch								1	8,57,215	8,57,215			0			
c	245kV, 2000A isolator with 2 earth switch								1	6,91,573	6,91,573			0			
d	245kV Current Transformers (Ratio 600-400/1-1-1-1-1-1A)								1	3,86,506	3,86,506			0			
e	120kV Zinc Oxide Gapless Surge Arrestor with earthing base, counter and leakage meter								1	97,916	97,916			0			
f	Post Insulator								1	17,609	17,609			0			
g	Control and Relay panel for 1Ø/3Ø phase Transformer								1	6,90,189	6,90,189			0			
32	Clamp & Connectors										0			0			
a	ACSR "MOOSE" Conductor								40	438	17,517			0			
b	T- Connector to take two single moose ACSR to single moose ACSR (jumper from Bus Bar to isolator)								3	6,902	0,902			0			
c	Terminal Clamp for 245kV Circuit Breaker suitable for single moose ACSR								2	6,902	13,804			0			

General Manager (C&D)
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Sr. No	DESCRIPTION OF EQUIPMENT / MATERIAL	Qty./Unit	M/S Kanohar Electricals Ltd. Meerut (E5)			M/S Elnyan Indus Solutions Pvt. Ltd. New Delhi (E6)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (E1)			M/S Star Ltd. Mumbai (E4)			M/S Toshiba T&D System (E9)		
			Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)	
				Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price
1	2	3	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
a	Terminal Clamp for 245kV CURRENT TRANSFORMER suitable for Single moose ACSR								2	8,972	17,945			0			
e	Through Type terminal Connector for CVT for single moose ACSR Conductor								1	8,972	8,972			0			
f	Through Type Clamp for 120 kV, LA suitable for Single Moose ACSR Conductor								1	8,972	8,972			0			
g	Clamp for transformer Bushing suitable for Single Moose ACSR Conductor								1	9,281	9,281			0			
(viii)	Equipment Structure									-	0			0			
b	245kV, 2000A Isolator with 1 earth switch								2.00	85,589	99,913			0			
b	245kV, 2000A Isolator with 2 earth switch								1.00	85,589	99,913			0			
c	245kV Current Transformer (Ratio 600 - 400/1 - 1 - 1 - 1 - 1 A)								0.33	85,589	27,367			0			
d	120kV dry cleaning Gapless Surge Arrester with earth mounting base, counter and leakage meter								0.33	85,589	11,128			0			
g	Post Insulator								0.15	85,589	12,838			0			
c	220 kV 1 Phase spare transformer CB relay panel										0			0			
	132 kV 1 Phase spare transformer CB relay panel										0			0			
	220/132 kV 1 Phase spare transformer protection panel										0			0			
	33 kV NCT										0			0			
	Solar Grid lighting for control room & conference room										0			0			
	Joint Box										0			0			
	Approach cable (24F) single mode armoured PO cable										0			0			
	HT Cable										0			0			
	Oil Flow type Heat Convector 2000W 230 Volt AC										0			0			
	400 mmsq. (50 x 8 sq mm) Cu flat										0			0			
	300 x 300, 8 mm dia MS stand										0			0			
1	MANDATORY SPARES				0			0			0			0			0
1.1	MANDATORY SPARES FOR POWER TRANSFORMER				0			0			0			0			0
i	220 kV Oil to Air bushing complete with metal parts and gasket	3 No.	1	5,10,456	5,10,456	1	4,53,745	4,53,745	1	6,64,945	6,64,945	1	7,59,217	7,59,217	1	1,64,250.00	1,64,250
ii	132 kV Oil to Air bushing complete with metal parts and gasket	3 No.	1	7,39,041	7,39,041	1	4,70,500	4,70,500	1	3,84,492	3,84,492	1	4,84,075	4,84,075	1	1,70,150.00	1,70,150
iii	Buchholz relay	2 No.	2	23,913	47,826	2	11,213	22,426	2	8,884	17,769	2	9,839	19,678	2	7,300.00	14,600
iv	Winding Temperature Indicator	2 No.	2	25,871	51,742	2	34,157	68,313	2	26,484	52,968	2	29,361	58,722	2	22,260.00	44,520
v	Oil Temperature Indicator	2 No.	2	23,913	47,826	2	27,423	54,846	2	21,269	42,538	2	23,578	47,156	2	17,910.00	35,820
vi	Set of Valves of 38 Sizes	1 No. of each type	1	47,826	47,826	1	2,33,922	2,33,922	1	1,81,377	1,81,377	1	2,01,074	2,01,074	1	1,53,125.00	1,53,125
vii	Complete set of gaskets used	1 Set	1	47,826	47,826	1	1,00,228	1,00,228	1	77,714	77,714	1	86,154	86,154	1	65,550.00	65,550
viii	Oil sampling bottles	3 Nos.	5	9,578	47,890	3	10,006	30,017	3	7,758	23,274	3	8,681	26,043	3	6,330.00	18,990
ix	Pressure relief device	2 No.	2	11,956	23,913	2	27,774	55,548	2	21,531	43,062	2	23,874	47,748	2	18,250.00	36,500
x	Magnetic Oil Level Gauge	2 No.	2	11,956	23,913	2	15,871	31,742	2	12,306	24,612	2	13,643	27,286	2	10,425.00	20,850
xi	Remote log gauge indicator	2 No.	2	11,956	23,913	2	73,283	26,565	2	65,299	22,209	2	11,419	22,838	2	8,690.00	17,380
xii	Oil surge relay	2 No.	2	11,956	23,913	2	50,373	1,53,745	2	39,058	78,115	2	43,298	86,596	2	32,500.00	65,000
xiii	Short Pressure box for winding temperature	2 No.	3	21,407	59,784	2	NA		3	1,31,759	2,67,517	3	17,668	34,936	2	INCL IN WTI	
xiv	Oil storage tank with accessories (15 KL)	1 No.	0	17,93,553	35,07,106	2	16,19,692	32,29,383	2	13,37,567	26,75,134	2	13,67,340	27,29,864	2	10,13,120.00	21,94,240
xv	OLTC displacement tools	5 Nos	5	29,837	1,61,460	5	NA		5	1,33,759	6,16,794	5	1,15,062	5,78,310	5	87,680.00	4,38,400
xvi	Plant/survey plates for reflection spanning	LS			0	1	NA		1	1,33A	1,33A	0	4,316	0	1	NOT APPLICABLE	
xvii	Exhaust fan used to break air	4 Nos	4	17,935	71,740	4	10,19,808	40,75,340	4	10,701	42,803	4	12,719	50,864	4	9,710.00	38,840
xviii	Oil temperature sensing probe with capillary	2 Nos.	2	5,978	11,956	2	NA		2	3,33,759	2,67,517	2	16,372	32,424	2	INCL IN OTI	
xix	Pressure relief device for OLTC	1 No.	1	11,956	11,956	1	2,510	2,510	1	3,605	3,605	1	4,190	4,190	1	3,310.00	3,310
2	COMMON SPARES, MAINTENACE TOOLS FOR 220KV & 132KV G/S				0			0			0			0			0
2.1	220kV GIS				0			0			0			0			0
i	SF_6 Gas Pressure Relief Devices 3 Nos. of each type	1 No			0			0			0			0	1	13,010.00	13,010
ii	Pressure Gauges alongwith Coupling Device	1 No. of each type			0			0			0			0	1	17,860.00	17,860
iii	Rubber Gaskets, "O" Rings and Seals for SF_6 gas	1 No. of each type			0			0			0			0	1	38,400.00	38,400
iv	Density Monitor for SF_6 Gas	1 No			0			0			0			0	1	28,980.00	28,980
v	Air Types of Control Valves for SF_6 Gas	1 No. of each type			0			0			0			0	1	22,840.00	22,840
vi	Moisture Meter for SF_6 Gas with Probe Rings	1 No. of each type			0			0			0			0	1	14,040.00	14,040
vii	SF_6 Gas	20% of total weight			0			0			0			0	1	1,14,720.00	2,14,720
viii	Enclosure, Hex screws and Rubber Gasket replacement set of each Phase of Bus Bar Compartment	1 No. of each type			0			0			0			0	1	4,04,500.00	3,04,500

General Manager (C&D)
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Sr. No.	DESCRIPTION OF EQUIPMENT / MATERIAL	Qty./unit	M/S Kalrabhai Electricals Ltd. Mansa (HP)			M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (DL)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (MH)			M/S Blue Star Ltd. Mumbai (MH)			M/S Tarahna R&D System (UP)		
			Qty.	EXW Price (INR)		Qty.	EXW Price (INR)		Qty.	EXW Price (INR)		Qty.	EXW Price (INR)		Qty.	EXW Price (INR)	
				Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price
1	2	3	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
ix	Locking Device to keep the Disconnectors (Isolators) and Earthing Switches in CLOSE or OPEN Position inside of removal of the Closing Mechanism	1 Set			0			0			0			0	1	22,830.00	22,830
x	Gas Evacuating and Refilling Device with storage capacity of a complete set of 220KV GIS Bay including Gas Sections of all Bus Bar and Associated Equipments	1 Set			0			0			0			0	1	60,85,540.00	60,85,540
xi	Gas Leakage Monitor	1 No.			0			0			0			0	1	28,470.00	28,470
xii	Dew Point Meter and Portable PD Monitoring System for Gas Insulated Switchgear	1 No.			0			0			0			0	1	33,39,436.00	33,39,436
2.2	132KV GIS EQUIPMENT				0			0			0			0			0
i	SF6 Gas Pressure Relief Devices (3 Nos. of each type	3 No.			0			0			0			0	1	13,000.00	13,000
ii	Pressure Gauge alongwith Coupling Device	1 No. of each type			0			0			0			0	1	57,850.00	57,850
iii	Rubber Gaskets, 'O' Rings and Seals for SF_6 gas	1 No. of each type			0			0			0			0	1	25,000.00	25,000
iv	All Types of Control Valves for SF_6 Gas	1 No. of each type			0			0			0			0	1	22,835.00	22,835
v	Enclosure, insulators and Bus Bar to radiate one section of each Phase of Bus Bar Compartment	1 No. of each type			0			0			0			0	1	2,28,350.00	2,28,350
vi	Molecular Filter for SF_6 Gas with Filter Bags	1 No. of each type			0			0			0			0	1	14,140.00	14,140
vii	SF6 gas	20% of total weight			0			0			0			0	1	2,38,620.00	2,38,620
3	SPARES FOR CIRCUIT BREAKER				0			0			0			0			0
3.1	220KV GIS CIRCUIT BREAKER				0			0			0			0			0
i	Complete circuit breaker pole of each type and rating complete with interrupter, main circuit enclosure, main tanking box and operating mechanism	1 No.			0			0			0			0	1	15,18,530.00	15,18,530
ii	Rubber gasket, 'O' rings and seals of SF6 gas of each type	1 Set			0			0			0			0	1	8,900.00	8,900
iii	Grading Capacitor as applicable (3 Nos. of each type)	1 Set			0			0			0			0	1	22,150.00	22,150
iv	Closing Coils with resistor as applicable (3 Nos. of each type)	1 Set			0			0			0			0	1	22,150.00	22,150
v	Molecular Filter for SF6 Gas with Filter Bags	10% of total quantity			0			0			0			0	1	1,370.00	1,370
vi	Density/ pressure monitoring system (3 Nos. of each type)	1 Set			0			0			0			0	1	66,770.00	66,770
vii	Relays, Power Contactors, push Buttons, timers & MCB etc of each type and rating	1 Set			0			0			0			0	1	1,06,160.00	1,06,160
viii	Closing assembly/ valve (3 nos. of each type)	1 Set			0			0			0			0	1	NOT APPLICABLE	
ix	Trip assembly/ valve (3 nos. of each type)	1 Set			0			0			0			0	1	NOT APPLICABLE	
x	Pressure Switches (3 nos. of each type)	1 Set			0			0			0			0	1	66,770.00	66,770
xi	Auxiliary Switch Assembly (3 nos. of each type)	1 Set			0			0			0			0	1	22,835.00	22,835
xii	Operation Counter	1 No.			0			0			0			0	1	1,370.00	1,370
xiii	Pulse shut machism (3 nos. of each type)	1 Set			0			0			0			0	1	13,015.00	13,015
xiv	Anti-tropical Observing window	1 Set			0			0			0			0	1	NOT APPLICABLE	
xv	Spring operating mechanism, cut pins with all necessary connecting spares etc	1 Set			0			0			0			0	1	3,35,300.00	3,35,300
xvi	Coupling device for pressure gauge cum switch for connecting gas handling plant (3 Nos. of each type)	1 Set			0			0			0			0	1	80,590.00	80,590
3.2	132KV GIS CIRCUIT BREAKER				0			0			0			0			0
i	Complete circuit breaker pole of each type and rating complete with interrupter, main circuit enclosure, main tanking box and operating mechanism	1 No.			0			0			0			0	1	22,01,580.00	22,01,580
ii	Rubber gasket, 'O' rings and seals of SF6 gas of each type	1 Set			0			0			0			0	1	8,900.00	8,900
iii	Grading Capacitor as applicable (3 Nos. of each type)	1 Set			0			0			0			0	1	22,150.00	22,150
iv	Closing Coils with resistor as applicable (3 Nos. of each type)	1 Set			0			0			0			0	1	22,150.00	22,150
v	Molecular Filter for SF6 Gas with Filter Bags	10% of total quantity			0			0			0			0	1	1,370.00	1,370
vi	Density/ pressure monitoring system (3 Nos. of each type)	1 Set			0			0			0			0	1	66,770.00	66,770
vii	Relays, Power Contactors, push Buttons, timers & MCB etc of each type and rating	1 Set			0			0			0			0	1	70,700.00	70,700
viii	Closing assembly/ valve (3 nos. of each type)	1 Set			0			0			0			0	1	NOT APPLICABLE	
ix	Trip assembly/ valve (3 nos. of each type)	1 Set			0			0			0			0	1	NOT APPLICABLE	
x	Pressure Switches (3 nos. of each type)	1 Set			0			0			0			0	1	66,770.00	66,770
xi	Auxiliary Switch Assembly (3 nos. of each type)	1 Set			0			0			0			0	1	22,835.00	22,835
xii	Operation Counter	1 No.			0			0			0			0	1	1,370.00	1,370

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Sr No	DESCRIPTION OF EQUIPMENT / MATERIAL	Qty./unit	M/S Kanohar Electricals Ltd. Meerut (UP)			M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (DL)			M/S BAJAJ ELECTRICALS LTD. MUNDRA (GJ)			M/S Bhel Start Ltd. Haridwar (UK)			M/S Toshiba T&D System (TN)		
			Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)	
				Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price
1	2	3	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
xv	Pt. curve and diagram (3 nos. of each type)	1 Set			0			0			0			0	1	18,000.00	18,000
xvi	Window upper Observing window	1 Set			0			0			0			0	1	NOT APPLICABLE	
xvii	Spring operating mechanism, complete with all necessary operating accessories	1 Set			0			0			0			0	1	3,25,000.00	3,25,000
xviii	Cross-jig device for pressure gauge no.8 switch for connecting gas handling plant (3 nos. of each type)	1 Set			0			0			0			0	1	88,800.00	88,800
4	SPARES FOR ISOLATOR AND EARTH SWITCH				0			0			0			0			0
4.1	220kV ISOLATOR AND EARTH SWITCH				0			0			0			0			0
i	Complete set of 3 Nos. of single phase/1 Nos. of three phase disconnector viz main circuit enclosure and driving mechanism	1 Set			0			0			0			0	1	8,47,750.00	8,47,750
ii	Complete set of 3 Nos. or single phase/1 Nos. of three phase earthing switch viz main circuit enclosure and driving mechanism	1 Set			0			0			0			0	1	2,31,750.00	2,31,750
iii	Copper contact fingers for disconnector male and female contact for one complete (3 phase) disconnector of each type and rating	1 Set			0			0			0			0	1	3,82,650.00	3,82,650
iv	Copper contact fingers for earthing switch male and female contact for one complete (3 phase) disconnector of each type and rating	1 Set			0			0			0			0	1	1,15,600.00	1,15,600
v	Limit switches and auxiliary switches for complete three phase equipment				0			0			0			0			0
	a) For isolator	3 Set			0			0			0			0	3	10,270.00	30,810
	b) For earth switch	1 Set			0			0			0			0	1	3,425.00	3,425
vi	Motor housing bearing assembly for complete three phase equipment				0			0			0			0			0
	a) For isolator	3 Set			0			0			0			0	3	30,675.00	91,995
	b) For earth switch	1 Set			0			0			0			0	1	NOT APPLICABLE	
vii	Bearing for three phase equipment				0			0			0			0			0
	a) For isolator	3 Set			0			0			0			0	3	33,330.00	99,990
	b) For earth switch	1 Set			0			0			0			0	1	NOT APPLICABLE	
viii	Interlocking coil with resistor, timers, key interlock for complete three phase	1 Set			0			0			0			0	1	10,275.00	10,275
ix	Relays, Power Contactors, push Buttons, timers & MCB etc of each type and rating				0			0			0			0			0
	a) For isolator	3 Set			0			0			0			0	3	15,410.00	46,230
	b) For earth switch	1 Set			0			0			0			0	1	15,410.00	15,410
x	Auxiliary Switch Assembly with NO + NC (3 nos. of each type)	1 Set			0			0			0			0	1	12,330.00	12,330
4.2	132kV ISOLATOR AND EARTH SWITCH				0			0			0			0			0
i	Complete set of 3 Nos. of single phase/1 Nos. of three phase disconnector viz main circuit enclosure and driving mechanism	1 Set			0			0			0			0	1	2,74,000.00	2,74,000
ii	Complete set of 3 Nos. or single phase/1 Nos. of three phase earthing switch viz main circuit enclosure and driving mechanism	1 Set			0			0			0			0	1	1,28,450.00	1,28,450
iii	Copper contact fingers for disconnector male and female contact for one complete (3 phase) disconnector of each type and rating	1 Set			0			0			0			0	1	1,13,690.00	1,13,690
iv	Copper contact fingers for earthing switch male and female contact for one complete (3 phase) disconnector of each type and rating	1 Set			0			0			0			0	1	41,960.00	41,960
v	Limit switches and auxiliary switches for complete three phase equipment				0			0			0			0			0
	a) For isolator	3 Set			0			0			0			0	3	10,275.00	30,825
	b) For earth switch	1 Set			0			0			0			0	1	3,425.00	3,425
vi	Motor housing bearing assembly for complete three phase equipment				0			0			0			0			0
	a) For isolator	3 Set			0			0			0			0	3	30,805.00	91,845
	b) For earth switch	1 Set			0			0			0			0	1	NOT APPLICABLE	
vii	Bearing for three phase equipment				0			0			0			0			0
	a) For isolator	3 Set			0			0			0			0	3	32,940.00	97,950
	b) For earth switch	1 Set			0			0			0			0	1	NOT APPLICABLE	
viii	Interlocking coil with resistor, timers, key interlock for complete three phase	1 Set			0			0			0			0	1	10,275.00	10,275
ix	Relays, Power Contactors, push Buttons, timers & MCB etc of each type and rating				0			0			0			0			0
	a) For isolator	3 Set			0			0			0			0	3	15,410.00	46,230
	b) For earth switch	1 Set			0			0			0			0	1	15,410.00	15,410
x	Auxiliary Switch Assembly with NO + NC (3 nos. of each type)	1 Set			0			0			0			0	1	12,330.00	12,330
5	SPARES FOR CURRENT TRANSFORMER				0			0			0			0			0

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Sr. No.	DESCRIPTION OF EQUIPMENT / MATERIAL	Qty./unit.	M/S Kalpitar Electricals Ltd. Meerut (S5)			M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (S6)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (S7)			M/S Blue Star Ltd. Mumbai (S8)			M/S Toshiba SEC System (S9)		
			Qty.	Unit Price	Total Price	Qty.	Unit Price	Total Price	Qty.	Unit Price	Total Price	Qty.	Unit Price	Total Price	Qty.	Unit Price	Total Price
1	2	3	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
i	220 KV, single phase current transformer ratio 2000-1000-500A/1-1-1-1-1A complete with mounting hardware	2 Nos			0			0			0			0	2	5,35,450.00	10,70,900
ii	220 KV, single phase current transformer ratio 800-400A/1-1-1-1-1A complete with mounting hardware	2 Nos			0			0			0			0	2	6,42,950.00	12,85,900
iii	220 KV, single phase current transformer ratio 1600-800A/1-1-1-1-1A complete with mounting hardware	2 No			0			0			0			0	2	5,90,900.00	11,78,200
iv	132 KV, single phase current transformer ratio(1600-800-400)/1-1-1-1-1A complete with mounting hardware	4 No			0			0			0			0	4	3,88,200.00	15,52,400
v	132 KV, single phase current transformer ratio(800-400)/1-1-1-1-1A complete with mounting hardware	2 No			0			0			0			0	2	4,64,100.00	9,28,200
vi	132 KV, single phase current transformer ratio 2000-1000/1-1-1-1-1A complete with mounting hardware	1 No			0			0			0			0	1	4,22,450.00	4,22,450
vii	33 KV, single phase current transformer ratio 1000/1-1-1-1A complete with mounting hardware	2 Nos			0	3	42,771	1,27,312	3	1,32,600	3,97,800			0	3	98,650.00	2,95,950
6	SPARES FOR VOLTAGE TRANSFORMER AND CAPACITIVE VOLTAGE TRANSFORMER				0			0			0			0			0
i	220 KV, single phase voltage transformer ratio220/√3/110/√3/110/√3 KV, with mounting hardware	3 No	0	3,69,933	0,39,064			0			0			0	3	13,14,650.00	39,40,950
ii	132 KV, single phase capacitive voltage transformer ratio 132kV/√3/110V/√3/110V/√3 with mounting hardware	3 Nos	2	1,79,305	3,58,610	2	3,10,916	6,21,831			0			0	2	1,97,320.00	3,94,640
7	SPARES FOR SURGE ARRESTOR				0			0			0			0			0
i	108kV Zinc Oxide Gapless Surge Arrestor with counter and leakage meter	3 Nos	3	50,219	1,50,657	3	84,529	2,53,586	3	59,133	1,77,400	3	49,200	1,47,600	3	54,900.00	1,64,700
ii	120kV Zinc Oxide Gapless Surge Arrestor with counter and leakage meter	1 Nos	1	29,871	29,871	1	69,341	69,341	1	45,056	45,056	1	52,772	52,772	1	41,100.00	41,100
8	SPARES FOR DG SET				0			0			0	1	2,10,500	2,10,500			0
i	Fuel filters	3 Nos	2	5,978	11,934	3	22,719	68,347	3	3,650	5,999	3	Included in S		3	570.00	1,710
ii	Oil Filters	3 Nos	2	5,978	11,934	3	8,211	24,634	3	2,816	8,448	3	Included in S		3	2,340.00	4,680
iii	Fuel Pump complete	1 Set	1	5,978	5,978	1	34,982	34,982	1	8,448	8,448	1	Included in S		1	42,240.00	42,240
iv	Rotary diodes	6 Nos	6	5,978	35,868	6	35,491	3,54,916	6	35,712	1,16,271	6	Included in S		6	660.00	4,110
v	Solenoid assembly	1 No.	1	5,978	5,978	1	21,568	21,568	1	18,304	18,304	1	Included in S		1	37,125.00	37,125
vi	Fuel Starter assembly	1 No.	1	11,956	11,956	1	1,28,300	1,28,300	1	54,811	54,811	1	Included in S		1	39,900.00	39,900
vii	Main supply contactor	1 No.	1	11,956	11,956	1	1,90,679	1,90,679	1	4,224	4,224	1	Included in S		1	20,625.00	20,625
viii	MCB, Miniature relays, Voltmeter, Ammeter, Sawtooth switches, of each type and rating	1 Set	1	17,625	17,625	1	26,264	26,264	1	28,016	28,016	1	Included in S		1	54,234.00	54,252
ix	Diesel type fuel gauge	1 Set	1	5,978	5,978	1	8,456	8,456	1	38,016	38,016	1	Included in S		1	4,230.00	4,230
x	Emergency push button	1 No.	1	598	598	1	846	846	1	38,016	38,016	1	Included in S		1	1,140.00	1,140
9	SPARES FOR 220/48V DC BATTERIES				0			0			0	0	-	0			0
i	Spare battery cell for 220V, 400AH battery w/o electrolyte	5 Nos	5	22,913	1,14,565	5	22,525	1,12,131	5	14,805	74,025	5	42,030	2,00,150	5	Included	
ii	Vent Plugs	10 Nos	10	598	5,980	10	NA		10	141	1,408	10	2,471	24,710	10	Included	
iii	Float Indicators	10 Nos	10	598	5,980	10	NA		10	4,632	46,320	10	2,471	24,710	10	Included	
iv	Terminal connectors with nuts & bolts	12 Nos	12	598	5,980	12	NA		10	429	4,294	10	936	9,360	10	Included	
v	Spare battery cell for 48V, 400AH battery w/o electrolyte	5 Nos	5	17,930	89,673	5	NA		5	14,642	93,139	5	40,020	2,00,100	5	20,000.00	1,00,000
vi	Vent Plugs	10 Nos	10	598	5,980	10	NA		10	4,632	46,320	10	2,471	24,710	10	Included	
vii	Float Indicators	10 Nos	10	598	5,980	10	NA		10	1,408	14,080	10	2,471	24,710	10	Included	
viii	Terminal connectors with nuts & bolts	10 Nos	10	598	5,980	10	NA		10	429	4,294	10	936	9,360	10	Included	
ix	Electrolyte	160 Ltrs	160	598	95,680	160	NA		160	429	68,710	160	42	6,720	160	Included	
x	Battery rack wooden log sheet books for two years	5 Set	1	3,733	1,793	1	8,456	8,456	1	141	141	1	176	176	1	Included	
10	SPARES FOR 220KV/48VDC BATTERY CHARGER & DCDB				0			0			0	0	-	0			0
i	Set of Control Cards (1 No. of each type)	1 Set	1	2,989	2,989	1	43,137	43,137	1	11,137	11,137	1	70,024	70,024	1	3,09,850.00	1,09,450
ii	Set of relays (1 No. of each type)	1 Set	1	2,989	2,989	1	8,625	8,625	1	13,075	13,075	1	1,560	1,560	1	Included Above	
iii	Set of contactor (1 No. of each type)	1 Set	1	2,989	2,989	1	60,378	60,378	1	5,149	5,149	1	24,710	24,710	1	Included Above	
iv	Micro switches (1 No. of each type)	1 Set	1	2,989	2,989	1	1,365	1,365	1	8,292	8,292	1	936	936	1	Included Above	
v	P Kar Capacitors (1 No. of each type)	1 Set	1	2,989	2,989	1	20,701	20,701	1	1,716	1,716	1	4,914	4,914	1	Included Above	
vi	Thyristor Diode (1 No. of each type)	1 Set	1	2,989	2,989	1	65,553	65,553	1	2,917	2,917	1	7,085	7,085	1	Included Above	
vii	Set of switches (1 No. of each type)	1 Set	1	2,989	2,989	1	10,251	10,251	1	4,292	4,292	1	2,340	2,340	1	Included Above	
viii	Set of wound resistors (1 No. of each type)	1 Set	1	2,989	2,989	1	9,960	9,960	1	104	104	1	1,156	1,156	1	Included Above	
ix	Potentiometers (1 No. of each type)	1 Set	1	2,989	2,989	1	4,140	4,140	1	429	429	1	585	585	1	Included Above	
x	Fuses of Thyristor with indicators (1 No. of each type)	1 Set	1	2,989	2,989	1	11,751	11,751	1	1,459	1,459	1	7,415	7,415	1	Included Above	
xi	DC contactor coils (1 No. of each type)	1 Set	1	2,989	2,989	1	12,421	12,421	1	1,459	1,459	1	10,772	10,772	1	Included Above	
xii	Blocking diodes of each type	1 Set	1	2,989	2,989	1	12,938	12,938	1	1,459	1,459	1	624	624	1	Included Above	
xiii	AC contactor's coil of each type and rating	1 Set	1	2,989	2,989	1	9,488	9,488	1	1,459	1,459	1	13,208	13,208	1	Included Above	
xiv	DP MCB (No nos. of each type and rating)	1 Set	1	2,989	2,989	1	36,227	36,227	1	5,949	5,949	1	8,427	8,427	1	Included Above	
11	SPARES OF LT SWITCHGEAR				0			0			0	0	-	0			0
i	Auxiliary Relays (1 No. of each type)	1 Set	1	2,989	2,989	1	4,48,523	4,48,523	1	39,200	19,200	1	10,477	10,477	1	Included	
ii	CTs and PTs (1 No. of each type)	1 Set	1	2,989	2,989	1	1,59,098	1,59,098	1	19,200	19,200	1	5,767	5,767	1	Included	
iii	Switches/Push buttons and Meters (1 No. of each type)	1 Set	1	2,989	2,989	1	60,378	60,378	1	19,200	19,200	1	1,648	1,648	1	Included	
iv	MCCB(1 no. of each type and rating)		1	2,989	2,989	1	4,31,272	4,31,272	1	19,200	19,200	0	-	0	1	Included	

General Manager (C&D)
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Sr No	DESCRIPTION OF EQUIPMENT / MATERIAL	Qty/unit	M/S Kanohar Electricals Ltd, Meerut (UP)			M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (DL)			M/S RAJAU ELECTRICALS CO. MUMBAI (MH)			M/S Bee Bee Ltd. Mumbai (MH)			M/S Techtra T&D System (IN)		
			Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)	
				Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price
1	2	3	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
iv	TPN Switches/MCB DP (1 No. of each type and rating)	1 Set	1	2,918	2,918	1	43,107	43,107	1	15,000	15,000	1	82,361	82,361	1	Included	
v	Voltmeters	1 No	1	2,918	2,918	1	4,608	4,608	1	19,000	19,000	1	5,767	5,767	1	Included	
vi	Ammeter	1 No	1	2,918	2,918	1	6,038	6,038	1	19,000	19,000	1	5,767	5,767	1	Included	
vii	TNC switch for Breaker	2 Nos	2	2,965	5,930	2	2,588	5,175	2	19,000	38,000	2	4,120	8,240	2	Included	
viii	Heater	2 Nos	2	2,965	5,930	3	17,904	25,478	3	19,000	19,000	2	4,120	8,240	2	Included	
ix	DTC & ETF relay	1 No	1	2,965	2,965	1	2,64,035	2,64,035	1	15,000	15,000	1	12,358	12,358	1	Included	
x	Over Voltage coil	2 Nos	2	2,965	5,930	2	1,03,268	2,09,110	2	19,000	38,000	2	8,238	16,476	2	Included	
xi	Auxiliary contacts (1 No. of each type)	1 Set	1	2,965	2,965	1	3,14,141	3,18,141	1	15,000	15,000	1	1,235	1,235	1	Included	
b	L.T. Breaker Spares				0			0			0	0	-	0			
	a) Spring charging motor (1 No. of each type)	1 Set	1	2,965	2,965	1	39,677	39,677	1	15,200	15,200	1	20,631	20,631	1	Included	
	b) Aux. Contact sets (each type)	2 Set	4	2,965	5,930	2	14,663	29,326	2	15,200	30,400	2	3,677	7,354	2	Included	
	c) Bottle Jack (if required)	5 Nos	5	2,965	14,825	5	3,020	15,101	5	15,200	76,000	5	195	975	5	Included	
	d) Arc chutes	1 Set	1	2,965	2,965	1	13,864	13,864	1	15,200	15,200	1	8,238	8,238	1	Included	
	e) Moving contacts (1 No. of each type)	1 Set	1	2,965	2,965	1	30,269	30,269	1	15,200	15,200	1	4,614	4,614	1	Included	
	f) Arcing contacts (Fixed/Moving) (1 no. of each type)	1 Set	1	2,965	2,965	1	8,108	8,108	1	15,200	15,200	1	4,614	4,614	1	Included	
	g) Springs (Closing/Opening) (1 No. of each type)	1 Set	1	2,965	2,965	1	3,795	3,795	1	15,200	15,200	1	4,120	4,120	1	Included	
	h) Closing coil	3 Nos	3	2,965	8,895	3	13,456	40,367	3	15,200	57,509	3	2,471	7,413	3	Included	
	i) Tripping coil	3 Nos	4	2,965	8,895	3	13,456	40,367	4	15,200	57,509	3	2,471	7,413	3	Included	
	j) Aux. finger contact (1 No. of each type)	1 Set	1	2,965	2,965	1	37,952	37,952	1	15,200	15,200	1	2,471	2,471	1	Included	
	k) Limit switches (1 No. of each type)	1 Set	1	2,965	2,965	1	1,294	1,294	1	15,200	15,200	1	1,318	1,318	1	Included	
	l) Jaw contacts (1 No. of each type)	1 Set	1	2,965	2,965	1	11,111	11,111	1	15,200	15,200	1	17,321	17,321	1	Included	
	m) 415V, 800A Air circuit Breaker	1 No	1	12,930	12,930	1	3,67,282	3,67,282	1	15,200	15,200	1	2,47,141	2,47,141	1	3,14,160.00	3,15,960
c	Busbar				0			0			0	0	-	0			
	a) Busbar insulators	3 Nos	3	1,186	3,557	6	8,170	44,852	5	15,200	80,999	6	83	473	6	Included Above	
	b) Interphase barrier	2 Nos	2	11,956	23,913	2	3,796	7,160	2	15,200	30,400	2	155	309	2	Included Above	
	c) Busbar strip for multiple units	5 Mts	5	888	4,440	5	27,601	1,38,127	5	15,200	81,949	5	824	4,120	5	Included Above	
12	SPARES FOR RELAY AND PROTECTION PANELS 220KV & 132KV				1			0			0	1	29,73,615	29,73,615			
12.1	220KV BREAKER RELAY PANEL SPARES				0			0			0	0		0			
i	Numerical Breaker Failure Relay	1 No	1	1,14,797	1,14,797	1	2,42,338	2,42,338	1	19,000	19,000	1	included in 12		1	Included	
ii	Trip Circuit Supervision Relay	2 Nos	2	7,292	14,584	2	16,016	32,032	2	19,000	38,000	2	included in 12		2	Included	
iii	Self Reset Trip Relay (1 No. of each type)	1 Set	1	8,858	8,858	1	12,745	12,745	1	19,000	19,000	1	included in 12		1	Included	
iv	Hand Reset Trip Relay (1 No. of each type)	1 Set	1	8,858	8,858	1	27,026	27,026	1	19,000	19,000	1	included in 12		1	Included	
v	Timer Relay (1 No. of each type)	1 Set	1	3,138	3,138	1	12,934	12,934	1	19,000	19,000	1	included in 12		1	Included	
vi	DC Supervision Relay	1 No	1	4,183	4,183	1	8,995	8,995	1	19,000	19,000	1	included in 12		1	Included	
vii	Auxiliary Relays (1 No. of each type)	1 Set	1	4,183	4,183	1	11,540	11,540	1	19,000	19,000	1	included in 12		1	Included	
viii	High Speed Tripping relay	1 No	1	11,560	11,560	1	40,503	40,503	1	19,000	19,000	1	included in 12		1	Included	
12.2	220KV LINE PROTECTION PANEL SPARES				0			0			0	0		0			
i	Main - 1 Numerical Distance Relay with Software (excluding external Trip Relay)	1 Set	1	2,64,010	2,64,010	1	2,83,094	2,83,094	1	19,000	19,000	1	included in 12		1	32,53,760.00	32,53,760
ii	Main - 2 Numerical Current Differential Relay with Software (excluding external Trip Relay)	1 Set	1	2,64,010	2,64,010	1	4,43,855	4,43,855	1	19,000	19,000	1	included in 12		1	Included Above	
iii	Disturbance Recorder comprising of Acquisition Unit with Software	1 Set	1	2,64,010	2,64,010	1	INCLUDED		1	19,000	19,000	1	included in 12		1	Included Above	
iv	3P-E Relay	1 No	1	1,14,797	1,14,797	1	2,16,904	2,16,904	1	19,000	19,000	1	included in 12		1	Included Above	
12.3	220KV TRANSFORMER PROTECTION PANEL SPARES				0			0			0	0					
i	Numerical Differential Relay with Software (excluding external Trip Relay)	1 No	1	2,64,010	2,64,010	1	2,70,188	2,70,188	1	19,000	19,000	1	included in 12		1	Included Above	
ii	Numerical Restricted Earth Fault Relay with Software (excluding external Trip Relay)	1 No	1	1,14,797	1,14,797	1	1,31,469	1,31,469	1	19,000	19,000	1	included in 12		1	Included Above	
iii	Numerical Over Current Earth Fault Relay	1 No	1	1,14,797	1,14,797	1	1,91,153	1,91,153	1	19,000	19,000	1	included in 12		1	Included Above	
i	Numerical Breaker Failure Relay	1 No	1	1,82,946	1,82,946	1	2,42,338	2,42,338	1	19,000	19,000	1	included in 12		1	Included Above	
ii	Trip Circuit Supervision Relay	2 Nos	2	7,292	14,584	2	15,018	30,037	2	19,000	38,000	2	included in 12		2	Included Above	
iii	Self Reset Trip Relay (1 No. of each type)	1 Set	1	8,858	8,858	1	12,745	12,745	1	19,000	19,000	1	included in 12		1	Included Above	
iv	Hand Reset Trip Relay (1 No. of each type)	1 Set	1	8,858	8,858	1	27,026	27,026	1	19,000	19,000	1	included in 12		1	Included Above	
v	Timer Relay (1 No. of each type)	1 Set	1	3,138	3,138	1	12,934	12,934	1	19,000	19,000	1	included in 12		1	Included Above	
vi	DC Supervision Relay	1 No	1	4,183	4,183	1	8,995	8,995	1	19,000	19,000	1	included in 12		1	Included Above	
vii	Auxiliary Relays (1 No. of each type)	1 Set	1	4,183	4,183	1	11,540	11,540	1	19,000	19,000	1	included in 12		1	Included Above	
12.4	132KV BREAKER RELAY PANEL SPARES				0			0			0	0					
i	Numerical Breaker Failure Relay	1 No	1	1,14,797	1,14,797	1	2,42,338	2,42,338	1	19,000	19,000	1	included in 12		1	Included Above	
ii	Trip Circuit Supervision Relay	2 Nos	2	7,292	14,584	2	15,018	30,037	2	19,000	38,000	2	included in 12		2	Included Above	
iii	Self Reset Trip Relay (1 No. of each type)	1 Set	1	8,858	8,858	1	12,745	12,745	1	19,000	19,000	1	included in 12		1	Included Above	
iv	Hand Reset Trip Relay (1 No. of each type)	1 Set	1	603	603	1	27,026	27,026	1	19,000	19,000	1	included in 12		1	Included Above	
v	Timer Relay (1 No. of each type)	1 Set	1	3,138	3,138	1	12,934	12,934	1	19,000	19,000	1	included in 12		1	Included Above	
vi	DC Supervision Relay	1 No	1	4,183	4,183	1	8,763	8,763	1	19,000	19,000	1	included in 12		1	Included Above	
vii	Auxiliary Relays (1 No. of each type)	1 Set	1	4,183	4,183	1	11,540	11,540	1	19,000	19,000	1	included in 12		1	Included Above	

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Sr. No.	DESCRIPTION OF EQUIPMENT / MATERIAL	Qty /unit	M/S Kanohar Electricals Ltd. Mandi (HP)			M/S Aryan Indus Solutions Pvt. Ltd. New Delhi (DL)			M/S BAJAJ ELECTRICALS LTD, MUMBAI (MH)			M/S Blue Star Ltd. Mumbai (MH)			M/S Tejas ss T&D System (HP)		
			Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)	
				Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price
1	2	3	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
xvi	Hot Spare Tripping relay	1 No	1	11,500	11,500	1	40,500	40,500	1	19,000	19,000	1	included in 12		1	included Above	
xvii	TNC switch for breaker	1 Nos	1	2,211	2,211	1	6,151	6,151	1	19,000	19,000	1	included in 12		1	included Above	
12.3	132KV STANDBY/MFR PROTECTION PANEL SPARES				0			0			0						
i	Numerical Differential Relay with Software (excluding external Trip Relay)	1 No	1	2,64,000	2,64,000	1	2,70,168	2,70,168	1	19,000	19,000	1	included in 12		1	included Above	
ii	Numerical Directional Earth Fault Relay with Software (excluding external Trip Relay)	1 No	1	1,14,787	1,14,787	1	1,37,483	1,37,483	1	19,000	19,000	1	included in 12		1	included Above	
iii	Numerical Over Current Earth Fault Relay	1 No	1	1,14,787	1,14,787	1	1,69,163	1,69,163	1	19,000	19,000	1	included in 12		1	included Above	
iv	Numerical Breaker Failure Relay	1 No	1	1,82,000	1,82,000	1	1,00,413	1,00,413	1	19,000	19,000	1	included in 12		1	included Above	
v	Trip Circuit Supervision Relay	2 Nos	2	1,297	14,594	2	19,018	38,037	2	19,000	38,000	2	included in 12		2	included Above	
vi	Lock Reset Trip Relay (1 No. of each type)	1 Set	1	6,858	6,858	1	12,195	12,195	1	19,000	19,000	1	included in 12		1	included Above	
vii	Hand Reset Trip Relay (1 No. of each type)	1 Set	1	5,858	5,858	1	21,824.37	21,824	1	19,000	19,000	1	included in 12		1	included Above	
viii	Timer Relay (1 No. of each type)	1 Set	1	3,138	3,138	1	12,864	12,864	1	19,000	19,000	1	included in 12		1	included Above	
ix	DC Supervision Relay	1 No	1	4186	4,186	1	8,987.29	8,987	1	19,000	19,000	1	included in 12		1	included Above	
x	Auxiliary Relays (1 No. of each type)	1 Set	1	4185	4,185	1	11,639.48	11,639	1	19,000	19,000	1	included in 12		1	included Above	
xi	High Speed Tripping relay	1 No	1	11500	11,500	1	46,053.4	46,053	1	19,000	19,000	1	included in 12		1	included Above	
12.4	COMMON SPARES				0			0			0	0					
i	Power Supply Modules for Bus Bar Protection (1 No. of each type)	5 Sets	5	405114	19,65,342	3	72,551.45	2,14,906	3	19,000	57,000	3	included in 12		3	included Above	
ii	Metrosil (Non - Linear Resistor) (1 No. of each type)	1 Set	1	17625	17,625	1	23,106.60	23,106	1	19,000	19,000	1	included in 12		1	included Above	
iii	Inter Posing CT and PTs (1 No. of each type)	4 Set	1	4534	4,534	1	NA		1	19,000	19,000	1	included in 12		1	included Above	
13	SPARES FOR SUB STATION AUTOMATION SYSTEM				0			0			0	0	included in 12				
i	Bay Control Unit (1 No. of each type)	1 Set	1	182046	1,82,046	1	7,31,047.36	7,31,047	1	19,000	19,000	1	included in 12		1	23,40,000.00	23,40,000
ii	Ethernet Switch of each type	1 Set	1	644502	6,44,502	1	5,86,707.91	5,86,708	1	19,000	19,000	1	included in 12		1	Included Above	
iii	Networking Cable (CAT-5)	100 Mtrs	100	29	2,900	100	897.56	89,756	100	19,000	19,00,000	100	included in 12		100	Included Above	
iv	DC-DC Converter (1 no. of each type and rating)	1 Set	1	20604	20,604	1	7,105	7,105	1	19,000	19,000	1	included in 12		1	Included Above	
v	Power supply unit (1 No. of each type and rating)	1 Set	1	43942	43,942	1	4,48,256.37	4,48,256	1	19,000	19,000	1	included in 12		1	Included Above	
vi	Miniature Switching relays (1 No. of each type and rating)	1 Set	1	1405	1,405	1	24,700.48	24,700	1	19,000	19,000	1	included in 12		1	Included Above	
vii	PLC relays (1 No. of each type and rating)	1 Set	1	119570	1,19,570	1	NA		1	19,000	19,000	1	included in 12		1	Included Above	
viii	Console server with monitor, key board, mouse etc.	1 Set	1	119570	1,19,570	1	787282.42	7,87,282	1	19,000	19,000	1	included in 12		1	Included Above	
ix	Network Switch	1 No	1	59785	59,785	1	247431.62	2,47,432	1	19,000	19,000	1	included in 12		1	Included Above	
x	Hub	2 Nos	2	5978	11,956	2	NA		2	19,000	38,000	2	included in 12		2	Included Above	
xi	Voltage, Frequency, kW, kVA, kVAR, current and transformer tap position transducers (1 No. of each type each)	1 Set	1	56347	56,347	1	26823.54	26,824	1	19,000	19,000	1	included in 12		1	Included Above	
xii	Master control card	1 No	1	53785	53,785	1	157456.48	1,57,456	1	19,000	19,000	1	included in 12		1	Included Above	
xiii	Logger printing paper for one year	1 Set	1	59785	59,785	1	14462.39	14,462	1	19,000	19,000	1	included in 12		1	Included Above	
14	SPARES FOR EOT CRANE				0			0			0	0					0
14.1	Spares for 220KV & 132 kV GIS Hall Crane				0			0			0	1	1,81,237	1,81,237			0
i	Pair of brake shoe with lining for each size of brake used viz. D.C. operated E.M. or Hydraulic thruster operated	4 Sets	4	5978	23,912	4	35634.84	1,42,540	4	5,867	23,468	4	included in 14		4	67,500.00	2,70,000
ii	Pair of brake linings with rivets for each size of brake used	4 Sets	4	5978	23,912	4	35634.95	1,42,540	4	5,867	23,468	4	included in 14		4	NOT APPLICABLE	
iii	Main springs for each size of brake used	4 Nos	4	1196	4,784	4	12473.06	49,892	4	5,867	23,468	4	included in 14		4	11,750.00	47,000
iv	Guide sets for each size of brake used	4 Sets	4	1196	4,784	4	99095.6	3,96,382	4	5,867	23,468	4	included in 14		4	NOT APPLICABLE	
v	Thruster of each size used	2 Nos	2	1196	2,392	2	11812.44	23,625	2	5,867	11,733	2	included in 14		2	6,650.00	13,300
vi	Pair of oil seals for each gear box used on crane	4 Sets	4	1196	4,784	4	17617.41	71,070	4	5,867	23,468	4	included in 14		4	NOT APPLICABLE	
vii	Contactors of each size used	4 Sets	4	5978	23,912	4	35631.93	1,42,540	4	5,867	23,468	4	included in 14		4	3,425.00	13,700
viii	Fixed & moving contacts of each size contactor used	2 Sets	2	5978	11,956	2	26720.97	53,454	2	5,867	11,733	2	included in 14		2	1,540.00	3,080
ix	3 Nos. Coils for each size of contactor used	2 Sets	2	1196	2,392	2	11581.78	23,164	2	5,867	11,733	2	included in 14		2	3,425.00	6,850
x	Overload relay for each motor	2 Nos	2	2989	5,978	2	0	0	2	5,867	11,733	2	included in 14		2	3,960.00	7,920
xi	Limiters	6 Nos	6	1196	7,176	6	0	0	6	5,867	35,200	6	included in 14		6	NOT APPLICABLE	
xii	3 No. Fuse links of each size used in crane	4 Sets	4	1196	4,784	4	12473.06	49,892	4	5,867	23,468	4	included in 14		4	5,130.00	20,520
xiii	1 Pinion set and 1 set bushes of each size and type	1 Sets	1	5978	5,978	1	17785.73	17,786	1	5,867	5,867	1	included in 14		1	NOT APPLICABLE	
xiv	Complete set of lamps for lightning and signals	1 Sets	1	598	598	1	8509.57	8,510	1	5,867	5,867	1	included in 14		1	1,710.00	1,710
xv	Cam limit switches & heaters for each hoisting motor	4 Sets	4	1196	4,784	4	NA		4	5,867	23,468	4	included in 14		4	NOT APPLICABLE	
xvi	Fuse kits of each size used	4 Sets	4	1196	4,784	4	12473.06	49,892	4	5,867	23,468	4	included in 14		4	NOT APPLICABLE	
xvii	Miniature element of each size and type	1 Sets	1	1196	1,196	1	44344.48	44,344	1	5,867	5,867	1	included in 14		1	1,710.00	1,710
xviii	Communication Card/cable	1 Sets	1	5978	5,978	1	NA		1	5,867	5,867	1	included in 14		1	NOT APPLICABLE	
xix	SD Card	1 Sets	1	5978	5,978	1	NA		1	5,867	5,867	1	included in 14		1	34,200.00	34,200
xx	Processors	1 Sets	1	14348	14,348	1	NA		1	5,867	5,867	1	included in 14		1	NOT APPLICABLE	
xxi	Indicating lamps	1 Sets	1	1196	1,196	1	8509.57	8,510	1	5,867	5,867	1	included in 14		1	NOT APPLICABLE	

General Manager (C&D)
HPPTCL, Shimla-5

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Sr No	DESCRIPTION OF EQUIPMENT / MATERIAL	Qty/unit	M/S Kanwar Electricals Ltd. Meerut (BS)			M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (SS)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (BB)			M/S. Blue Star Ltd. Mumbai (BB)			M/S Toshiba T&D System (BB)		
			Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)	
				Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price
1	2	3	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
14.2	Spares for Transformer Building crane				0			0			0	0	-			-	
i	Set of brake shoe with lining for each size of brake used viz D.C. operated E.M. or hydraul or thruster operated	1 Set.	1	5879	29,912			0	0	5,867	23,466	4	included in 14		4	NOT APPLICABLE	
ii	Pair of brake springs with keys for each size of brake used	1 Set	1	5878	23,512			0	4	5,867	23,466	4	included in 14		4	NOT APPLICABLE	
iii	Main springs for each size of brake used	4 Nos	4	1184	4,784			0	4	5,867	23,466	4	included in 14		4	NOT APPLICABLE	
iv	Brake disk for each size of brake used	4 Nos	4	1996	4,784			0	4	5,867	23,466	4	included in 14		4	NOT APPLICABLE	
v	Thruster of each size used	2 Nos	2	1996	2,392			0	2	5,867	11,733	2	included in 14		2	NOT APPLICABLE	
vi	Pair of oil seals for each gear box used on crane	4 Nos	4	1196	4,784			0	4	5,867	23,466	4	included in 14		4	NOT APPLICABLE	
vii	Contactors of each size used	4 Nos	4	5878	23,512			0	4	5,867	23,466	4	included in 14		4	NOT APPLICABLE	
viii	Fixed & moving contacts of each size contactor used	2 Sets	2	5878	11,756			0	2	5,867	11,733	2	included in 14		2	NOT APPLICABLE	
ix	3 Nos. Coils for each size of contactor used	2 Pairs	2	1196	2,392			0	2	5,867	11,733	2	included in 14		2	NOT APPLICABLE	
x	Overload relay for each motor	2 Nos	2	2989	5,978			0	2	5,867	11,733	2	included in 14		2	NOT APPLICABLE	
xi	Timers	6 Nos	6	1196	7,176			0	6	5,867	35,200	6	included in 14		6	NOT APPLICABLE	
xii	3 No. fuse links of each fuse used on crane	4 Sets	4	1196	4,784			0	4	5,867	23,466	4	included in 14		4	NOT APPLICABLE	
xiii	1 Pole circuit breaker of each size and type	1 Nos	1	5978	5,978			0	1	5,867	5,867	1	included in 14		1	NOT APPLICABLE	
xiv	Complete set of lamps for lighting and signals	1 Sets	1	598	598			0	1	5,867	5,867	1	included in 14		1	NOT APPLICABLE	
xv	Carbon brushes & holdings for each slip ring motor	4 Sets	4	1196	4,784			0	4	5,867	23,466	4	included in 14		4	NOT APPLICABLE	
xvi	Fuse units of each size used	4 Sets	4	1196	4,784			0	4	5,867	23,466	4	included in 14		4	NOT APPLICABLE	
xvii	Resistance element of each size and type	1 Sets	1	5196	5,196			0	1	5,867	5,867	1	included in 14		1	NOT APPLICABLE	
xviii	Communication Cord Cable	1 Sets	1	2918	5,978			0	1	5,867	5,867	1	included in 14		1	NOT APPLICABLE	
xix	VG Cars	1 Sets	1	5878	5,978			0	1	5,867	5,867	1	included in 14		1	NOT APPLICABLE	
xix	Hooters/s	1 Sets	1	14348	14,348			0	1	5,867	5,867	1	included in 14		1	NOT APPLICABLE	
xxi	Indicating lamps	1 Sets	1	1196	1,196			0	1	5,867	5,867	1	included in 14		1	NOT APPLICABLE	
15	SPARES FOR FIRE DETECTION AND FIRE EXTINGUISHING SYSTEM				0			1			0	0		0			0
i	Fitted Halgon Counter	3 Nos	3	29492	88,784	3	3,179857	9,22,501	3	3,33,719	3,67,157	3	1,01,400	3,22,502	3	4,06,497.00	2,79,500
ii	Pipes with fittings	One No. of each Type	1	17833	17,833	1	50277.8	19,778	1	45,280	45,280	1	37,647	37,647	1	33,962.00	34,966
iii	Heat Sensor assembly	One No. of each Type	1	17833	17,833	1	36233.5	36,234	1	88,703	88,703	1	1,10,399	1,10,399	1	71,697.00	71,359
iv	Fire Survival cable outlook for one system	One No. of each Type	1	119078	1,19,078	1	119455 lot	1,19,455	1	2,464	2,464	1	3,715	3,715	1	8,000.00	8,000
v	PA/FAS	One No. of each Type	1	95655	95,655	1	152650.57	1,52,651	1	33,088	33,088	1	42,015	42,015	1	26,830.00	26,830
vi	Limit switch for fire damper	Three No. of each Type	3	5978	17,934	3	9,059.4	27,178	1	8,400	8,400	3	8,196	24,588	3	5,700.00	17,100
vii	Fire Detectors	Six No. of each Type	6	2391	14,346	6	24359	1,46,154	1	24,640	24,640	6	35,424	2,12,544	6	13,980.00	83,880
viii	Thermostat	Two No. of each Type	2	2391	4,782	2	2264.6	4,529	1	4,928	4,928	2	6,261	12,522	2	3,990.00	7,980
ix	Heating Element	Two No. of each Type	2	2391	4,782	2	2364.8	4,729	1	37,600	37,600	2	20,580	41,160	2	14,270.00	28,540
16	SPARES FOR 33 KV INDOOR PANEL				0		0	0			0	0	-	0		-	0
i	Tripping Coil	2Nos	2	2391	4,782	2	2536.89	5,074	2	17,600	35,200	2	8,238	16,476	2	Included	
ii	Closing Coil	2Nos	2	2391	4,782	2	2536.89	5,074	2	17,600	35,200	2	8,238	16,476	2	Included	
iii	Vacuum Interrupter 630 A 33 kV (Breaker complete)	1Nos	1	28493	28,493	1	Breaker 1	1,58,158	1	4,23,396	4,23,396	1	2,47,141	2,47,141	1	2,80,630.00	2,80,630
iv	Current Transformer with protection and metering core of Accuracy Class 0.2, 30VA				0		0	0			0	0	-	0		-	0
	110/1-1A	2 No	2	29492	58,984	2	50737.16	1,01,475	2	1,12,639	2,25,278	2	19,772	39,544	2	Included Above	
v	Voltage Transformer				0		0	0			0	0	-	0		-	0
	33000/ √3/110/ √3/110/ √3 Volts class 0.2, 50VA	2No	2	29492	58,984	2	50737.16	1,01,475	2	1,12,639	2,25,278	2	19,772	39,544	2	Included Above	

General Manager (C&D)
HPPTCL, Shimla-5

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Sr. No.	DESCRIPTION OF EQUIPMENT / MATERIAL	Qty./Unit	M/S Kanohia Electricals Ltd. Meerut (UP)			M/S Siyam Infra Solutions Pvt. Ltd. New Delhi (DL)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (MH)			M/S Blue Star Ltd. Mumbai (MH)			M/S Toshiba T&D System (MH)		
			Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)		Qty	EXW Price (INR)	
				Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price		Unit Price	Total Price
1	2	3	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
v)	Numerical type Over Electrical Fault current/Earth Fault Relay Unit	No.	1	33783	33,783	1	152214.57	152214	1	33,048	33,048	1	36,857	36,857	1	35,000.00	35,000
vi)	Digital test Close Switch	1 No.	1	6457	6,457	1	7610.18	7,611	1	6,406	6,406	1	8,238	8,238	1	Included Above	
vii)	Contacts of lead size used	1 Set	1	8387	8,387	1	20295.14	20,295	1	6,406	6,406	1	61,404	61,404	1	Included Above	
	Total				2300889.8			4331657.63			2882340.45			2754879.21			3525160.5
	Difference in Total due to item considered at decimal										-1273907.45						
	Total as per bid Price				2300889.80			4331657.63			2873611.58			2754879.21			3525160.49
	Reliable Tech P.vtg										2%						
	Total without taxes										2931003.85			3350158.05			
	total including all taxes (for comparison)				2300843.8			4331657.63			2844103.97			3350158.05			

Dy. Manager (Contracts)
HPPTCL, Berowalia House
Khalini, Shimla-2

Dy. General Manager (Contracts)
H.P. Power Transmission Corpn. Ltd
Berowalia House, Khalini, Shimla-2

General Manager (C&D)
HPPTCL, Shimla-5

2.A.44

SCHEDULE 3 (Design Service) | Table-4

TENDER DOCUMENT No.: 17 - SS / ADB / HPPTCL / 220 KV GIS CHAROR

BILL OF MATERIAL REQUIRED FOR 132/220 kV GIS SUB STATION AT CHAROR

COMPARATIVE STATEMENT

Description	Qty.	Unit	M/S Hexagon Power System Pvt. Ltd, Nashik (B7)		M/S STELMEC LTD. MUMBAI (B2)		M/S ALTOM T&D NOIDA (B3)		M/S Technolab Engineering Ltd. Faridabad (B4		M/S Kanohar Electricals Ltd. Neemrana (B5)		M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (B6)		M/S BAJAJ ELECTRICALS LTD. MUMBAI (B1)		M/S Blue Star Ltd. Mumbai (B8)		M/S Toshiba T&D System (India) Pvt. Ltd. Medak,	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
			Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
			INR	INR	INR	INR	INR	INR	INR	INR	INR	INR	INR	INR	INR	INR	INR	INR	INR	INR
Charor GIS Sub-Station Design Services	1	Lot	36,00,000	36,00,000	25,00,000	25,00,000	included		66,13,351.00	6613351.083	Included		Included		5,93,169.00	5,93,169.00	Included		INCLUDED IN SCHEDULE-4	
TOTAL				36,00,000		25,00,000				6613351.083						5,93,169.00				
service tax inclusive if any						14%														
Total without tax				36,00,000		2192982.5														

Dy. General Manager (Contracts)
HPPTCL, Barowalia House
Khalini, Shimla-2

Dy. General Manager (Contracts)
H.P. Power Transmission Corpn. Ltd
Barowalia House, Khalini, Shimla-2

SCH.-3 (Design Services) 1 of 1

General Manager (C&D)
HPPTCL, Shimla-5

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SCHEDULE-I Erection and Civil works

Table-IX

TENDER DOCUMENT No. 01-66/ADB/HPPTCL/220 KV GIS CHANGR

INSTALLATION AND CIVIL WORKS AT 10/220 kV GIS SUBSTATION AT CHANGR

Comparative Statement

Sr. No	DESCRIPTION OF EQUIPMENT&MATERIAL	Qty and	M/S Kanohar Electricals Ltd. Meerut (UP)			M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (DL)			M/S RAJA ELECTRICALS LTD. MUMBAI (MH)				M/S. Rise Elec Ltd. Mumbai (MH)			M/S Tenkha T&D System (HP)		
			Qty	INSTALLATION AND CIVIL WORKS (incl. T&D charges)		Qty	INSTALLATION AND CIVIL WORKS (incl. T&D charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (incl. T&D charges)		Qty	INSTALLATION AND CIVIL WORKS (incl. T&D charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Price	Total Price	Unit Price	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	3	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
I	MAIN EQUIPMENT																		
A	POWER TRANSFORMER AND ASSOCIATED EQUIPMENT																		
i	25 MVA (ONAF) 50 MVA, 33/132/220kV, Vector Group YNa0d11, % impedance 12.5±10% HV /V, 35± 15% HV LV, 32± 15% HV LV, Single phase auto power transformers with 230V solitary loaded up to 250KVA ONAN/ONAF/OFAF in closing 220kV, 132kV and 33kV outer bushing accessories and final oil filling with 10% extra oil	3 Nos	3	14,48,700.00	4346100	3	3,00,000.00	1100000	3	12,45,752	37,37,256	33,84,244	101,52,732	3	1,12,953	3338859	3	31,44,750.00	9434250
ii	250KVA, 33/0.433 KV, 3 Phase Station Auxiliary Transformer including cable box for LT termination, 33KV inline bushing accessories and final oil filling with 10% extra oil	1 No	1	12,635.00	12635	1	25,700.00	25700	1	23,604	23,604	3,69,384	3,69,384	1	10,710	10710	1	1,10,040.00	110040
iii	Micro Gas Analyzer(On Line DGA)/PAM make	3 Nos	3	36,217.50	108652.5	3	-	0	NIL	19,600	58,800	6,34,696	19,04,088	1	Included in S.I.		3	Included	
iv	Insulating oil drying system	3 Nos	3	36,217.50	108652.5	3	0	0	3	3,93,408	11,80,224	1,27,439	3,82,316	1	Included in S.I.		3	Included	
v	3 sets nitrogen injection fire extinguishing system	3 Nos	3	36,217.50	108652.5	3	0	0	3	3,93,408	11,80,224	1,29,114	3,87,342	1	Included in S.I.		3	Included	
B	220KV GIS EQUIPMENTS				0			0		0	-	-	-			0			0
i	BUS BARS MODULE	2 Set	2	2479360	4958720	2	0	0	2	3,93,408	7,86,816	31,36,841	62,73,682	2	3,58,245	716982	2	6,59,662	1271308
	245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, Single Phase (Isolated)/Three Phase encapsulated Unit, SF_6 Gas insulated, Metal enclosed Bus Bars, Bus Enclosures running along the length of the Switchgear to interconnect each of the Circuit Breaker Bay Module in Double Main Bus System. Each Phase bus be complete with Inductive Voltage Transformers (VTs) complete with Isolator / Disconnector cum Earth Switches and Safety Grounding Switch at complete with Manual and Motor Driven Operating Mechanism, LCC (if required), GIS Duct with SF_6 Gas Monitoring System and Accessories etc complete in all respects				0			0		0	-	-	0	-	0			0
ii	BUS COUPLER BAY MODULE	2 Set	2	2479360	4958720	2	200000	400000	2	3,93,408	7,86,816	31,36,841	62,73,682	2	4,35,011	870022	2	6,59,662	1271308
	245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF_6 Gas Insulated Bus Coupler Bay Module comprising of SF_6 Gas insulated Circuit Breaker (4,000 A), Current Transformers (Ratio: 800-400/1-1-1-1-1-1 A), Bus Bar Isolator / Disconnector Switches (4,000 A) combined with safety Grounding Switches complete with Manual and Motor Driven Operating Mechanism, Local Control Cubicle LCC (if required), GIS Duct with SF_6 Gas Monitoring System and Accessories etc complete in all respects				0			0		0	-	-	0	-	0			0
iii	TRANSFORMER CIRCUIT BREAKER BAY MODULE	1 Sets	1	2479680	2479680	1	500000	500000	1	4,13,070	4,13,070	24,85,910	24,85,910	1	4,35,011	435051	1	6,59,662	659662
	245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF_6 Gas insulated Transformer Circuit Breaker Bay Module each comprising of SF_6 Gas Insulated Circuit Breaker (4,000 A) Current Transformers (Ratio: 800-400/1-1-1-1-1-1 A), Isolator / Disconnector Switches (4,000 A) combined with Safety Earth Switch complete with Manual and Motor Driven Operating Mechanism, Local Control Cubicle (if required) SF_6 Gas Monitoring System for complete Bay, Single Phase SF_6 Ducts and Gas Insulated Terminal Connection (SF_6 / Air Interface assembly of Accessories for connecting 15 MVA 66/245 kV Unit, single phase bank of 33/132/220kV Auto Transformers with 220 kV GIS through Gas insulated Interconnection Bus and Accessories etc complete in all respects				0			0		0	-	-	0	-	0			0
iv	TRANSMISSION LINE FEEDER BAY MODULE	2 Set	2	2479360	4958720	2	200000	400000	2	4,13,070	8,26,140	18,83,527	37,67,054	2	4,35,011	870022	2	6,59,662	1271308
	245 kV, 3000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF_6 Gas insulated Transformer Line Feeder Bay Module each comprising of SF_6 Gas Insulated Circuit Breaker (2000 A) Current Transformers (Ratio: 2000-1000/1-1-1-1-1-1 A), Isolator / Disconnectors (2000 A) Switches with combined Earth Switch complete with Manual and Motor Driven Operating Mechanisms, High Speed Fault Making Grounding Switch complete with close operation Manual and Motor Driven Operating Mechanism, Local Control Cubicle (if required) SF_6 Gas Mix Long System its complete Bay GIS Duct and Air / SF_6 Bushing Terminals Enclosure and Accessories etc complete in all respects				0			0		0	-	-	0	-	0			0
v	245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, Single Phase (Isolated)/Three Phase encapsulated Unit, SF_6 Gas Insulated, Metal enclosed Bus Bars, As a SF6 Bushing and accessories etc complete in all respects to connect HPPTCL 220kV GIS Bus with 220kV ASB Bus of Everest Sub Station	1 Set	1	1155358	1155358	20	10000	200000	1	1,65,704	1,65,704	10,73,744	10,73,744	1	4,35,011	435051	1	6,59,662	659662
C	132 kV GIS EQUIPMENT				0			0		0	-	-	-	0		0			0

General Manager (C&D)
HPPTCL, Shimla-5

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Sr. No.	DESCRIPTION OF EQUIPMENT/MATERIAL	Qty./unit	M/S Kanohar Electricals Ltd. Meerut (UP)			M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (DL)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (MH)				M/S Shree Shiv Urja Mumbai (MH)			M/S Tata Re T&D System (GJ)		
			Qty	INSTALLATION AND CIVIL WORKS (Incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (Incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. F&I charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	3	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
i	BUS BARS MODULE	2 Sets	2	1,382,850	2765700	2	0	0	2	2,62,272	5,24,544	1607.06 GIA	32,141.212	2	2,53,428	506856	2	210000	420000
	145 KV, 2000 A, Short Circuit Current Rating of 40 kA for 3.0 seconds, single phase (isolated)/Three Phase Unit, SF_6 gas insulated, metal enclosed (up to 36kV, earthed/ earthed enclosure running along the length of the switchgear to interconnect each of the circuit breaker bay module in Double Main Bus System. Each bus bar set shall be complete with Voltage Transformers (VTs) suitable with busbar / busbar cum earth switches and safety grounding switch all complete with manual and motor driven operating mechanism, LCC (if required), GIS Duct with SF_6 gas monitoring system and accessories etc complete in all respects				0			0			0			0			0			0
ii	BUS COUPLER BAY MODULE	2 Set	2	1382850	2765700	2	200000	400000	2	2,62,272	5,24,544	1607.06 GIA	32,141.212	2	2,53,428	506856	2	210000	420000
	145kV, 2000 A, Short Circuit Current Rating of 40 kA for 3.0 seconds, SF_6 gas insulated bus coupler bay module comprising of SF_6 gas insulated circuit breaker (1600 A) current transformers (Ratio 2000 - 1000 / 1 - 1 - 1 - 1 A), bus bar isolator / disconnector switches (2000 A) combined with safety grounding switches complete with one manual and motor driven operating mechanism, local control cubicle (LCC (if required), GIS Duct with SF_6 gas monitoring system and accessories etc complete in all respects				0			0			0			0			0			0
iii	TRANSFORMER CIRCUIT BREAKER BAY MODULE	1 Set	1	2041350	2041350	1	300000	300000	1	2,62,272	2,62,272	5607.06 GIA	5,607.06	2	2,53,428	507856	1	210000	210000
	145 kV, 1250 A, Short Circuit Current Rating of 40 kA for 3.0 seconds, SF_6 gas insulated transformer circuit breaker bay module each comprising of SF_6 gas insulated circuit breaker (1250 A) current transformers (Ratio 1200-600 / 1 - 1 - 1 - 1 - 1 A), isolator / disconnector switches (1200 A) combined with safety earth switch complete with manual and motor driven operating mechanisms, local control cubicle (if required) SF_6 gas monitoring system for complete bay, single phase SF_6 ducts and GHS / air bushing as required 26.5/63 GMVS single phase bars of 33/ 132/220kV, , Auto-transfer ease and accessories etc complete in all respects.				0			0			0			0			0			0
iv	TRANSMISSION LINE FEEDER BAY MODULE	2 Set	2	1382850	2765700	2	200000	400000	2	4,13,136	8,26,272	3,21,216	12,84,432	2	2,53,428	507856	2	210000	420000
	145 kV, 2000 A, Short Circuit Current Rating of 40 kA for 3.0 seconds, SF_6 Gas Insulated Transformer Line Feeder Bay Module each comprising of SF_6 Gas Insulated Circuit Breaker (2000 A), Current Transformers (Ratio 1600-1000 / 1 - 1 - 1 - 1 - 1 A), Isolator / Disconnector (2000 A) Switches with combined Earth Switch complete with Manual and Motor Driven Operating Mechanisms, High Speed Fault Making Grounding Switch complete with gas operated Manual and Motor Driven Operating Mechanism, Local Control Cubicle (if required), SF_6 Gas Monitoring System for complete Bay, GIS Duct and Air / SF_6 Bushing Termination Enclosure and Accessories etc complete in all respects				0			0			0			0			0			0
v	145 kV, 2000 A, Short Circuit Current Rating of 40 kA for 3.0 seconds, Single Phase (Isolated)/Three Phase encapsulated Unit, SF_6 Gas Insulated, Metal enclosed Bus Bars, Air to SF6 Bushing and accessories etc complete in all respects to connect HPPTCL 132kV GIS Bus with 132kV AIS Bus at Everest Sub Station	1 Set	1	224350	224350	20	10000	200000	1	4,13,136	4,13,136	5607.06	5,607.06	1	2,53,428	253428	1	100000	100000
B	220kV OUT DOOR EQUIPMENT				0			0			0			0		0			0
i	245kV, 440CPF Capacitive Voltage Transformer with junction box	6 Nos.	6	21751	130503	6	15000	90000	6	18,356	1,10,136	31218.2670	1,87,309	6	12,573	75438	6	21450	128700
ii	2000A, 3 Sec, 50kA Wave trap	4 Nos.	4	50259	201039	4	15000	60000	4	11,800	47,200	24.263	1,87,875	4	23,347	101388	4	17550	69800
iii	198kV, Single Phase Zinc Oxide Gapless Surge Arrester with insulating base, surge counter and leakage meter	6 Nos	6	31781	190874.3	6	15000	120000	6	32,784	2,36,208	4.68	41,838	8	12,573	114267	8	13650	109200
iv	36kV, 400A isolator with earth switch	1 Set	1	50259	50259.3	1	15000	15000	1	32,784	32,784	4048	36,832	1	25,347	25347	1	54000	54000
v	245kV, 2000A isolator with earth switch	2 Set	2	50259	101408	2	15000	30000	2	9,635	19,270	1629.7	1,10,273	2	25,347	50694	2	54000	108000
C	132kV OUT DOOR EQUIPMENTS				0			0			0			0		0			0
i	120kV Zinc Oxide Gapless Surge Arrester with insulating base, counter and leakage meter	6 Nos.	6	14681	136383	6	15000	120000	6	15,736	1,41,537	1525	31,726	6	8,676	63545	6	10800	86400
ii	145kV, 440CPF Capacitive Voltage Transformer with junction box	6 Nos.	6	14681	88322	6	15000	90000	6	26,227	1,57,362	3093	1,75,140	6	12,573	75438	6	22000	132000
iii	2000A, 3 Sec, 50kA Wave trap	4 Nos.	4	36214	144870	4	15000	60000	4	26,227	1,04,908	2467	1,16,535	4	22,173	88715	4	17550	69800
iv	145kV, 2000A isolator with earth switch	1 Set	1	14407	43461	1	15000	45000	1	5,911	5,911	31.72	5,943	1	25,347	50137	1	54000	108700
F	33kV OUT DOOR & INDOOR EQUIPMENTS				0			0			0			0		0			0
i	30kV, Zinc Oxide Gapless Surge Arrester	6 Nos.	6	2917	17504.4	6	2000	12000	6	13,114	78,682	1.02	6,602	6	1,561	9369	6	4550	27300
ii	36kV, 800A isolator with earth switch	1 Set	1	11500	11509.3	1	5000	5000	1	52,454	52,454	15.201	52,554	1	59,013	59013	1	16000	16000

General Manager (C&D)
HPPTCL, Shimla-5

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Sr. No.	DESCRIPTION OF EQUIPMENT/MATERIAL	Qty Unit	M/S Kanohar Electricals Ltd. Mandi (HP)			M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (HP)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (MH)					M/S Tirupati Electricals Ltd. Mumbai (MH)			M/S Toshiba T&D System (HP)		
			Qty	INSTALLATION AND CIVIL WORKS (Excl. P&I charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. P&I charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (Incl. P&I charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. P&I charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	3	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
i	33kV indoor switchgear comprising 36kV, 800A, 25kA VCB, 3 Nos. single phase epoxy resin cast CT of ratio 50-25-12.5-1A, class 0.2, burden 30VA, 3Nos. Single phase epoxy resin cast PT of ratio 33kV/√3/110V/√3, class 3P, burden 30VA including accessories and necessary over current earth fault protection, undervoltage protection, trip suppression, DC supervision, electronic breaker make, voltmeters, ammeters, indicators, alarm and annunciation on control panel complete in all respect for feeding 25kV Station transformer from tertiary of power transformer	1 Set	1	144878	144878	1	94490	94490	1	52,454	52,454	1,32,185	1,32,185	1	95,851	95851	1	81725	81725
ii	33kV indoor switchgear comprising 36kV, 800A, 25kA VCB, 3 Nos. single phase epoxy resin cast CT of ratio 50-25/1-1-1A, class 0.2, burden 30VA, 3Nos. Single phase epoxy resin cast PT of ratio 33kV/√3/110V, class 3P, burden 30VA including accessories and necessary over current earth fault protection, undervoltage protection, trip suppression, DC supervision, electronic breaker make, voltmeters, ammeters, indicators, alarm and annunciation on control panel complete in all respect for 33 kV outdoor supply feeder Panel	1 Set	1	144878	144878	1	94490	94490	1	52,454	52,454	1,32,185	1,32,185	1	95,851	95851	1	81,725	81725
D	220KV, 132kV SUPER STRUCTURES, 220kV, 132kV & 33 kV EQUIPMENT STRUCTURES & LIGHTNING MAST (GUARANTEED WEIGHT) (Note- The bidder may access and quote in MT)	MT	nil		420450	10	4500	345000			0		-	00	0.231	87852			0
i	220kV Galvanized Super Structures complete with gantries and columns				0			0	24	89.091	2,04,338	8.438	1,98,151	0	Included in A-ii		12.5	11,800.00	294500
ii	220kV Galvanized Equipment structures for CVT, LA and isolators				0			0	8.5	89.091	38,523	8.800	37,173	0	Included in A-ii		8.5	11,800.00	99530
iii	132kV Galvanized Super Structures complete with gantries and columns				0			0	19.5	89.091	1,61,027	8.800	82,160	0	Included in A-ii		12.5	11,800.00	156940
iv	132kV Galvanized Equipment Structures for LA				0			0	7	89.091	23,636	8.800	47,802	0	Included in A-ii		8.5	11,800.00	99530
v	33kV Equipment Structures for LA, Isolator				0			0	2	89.091	20,182	8.800	13,818	0	Included in A-ii		1	11,800.00	82500
vi	Lighting Mast (On Tower)				0			0	26.5	89.091	2,40,395	8.800	1,64,842	0	Included in A-ii		16	11,800.00	185000
H	TESTING AND MAINTENANCE EQUIPMENTS				0			0			0		-	0					0
i	Partial Discharge Monitoring System (GIS type)	1 Set	0	-	0			0	1	4.51	1.51	2,77,284.1607	2,77,286	1	Not Applicable		1	Included	
ii	Circuit Breaker Operational Analyser	1 Set	1	217.91	217.91			0	1	1.51	1.51	1,20,072.7761	1,21,974	1	Not Applicable		1	Included	
iii	Digital Manometer	1 No.	1	21.791	21.791			0	1	1.51	1.51	1,410	1,412	1	Not Applicable		1	Included	
iv	Micro Ohm Meter Portable Type suitable for measuring Contact Resistance of High Voltage Equipment	1 Set	1	217.91	217.91			0	1	3.51	1.51	86,980	88,891	1	Not Applicable		1	Included	
v	On line DC Earth Fault locator with Built in Charger and Rechargeable Batteries	1 Set	1	217.91	217.91			0	1	1.51	1.51	48,468	48,968	1	Not Applicable		1	Included	
vi	Automatic Capacitance and Tan Delta (HV)	1 Set	1	217.91	217.91			0	1	1.51	1.51	1,40,957	1,42,857	1	Not Applicable		1	Included	
vii	Automatic Turn Ratio Tester	1 Set	1	217.91	217.91			0	1	1.51	1.51	39,138	39,838	1	Not Applicable		1	Included	
viii	DC Winding Resistance kit	1 Set	1	217.91	217.91			0	1	1.51	1.51	42,756	42,756	1	Not Applicable		1	Included	
ix	Primary Current Injection Set	1 Set	1	217.91	217.91			0	1	1.51	1.51	5,24,928	5,24,928	1	Not Applicable		1	Included	
x	Circuit Breaker Time Analyzer	1 Set	1	217.91	217.91			0	1	1.51	1.51	2,11,406	2,11,406	1	Not Applicable		1	Included	
xi	Universal Relay Testing Kit	1 Set	1	217.91	217.91			0	1	1.51	1.51	3,48,745	3,48,745	1	Not Applicable		1	Included	
xii	Battery Discharge Kit	1 Set	1	217.91	217.91			0	1	1.51	1.51	40,557	40,557	1	Not Applicable		1	Included	
xiii	SF6 Gas Purity Detector for GIS, RCD, CT, VT, Air etc.	1 Set	1	217.91	217.91			0	1	1.51	1.51	2,24,865	2,24,865	1	Not Applicable		1	Included	
xiv	Relay Testing kit	1 Set	1	217.91	217.91			0	1	1.51	1.51	79,351	79,351	1	Not Applicable		1	Included	
xv	Synchronizing Trolley	1 Set	1	217.91	217.91			0	1	1.51	1.51	42,870	42,870	1	Not Applicable		1	Included	
I	RELAY AND PROTECTION PANELS AND SUB STATION AUTOMATION SYSTEM				0			0			0		-	0		0			0
1	220KV RELAY PROTECTION PANEL				0			0			0		-	0		0			0
i	Bus bar protection panel	1 Nos.	1	35,217.39	35217.5	1	25,000.00	25000	1	13,114	13,114	13,051.1924	1,26,170	1	22,175	22175	1	1,42,500.00	142500
ii	Bus coupler protection panel	2 No.	2	35,217.39	70434	2	25,000.00	50000	2	13,114	26,227	26,060	52,170	2	22,175	44350	2	85,000.00	170000
iii	Line protection panel	2 Nos.	2	35,217.39	70435	3	25,000.00	75000	3	13,114	39,341	3440.21675	1,68,804	3	22,175	66525	3	85,000.00	255000
iv	Transformer protection panel (HV side of 25.00/34.00/42.0 MVA power transformer)	1 Nos	1	35,217.39	35217.5	1	25,000.00	25000	1	13,070	13,070	16,870.16850	81,974	1	22,175	22175	1	63,000.00	63000
v	Circuit Breaker Relay Panel (as ele auto tie/bus	3 Nos.	3	35,217.39	105652.5	3	25,000.00	75000	3	13,070	39,211	41,870.12408	1,25,824	3	22,175	66525	3	63,000.00	189000
	(3) with auto reclosure	3 Nos.	2	35,217.39	70435	2	25,000.00	50000	2	13,241	26,483	41,338	82,676	2	22,175	44350	2	85,000.00	170000
vi	Time Synchronization equipment and other common equipment pertaining to relay and protection system etc	1 Lot	1	21,739.50	21739.5	1	-	0	1	1,511	1,511	32,645	32,645	1	22,175	22175	1	1,50,000.00	150000
2	132KV RELAY PROTECTION PANEL				0			0			0		-	0		0			0
i	Bus bar protection panel	1 Nos.	1	21,739.50	21739.5	1	25,000.00	25000	1	13,114	13,114	13,051.1924	1,26,170	1	22,175	22175	1	1,42,500.00	142500
ii	Circuit Breaker Relay Panel (as ele auto tie/bus	3 Nos.	3	21,739.50	65218.5	3	25,000.00	75000	3	13,114	39,341	41,338	1,24,014	3	22,175	66525	3	63,000.00	189000
	(3) with auto reclosure	2 Nos.	2	21,739.50	43479	2	25,000.00	50000	2	13,114	26,227	41,338	82,676	2	22,175	44350	2	85,000.00	170000
iii	Transformer protection panel (LV side of 25.00/34.00/42.0MVA power transformer)	1 No.	1	21,739.50	21739.5	1	25,000.00	25000	1	13,070	13,070	24,804	24,804	1	22,175	22175	1	63,000.00	63000
iv	Bus coupler protection panel	2 Nos.	2	21,739.50	43481	1	25,000.00	25000	2	13,070	26,141	39,211	78,422	2	22,175	44350	2	85,000.00	170000
v	Line protection panel	2 Nos.	2	21,739.50	43481	2	25,000.00	50000	2	13,241	26,483	82,169	1,64,338	2	22,175	44350	2	85,000.00	170000
J	AUTOMATION (SAS)				0			0			0		-	0		0			0
i	Substation Automation equipment(with fibre optics and other interface converter system	1 Set	1	2,89,740.00	289740	1	2,80,000.00	280000	1	13,114	13,114	69,601.5411	6,82,830	1	62,367	62367	1	27,02,600.00	2250000
ii	Testing and maintenance equipment	1 Set	1	21,739.50	21739.5	1		0	1	13,114	13,114	30,809.1186	3,82,924	1	Not Applicable		1	Included	
iii	Inverter of suitable capacity with hot standby unit for station HMI and communication devices i.e. printers, petitioners	1 Set	1	21,739.50	21739.5	1	-	0	1	13,114	13,114	27,560.9484	23,671	1	Not Applicable		1	15,280.00	15280

General Manager (C&D)
HPPTCL, Shimla-5

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Sr. No.	DESCRIPTION OF EQUIPMENT/MATERIAL	Qty A-nit	M/S Kanohar Electricals Ltd. Meerut (UP)			M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (DEL)			M/S RAJAU ELECTRICALS LTD. MUMBAI (MH)				M/S Blue Star Ltd. Mumbai (MH)			M/S Ivanhoe T&D System (DEL)		
			Qty	INSTALLATION AND CIVIL WORKS (Incl. T&I charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. T&I charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (Incl. T&I charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. T&I charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	3	29	31	32	33	34	35	36	37	38	39	40	41	-	43	44	45	46
K	AIR CONDITIONING AND VENTILATION SYSTEM				0			0								0			0
a	50# AC (2T Capacity) for 220KV & 132KV Control and relay room, PLCC room, office room	15 Nos	15	2697	40455	15	10,000	150000	0	13,114	1,80,704	425.70/KW	60,196	15	12,951	194265	15	5,715	85725
b	1HP split wall mounted fan with louvres, without any fittings system	15 Nos	15	724.36	10866.6	15	2,000.00	30000	15	13,114	2,05,514	330	5,267	15	1,357	20372	15	3,456.00	51840
c	HDmix swing exhaust fan with louvres, without any fittings system	15 Nos	15	724.36	10866.6	15	2,000.00	30000	0		0					0			0
d	Ventilation and Heating System				0			0	0		0			7	18,402	128822	1	8,00,000.00	800000
	220 kV system	1 set	1	72,435.09	72435	1	2,00,000.00	200000	0	13,114	72,114	5,63,735	1,83,735	1	14,422	14422	1	9,00,000.00	900000
	132 kV system	1 set	1	72,435.09	72435	1	2,00,000.00	200000	0	13,114	72,114	5,63,735	1,83,735	1	-	0			0
L	PLCC				0			0			0			0	19,200	19200	4	97000	388000
i	Coupling device (Phase to Phase) alongwith 500 m HF cable	4 Nos	4	25615	102460	4	15000	60000	4	25,114	32,456	17,107	16,599	1	19,012	132084	6	97000	582000
ii	Carrier equipment (for protection + speech and speech + Data)	8 Nos	8	29519	236152	8	14000	112000	8	25,114	1,04,909	57,164	4,31,256	3	51,971	155913	6	97000	582000
iii	Protection Coupler	8 Nos	8	29519	236152	8	15000	120000	8	25,114	1,04,909	53,164	4,31,256	1	52,873	52873	1	97000	97000
iv	PABX (24#) with telephones on 3 cable etc	1 Set	1	90104.5	90104.5	1	25000	25000	1	25,114	75,114	31,600	31,600	1	-	0	1	91000	91000
v	Testing and maintenance equipment	1 Set	1	1244	7243.5	1	0	0	1	3,08,909	1,04,909	1,45,0,3,767	18,599	1	292	292	1	97000	97000
vi	Pole testing kit	2 Nos	2	1244	7243.5	1	0	0	1	3,08,909	1,04,909	18,600	18,599	1	2,70,220	950913			
M	FIBRE OPTIC TX FARMAL EQUIPMENT	2 Set	2	575450	1150900	2	100000	200000	-	-	0	-	-	2	Included in M				
i	19" Rack with 21 slots	6 Nos							0	3,04,909	4,19,830	11,926	3,89,233	4	Included in M		4	13400	53600
ii	Power Supply Card (48 volts, DC)	6 Nos							0	3,04,909	3,39,270	793	7,930	4	Included in M		4	8750	35000
iii	Control Card with Alarm Cards and Terminal	6 Nos							0	3,04,909	3,39,270	793	7,930	4	Included in M		4	8750	35000
iv	32M-1 OLTE-4 SFP Cages including SFP	6 Nos							0	3,04,909	3,39,270	29,256	3,28,536	4	Included in M		4	12500	50000
v	SFP M1 2 (1550 nm for distance of 160 KM)	8 Pairs							0	3,04,909	16,74,540	75	1,200	10	Included in M		10	4750	47500
vi	Fibre Patch Cord for OLTE Terminals	16 Nos							0	3,04,909	4,19,830	5,700	22,800	4	Included in M		4	4500	18000
vii	64 Wide E&M (speech) Interface Card Ports	4 Nos							0	3,04,909	4,39,270	25,245	2,20,845	8	Included in M		8	11900	154400
viii	Integrated line protection coupler Accessories	4 Nos							0	3,04,909	4,19,830	2,700	21,360	4	Included in M		4	4500	18000
ix	Low Speed and high Speed Data Interface Card - 4 Ports	4 Nos							0	3,04,909	4,19,830	1,227	21,948	4	Included in M		4	11500	137000
x	Fully Wired Cabinet Engineering Order Wire Phone (NOP)									-	0	-	-	0	-				
	LCT FOR MAINTENANCE CONSISTING OF ITEMS MENTIONED BELOW:																		
	(a) FMS SOFTWARE	1 Nos							0	3,04,909	4,19,830	24,258	2,97,548	4	Incl.data in M		4	Included Above	
	(b) Laptop - 2.33 GHz, 2 GB DDR, 120 - 160 GB SATA HDD, Integrated gigabit Ethernet Network Interface, 15" TFT Screen Window OS, MS Office Basic, OEM Single Antivirus Any other item required to complete the FCTE for both ends that bidder wishes to quote	1 Nos							0	3,04,909	4,19,830	19,361	23,361	4	Included in M		4	Included Above	
					0			0			0		-	0		0			0
B	LT SWITCHGEAR																		
	LT Panel having 2 Nos 800A, Air Circuit Breaker incomers, 800A Bus bar running throughout the length, one ACB for 250KVA, 33/0.433 Station Transformer and 2nd for 250KVA DG set with over current, earth fault, under over voltage protection and interlocking arrangement. This arrangement should be such that the DG set runs and takes the load automatically on the failure of main AC with option that operator may run the DG set on manual mode also. The LT panels comprises -				0			0			0		-	0		0			0
a	415V, 800A, Air Circuit Breaker board	2 Set	2	14487	28974	2	15000	30000	2	13,114	29,227	1,15,340	2,23,680	2	30,206	75219	2	54000	108000
b	415V AC Distribution Board having Residual MCCB for particular load with capacity as required	1 Set	1	14487	14487	1	15000	15000	1	13,114	13,114	1,12,425	1,12,425	1	12,810	19819	1	41500	41500
c	415V Main Lighting Distribution board having residual MCCB for particular load with capacity as required	1 Set	1	14487	14487	1	15000	15000	1	13,114	13,114	52,752	52,752	1	12,810	19819	1	36250	36250
d	415V Emergency Lighting Distribution board having residual MCCB for particular load with capacity as required	1 Set	1	14487	14487	1	15000	15000	1	13,114	13,114	40,557	40,557	1	15,070	19819	1	27250	27250
e	415V Air conditioning and Ventilation Distribution Board having residual MCCB for particular load with capacity as required	1 Set	1	7244	7243.5	1	15000	15000	1	13,114	13,114	27,973	27,973	1	16,233	19819	1	27250	27250
f	415V Yard and Sub Station surrounding lighting distribution board having residual MCCB for particular load with capacity as required	1 Set	1	7244	7243.5	1	15000	15000	1	13,114	13,114	18,918	18,918	1	11,269	11089	1	22700	22700
g	220V AC Distribution board having double pole MCB with capacity as required	1 Set	1	7244	7243.5	1	15000	15000	1	13,114	13,114	24141.9565	24,141	1	11,269	11089	1	22700	22700
viii	415V AC Distribution Board for 220V & 48V DC battery charger having residual MCCB for particular load with capacity as required	1 Set	1	7244	7243.5	1	15000	15000	1	13,114	13,114	17,256	31,256	1	11,269	11089	1	22700	22700
					0			0			0		-	0		0			0
D	DC BATTERIES, BATTERY CHARGER AND DC DISTRIBUTION BOARD				0			0			0		-	0		0			0
i	220V, 400AH DC battery set alongwith mounting racks, 2 Nos hydrometers, 2 Nos thermometers, 2 Nos cell tester	1 Set	1	67500	217365	1	15000	15000	1	13,114	72,114	77,233	77,233	1	15,943	19842	1	73000	73000
ii	48V, 400AH DC battery set alongwith mounting racks, 2 Nos hydrometers, 2 Nos thermometers, 2 Nos cell tester	1 Set	1	25720	217365	1	15000	15000	1	13,114	72,114	1,63,5,963	18,824	1	12,973	12973	1	25000	25000
iii	Electronic Double Float cum Boost Charger 220V DC, 100A with mandatory protections and annunciation	1 Set	1	26218	26218	1	15000	15000	1	13,114	13,114	13,542	85,342	1	18,310	19810	1	37000	37000
iv	Electronic Double Float cum Boost Charger 48V DC, 25A with mandatory protections and annunciation	1 Set	1	36218	36218	1	15000	15000	1	13,114	13,114	34,256	34,256	1	18,310	19815	1	37000	37000
v	Electronic 220V DC Distribution Board with mandatory provisions and annunciation	2 Set	2	14487	28974	2	15000	30000	2	13,114	29,227	25,335	50,671	2	7,921	15842	2	37000	74000

General Manager (C&D)
HPPTCL, Shimla-5

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Sr No	DESCRIPTION OF EQUIPMENTS/MATERIAL	Qty./unit	M/S Kamdar Electricals Ltd. Meerut (UP)			M/S Shyam Indus Switchgear Pvt. Ltd. New Delhi			M/S RAJRAJ ELECTRICALS LTD. MUMBAI (MH)				M/S Shankar Ltd. Mumbai (MH)			M/S Toshiba T&D System (UP)		
			Qty	INSTALLATION AND CIVIL WORKS (incl FBI charges)		Qty	INSTALLATION AND CIVIL WORKS (incl FBI charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (incl FBI charges)		Qty	INSTALLATION AND CIVIL WORKS (incl FBI charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	3	20	21	22	25	26	27	28	29	30	31	32	33	34	35	36	37	38
a	11kV/433 V, 1MVA Distribution Transformer with Kiosk	2 Set	2	14487	28974	2	10000	20000	2	23,114	46,227	11215	22,430	2	7,521	15042	2	37500	75000
aa	Kiosk 500 with stand	1 Set	1	1443	1443.7	1	10000	10000	1	13,114	13,114	2,188	2,188	1	1,201	1201	1	25000	25000
ab	Kiosk indoor type DG 625 KVA with Canopy and exciter, genarator centre panel	1 Set	1	11450	11450	1	114000	114000	1	13,114	13,114	2,37,437	2,37,437	1	22,763	22763	1	125000	125000
G	FIRE DETECTION AND EXTINGUISHING SYSTEM				0						0		-			0			
1	FIRE DETECTION SYSTEM - Fire detection should be such that all the unsuitable sensors installed in the system should be given analogue ID and if any of sensors observe abnormality, its ID should display on LCD screen of detection panel with alarm and annunciation so that the operational personnel target that particular place for fire extinction				0			0			0		-			0			0
a	Fire detector and smoke detectors suitably distributed on the roof of buildings along with wiring as required, alarm and annunciator system	1 Set	1	36218	36218	1	0	0	1	11,400	11,400	1,215	1,215	1	1,521	1521	1	36500	36500
2	FIRE EXTINGUISHING SYSTEM				0			0			0		-			0			0
i	Nitrogen injection fire prevention and extinguishing system for power transformer	1 Set	1	361315	361315	1	200000	200000	1	2,17,810	2,17,810	16,834.717	1,84,875	1	15,542	15542	1	750000	750000
ii	Fire protection for GIS and Control room buildings etc. (Portable type fire extingui sher system)	1 Set	1	36218	36218	1	150000	150000	1	23,867	23,867	15,133	15,133	1	Not Applicable		1	375000	375000
iii	a) CO2 Cylinders 9 Kg	15 Nos	15	included		15	100.00	1500	15	131	1,961	2,581	38,721	15		1158	15	6,000.00	90000
	b) CO2 Cylinders 22.5 Kg	10 Nos	10	included		10	100.00	1000	10	131	1,310	3,161	31,610	10		758	9	9,500.00	8550
	c) ABC class dry power type fire extinguisher 9 Kg	5 Nos	5	included		5	100.00	500	5	131	656	451	2,255	10		758	5	1,800.00	9000
	d) ABC class dry power type fire extinguisher 5 Kg	5 Nos	5	included		5	100.00	500	5	131	656	451	2,255				5	1,800.00	9000
	e) BC class dry power type fire extinguisher 9 Kg	5 Nos	5	included		5	100.00	500	5	131	656	2,677	13,384	10		758	5	4,500.00	22500
	f) BC class dry power type fire extinguisher 22.5 Kg	5 Nos	5	included		5	100.00	500	5	131	656	3,677	18,384				5	4,500.00	22500
	g) Foam type fire extinguisher 9 ltr	5 Nos	5	included		5	100.00	500	5	131	656	3,677	18,384	10		758	5	3,300.00	16500
	h) Foam type fire extinguisher 50 ltr	3 Nos	3	included		3	100.00	300	3	131	393	3,677	11,030				3	3,300.00	9900
iii	Fire buckets with stand	4 Sets	4	included		4	100.00	400	4	131	525	665	2,661	4		152	4	1,200.00	4800
iv	HVW Spray System, Hooter/ System and complete GIS & DG Piping and accessories viz. suitable size Pump House for 3 Nos. 132/220 kV (3 Nos)/ 66/42.5 MVA, 1 Phase Auto Power Transformers as per CBIP Publication No. 295 (Manual on Transformers)	3 Set	3	1,44,870.00	434610	3	1,00,000.00	300000	3	2,57,544	1,73,633	1,02,920	3,08,759	3	1,51,570	454709	3	7,25,000.00	2175000
H	ILLUMINATION SYSTEM				0			0			0		-			0			0
i	An installation with LED luminary system in GIS halls and control room building	1 Job	1	36,218.00	36218	1	2,00,000.00	200000	1	8,27,840	5,27,160	58,304	58,304	1	3,80,156	380156	1	24,00,000.00	2400000
ii	High Mast lighting system in switchyard and street lighting	1 Job	1	36,218.00	36218	1	3,30,000.00	330000	1	2,9,114	10,914	1,04,086	1,04,086	1	79,219	79219	1	8,50,000.00	8500000
J	POWER AND CONTROL CABLES				0			0			0		-			0			0
i	(i) 33KV Grade, 150 Sq.mm XLPE insulated SF6 GIS compact Circular Aluminium conductor single core cable, screened armoured with non magnetic material and PVC Sheathed, conforming to IS: 7098 (Part II), (unarmoured cable data) for terminating 250MVA, 33/0.4KV Station Transformer	0.75 km	0.75	144570	108427.5	0.75	50000	37500	0.75	2,57,369	1,16,632	2,69,463	1,39,847	0.75	188153	141076.5	0.75	41000	30750
	(ii) Heat Shrinkable termination kits for 150 sq.mm XLPE cable	10 nos.	10	2244	22440	10	2500	25000	10	1,12,363	11,23,630	891	8,910	10	5,643	56430	10	41000	410000
2	1.1 kV Grade PVC Insulated Aluminium Conductor Power Cables and Copper Conductor Armoured Control Cables alongwith Lugs, Glands, Straight Joints, Termination Kit etc.				0			0			0		-	0		0			0
	(i) 3.5 Core, 630 Sq.mm Aluminium conductor armoured cable	0.65 KM	0.65	88422	57474.3	0.65	50000	32500	0.65	13,114	8,524	137	89	0.65	11,250	7312.5	0.65	45000	29250
	(ii) 3.5 Core, 400 Sq.mm Aluminium conductor armoured cable	0.65 KM	0.65	88422	57474.3	0.65	50000	32500	0.65	13,114	8,524	140	91	0.65	11,250	7312.5	1	54000	54000
	Terminations for above				0			0			0	33,086	-	0		0			0
3	Power Copper Cable (FRLS)				0			0			0		-	0		0			0
	(i) 4 C x 16 sq. mm	2.5 km	2.5	57648	144870	2.5	12500	31250	2.5	26,750	66,875	58,754	1,46,884	2.5	26400	66012.5	2.5	26500	66250
	(ii) 4 C x 6 sq. mm	1.5 km	1.5	47548	71322	1.5	15000	22500	1.5	26,750	40,125	23,604	35,406	1.5	26400	39607.5	1.5	27500	41250
	(iii) 2 C x 6 sq. mm	2.5 km	2.5	47548	118870	2.5	10000	25000	2.5	13,114	32,785	9,532	23,830	2.5	26400	66012.5	1.5	25000	37500
	(iv) 2 C x 4 sq. mm	1.5 km	1.5	47548	71322	1.5	10000	15000	1.5	13,114	19,671	8,532	12,798	1.5	26400	39607.5	1.5	25000	37500
	(v) 3C x 4 sq. mm	0.275 KM	0.25	57846	14461	0.25	25000	6250	0.25	26,750	6,688	29,020	7,255	0.25	47,520	11880	0.25	54500	13625
	(vi) 1Cx500 sq. mm Al. XLPE cable	0.275 KM	0.25	57846	14461	0.25	50000	12500	0.25	26,750	7,250	1,61,035	40,259	0.25	47,520	11880	0.25	54500	13625
	(vii) 4Cx400 sq. mm Al. XLPE cable	0.275 KM	0.25	57846	14461	0.25	25000	6250	0.25	26,750	7,250	23,875	5,969	0.25	47,520	11880	0.25	34700	8675
	(viii) 1Cx120 sq. mm Al. PVC cable	0.275 KM	0.25	57846	14461	0.25	25000	6250	0.25	26,750	7,250	8,545	2,136	0.25	47,520	11880	0.25	34700	8675
	(ix) 4Cx70 sq. mm Al. XLPE cable	0.25 KM	0.25	57846	14461	0.25	25000	6250	0.25	26,750	7,250	15,540	3,885	0.25	47,520	11880	0.25	34700	8675
	(x) 4Cx10 sq. mm Al. XLPE cable	0.25 KM	0.25	57846	14461	0.25	10000	2500	0.25	26,750	7,250	11,594	2,899	0.25	32,908	8227.25	0.25	45500	11375
	(xi) Fire Optical Cable	0.25 KM	0.25	57846	14461	0.25	10000	2500	0.25	26,750	7,250	11,594	2,899	0.25	39,668	9921.25	0.25	37700	9425
	(xii) 7 Control cable 4Px0.5 sq.mm	0.25 KM	0.25	57846	14461	0.25	10000	2500	0.25	26,750	7,250	11,594	2,899	0.25	39,668	9921.25	0.25	37700	9425
	(xiii) Battery cable 600A	0.5 km	0.5	57693	28846	0.5	10000	5000	0.5	26,750	14,438	13,547	7,548	0.5	39,720	19860.5	0.5	30700	15350
	Terminations for above				0			0			0	31,594	-	0		0	1	1515000	1515000
4	Control Cables (FRLS)				0			0			0		-	0		0			0
	(i) 3 C x 2.5 sq. mm	3.0 km	3.0	36218	72436	3	10000	30000	3	26,750	80,250	5,831	17,492	3	31,680	95040	3	21000	63000
	(ii) 4 C x 2.5 sq. mm	1.5 km	1.5	36218	54326.25	1.5	10000	15000	1.5	26,750	40,125	5,803	14,754	1.5	31,680	47520	1.5	29500	44250
	(iii) 7 C x 2.5 sq. mm	1.0 km	1.0	36218	36217.5	1	10000	10000	1	26,750	26,750	16,351	16,351	1	31,680	31680	1	32700	32700
	(iv) 10 C x 2.5 sq. mm	2.5 km	2.5	36218	90543.75	2.5	15000	37500	2.5	13,114	32,784	21,930	54,825	2.5	31,680	79200	2.5	38025	95062.5
	(v) 19 C x 2.5 sq. mm	1.5 km	1.5	45481	68221.5	1.5	15000	22500	1.5	13,114	19,670	30,720	46,080	1.5	31,680	47520	1.5	39950	59925
	(vi) 12 C x 2.5 sq. mm	1.0 km	1.0	45481	45481	1	25000	25000	1	26,750	26,750	35,580	35,580	1	31,680	31680	1	41040	41040
	(vii) 16 C x 2.5 sq. mm	1.0 km	1.0	45481	45481	1	25000	25000	1	26,750	26,750	35,580	35,580	1	31,680	31680	1	41040	41040

General Manager (C&D)
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Sr. No.	DESCRIPTION OF EQUIPMENT/MATERIAL	Qty./unit	M/S Kanchan Electronic Ltd Meerut (U1)			M/S Shyam Indus Solutions Pvt. Ltd New Delhi (U2)			M/S. GAJANAN ELECTRICALS LTD. MUMBAI (U3)					M/S. Shiv Shri Ltd. Mumbai (U4)			M/S Toshiba T&D System (U5)		
			Qty	INSTALLATION AND CIVIL WORKS (incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS (incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS (incl. F&I charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	3	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
	(vii) 16 Cx 2.5 sq. mm	1.0 km	1.0	43487	43487	1	23000	23000	1	28,970	28,970	41,030	41,030	1		21584	1	40400	40400
	(viii) 2(7Cx1.5 sq.mm	1.0 km	1.0	43487	43487	1	23000	23000	1	28,970	28,970	58,916	58,916	1		21584	1	49050	49050
	(ix) 12 Cx0.75 sq.mm	1.0 km	1.0	19487	19487	1	23000	23000	1	28,970	28,970	8,476	8,476	1		21584	1	29650	29650
	(x) 4 Cx1.0 sq.mm	1.0 km	1.0	19487	19487	1	23000	23000	1	28,970	28,970	8,575	8,575	1		21584	1	29650	29650
	(xi) 7 Cx 4 sq.mm	1.5 km	1.5	14487	21730.5	1.5	23000	33000	1.5	28,970	43,455	28,349	28,349	1.5		21584	1.5	45525	68288
	(xii) PCH10 sq.mm	2.5 km	2.5	14487	36217.5	2.5	23000	58000	2.5	28,970	72,425	99,135	247,837	2.5		21584	2.5	29650	74075
	Terminations for above				0			0			0		-	0	Included in Rates		1	2959000	2959000
F	EARTH MAT & ASSOCIATED ACCESSORIES				0			0			0		-	0		0			0
	(i) 16 S. Electrodes 63mm dia.	1000 kg	1000	14487	14487000	1000	10	10000	1000	131	131,140	0	0.287	1000		14400	1000	200	200000
	(ii) 16 S. Flat 65x6 mm for risers	500 kg	500	14	7243.5	500	15	7500	500	131	65,570	5	2,644	500		40	500	134	67000
	(iii) 16 S. Flat 65x6 mm for main earthmat	3 MT	3	144870	434610	3	84000	252000	3	1,31,140	3,93,420	58,134	1,74,402	3		3,59,040	3	2,570000	7710000
	(iv) 75 x12mm G. S. Flat	200 kg	200	14	2667.4	200	15	3000	200	131	26,228	7	1,396	200		150	200	21000	39000
	(v) 50 x 6mm G. S. Flat	300 kg	300	14	4546.1	300	15	4500	300	131	39,342	7	2,040	300		90	300	133	41100
	(vi) Bonded Copper 35 x 2mm for double flexure risers from flat risers to equipment	300 Nb	300	200	101400	300	200	78000	300	131	41,899	11	3,653	300		90	300	97	31400
M	Miscellaneous Items, Earthing Material and Erection hardware such as MS, Insulator Strings, Disc Insulator, Hardware, Spacers, Conductor(s), Cable Trays, Clamps, Connectors including Equipment Connectors, Junction Box, Earthwire, Lightning Protection, Burried Cable Trenches & Pipes for Equipment and Lighting, Nuts & Bolts all Accessories, etc for completion of Scope of Work.	LS	1	217305	217305	1	500000	500000	1	131	131	2,99,744	2,99,744	0	115,344	0	1	3500000	3500000
V	A) EOT crane for 200/ 132KV Transformer 150 MT (Decided)	1 Set			0			0	1	1,63,570	1,63,570	1,34,216	1,34,216	1	Quoted		0	Not Applicable	
	B) EOT crane for 220kV & 132KV GIS Hall 5 MT	2 Set	2	194870	389740	2	160000	320000	2	1,57,305	3,14,730	1,32,155	2,64,310	2		576240	2	1260000	2520000
W	TOOLS AND PLANTS				0			0			0		-	0		0			0
i	High Vacuum Filtration Machine for Transformer Oil Filtration, capacity 9000 LPH	1 Set	1		0	1	10000	10000	1	3,313	1,311	2,33,496	2,11,496	1	Not Applicable		1	Included Above	
ii	Clip -on -Meter (Digital) (0 - 300 - 600 A)	2 Nos.	2		0			0	2	131	262	6,057	2,111	2	Not Applicable		2	Included Above	
iii	Multi-meter Digital	2 Nos.	2		0			0	2	131	262	276	552	2	Not Applicable		2	Included Above	
iv	Earth Resistance Tester (Four terminal digital type with data storage and printout	1 Nos	1		0			0	1	131	131	2,442	2,442	1	Not Applicable		1	Included Above	
v	Megohmeter insulation tester (Megger) 5KV & 2.5KV incl. voltage control switch	1 Set	1		0			0	1	131	131	4,230	4,230	1	Not Applicable		1	Included Above	
vi	Phase sequence meter	2 Nos	2		0			0	2	131	262	1,103	2,206	2	Not Applicable		2	Included Above	
vii	Oil testing kit	1 Set	1		0			0	1	131	131	89,630	89,630	1	Not Applicable		1	Included Above	
viii	Tahrag sticks	2 Set	2		0			0	2	131	262	3,086	3,172	2	Not Applicable		2	Included Above	
ix	Ax/Hack-saw (width 2 1/2" long)	3 Nos	3		0			0	3	131	393	1,521	15,215	3	Not Applicable		3	Included Above	
x	Movable Multi-position Aluminium Ladder extended upto 10M long	1 Nos	1		0			0	1	131	131	13,219	13,219	1	Not Applicable		1	Included Above	
xi	20 Spanner Set 6mm to 12mm	1 Set	1		0			0	1	131	131	397	397	1	Not Applicable		1	Included Above	
xii	Ring Spanners set 6mm to 32mm	1 Set	1		0			0	1	131	131	793	793	1	Not Applicable		1	Included Above	
xiii	Chiselling (metal 15 sq mm to 630 sq mm	1 Set	1		0			0	1	131	131	1,287	1,287	1	Not Applicable		1	Included Above	
xiv	Drilling jobs	2 Nos	2		0			0	2	131	262	264	528	2	Not Applicable		2	Included Above	
xv	Weir Stone	4 Nos	4		0			0	4	131	525	44	176	4	Not Applicable		4	Included Above	
xvi	Hacksaw (Flat 8" long)	4 Nos	4		0			0	4	131	525	44	176	4	Not Applicable		4	Included Above	
xvii	Wood gritter	4 Nos	4		0			0	4	131	525	44	176	4	Not Applicable		4	Included Above	
xviii	Circuit plier	4 Nos	4		0			0	4	131	525	44	176	4	Not Applicable		4	Included Above	
xix	Portable drill machine 6mm to 10mm	1 No	1		0			0	1	131	131	1,057	1,057	1	Not Applicable		1	Included Above	
xx	Pulverizer and washer Grinder 50mm	1 No	1		0			0	1	131	131	2,031	2,031	1	Not Applicable		1	Included Above	
xxi	Air Blower	1 No	1		0			0	1	131	131	837	837	1	Not Applicable		1	Included Above	
xxii	Vacuum Cleaner wet & dry	1 No	1		0			0	1	131	131	793	793	1	Not Applicable		1	Included Above	
xxiii	Screw driver set	2 Nos	2		0			0	2	131	262	44	88	2	Not Applicable		2	Included Above	
xxiv	Pulling & lifting machine 3.5/5T	2 Nos	2		0			0	2	131	262	3,064	6,128	2	Not Applicable		2	Included Above	
xxv	Electric conductor cable	1 No	1		0			0	1	131	131	44	44	1	Not Applicable		1	Included Above	
xxvi	Electric grinder	1 No	1		0			0	1	131	131	793	793	1	Not Applicable		1	Included Above	
xxvii	Bench vice	2 Nos	2		0			0	2	131	262	705	1,411	2	Not Applicable		2	Included Above	
xxviii	D. Shackle Heavy duty	5 Nos	5		0			0	5	131	656	204	1,022	5	Not Applicable		5	Included Above	
xxix	D Shackle small	5 Nos	5		0			0	5	131	656	220	1,101	5	Not Applicable		5	Included Above	
xxx	U Bolt Heavy duty	5 Nos	5		0			0	5	131	656	44	220	5	Not Applicable		5	Included Above	
xxxi	U Bolt small	5 Nos	5		0			0	5	131	656	44	220	5	Not Applicable		5	Included Above	
xxxii	Readymade steel sling	5 Nos	5		0			0	5	131	656	705	3,525	5	Not Applicable		5	Included Above	
xxxiii	Readymade PP rope sling	5 Nos	5		0			0	5	131	656	309	1,546	5	Not Applicable		5	Included Above	
xxxiv	Pipe bending machine	1 No	1		0			0	1	131	131	705	705	1	Not Applicable		1	Included Above	
xxxv	Chain stretch up to 5 Ton	1 No	1		0			0	1	131	131	2,057	2,057	1	Not Applicable		1	Included Above	
xxxvi	Rubber Hand Gloves	10 pair	10		0			0	10	131	1,311	88	881	10	Not Applicable		10	Included Above	
xxxvii	Fan tin	5 Nos	5		0			0	5	131	656	176	881	5	Not Applicable		5	Included Above	

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Sr. No.	DESCRIPTION OF EQUIPMENT/MATERIAL	Qty/Unit	M/S Aavishkar Enclosures Ltd. Meerut (UP)			M/S Shyam Indus Solutions Pvt. Ltd. Rae Bareli (UP)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (MH)					M/s. Bluestar Ltd. Mumbai (MH)			M/S Toshiba T&D System (MH)		
			Qty	INSTALLATION AND CIVIL WORKS (Incl. P&F charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. P&F charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (Incl. P&F charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. P&F charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	3	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
xxxx	Mount Pile	5 Nos.	5		0			0	5	111	555	176	881	5	Not Applicable		5	Included Above	
xxxx	Triangular Pile	5 Nos.	5		0			0	5	111	555	176	881	5	Not Applicable		5	Included Above	
xxxx	Stabilizer Horns	5 Nos.	5		0			0	5	121	606	44	219	5	Not Applicable		5	Included Above	
xxxx	Mech. arrester pack 501	4 Nos.	4		0			0	4	131	525	1,763	7,052	4	Not Applicable		4	Included Above	
xxxx	Hydrauler Jack 501	4 Nos.	4		0			0	4	131	525	1,763	7,052	4	Not Applicable		4	Included Above	
xxxx	Prolong X hyperaluminium cable extended up to 8 M long	1 Nos.	1		0			0	1	121	121	5,084	5,084	1	Not Applicable		1	Included Above	
3	ACSR Rabbit Conductor (54/7/3.53 mm) for Extending the A/B Bus -Bar from HPPTCL to Everest Act Sub-Station	1.5 kMs	1.5	82500	123750	1.5	119300	178950	1.5	1,31,135	1,96,703	34,148	51,222	1.5	1,38,000	207000	1.5	670000	1005000
4	11 Sub-station aerial along with 30HP motor W.star delta starter and wiring complete in all respect	1 Set	1	11000	11000	1	33000	33000	1	13,114	13,114	28,457	28,457	1	19,200	19200	1	190000	190000
	(i) Virtual Metering System complete with all accessories	1 Set	1	100000	100000	1	200000	200000	1	13,114	13,114	4,40,617	4,40,617	1	122700	122700	1	670000	670000
	(ii) Digital PLCC system	1 set	1	100000	100000	1	200000	200000	1	69,344	69,344	5,05,771	5,05,771	1	33750	33750	1	345000	345000
	(iii) Inter-utility meters with on line software for such feeders both	8 Nos.	8	22500	180000	8	10000	170000	8	13,114	104,909	18,758	1,50,064	8	15360	122880	8	710250	945000
2	ANY OTHER ITEM WHICH IN THE OPINION OF THE BIDDER IS ESSENTIAL AND HE MAY LIKE TO QUOTE				0			0			0		-			0			0
1	Auxiliary bus bar arrangement to connect the existing spare transformer with proposed transformer bays	1 Job	1	1,10,000.00	110000	1	3,00,000.00	300000			0		-	1	4,75,215	475215	1	38,00,000.00	3800000
a	220kV GIS Busbar with one Number Horizontal and one number vertical bay	30 RM	30	6,300.00	189000			0	30	43,894	13,16,820	9,645	2,89,335	30	15,963	478890	30	20,000.00	600000
a	132kV GIS Busbar with one Number Horizontal and one number vertical bay	30 RM	30	5,900.00	163800			0	30	43,894	13,16,820	17,708	5,31,240	30	15,963	478890	30	20,000.00	600000
									28	4,340	82,816	6,830	1,23,107			0			0
A	Bus Duct Support									-	0	-	-			0			
B	BOQ FOR SINGLE PHASE 415 BAY TO KEEP THE SPARE TRANSFORMER UNENGERGISED										0					0			
(i)	Equipment								1	19,470	19,470	94,359	94,359			0			
a	245kV, 2000A Circuit Breaker (Single Pole), 245 kV, 4000 A, 50 kA for 3.0 seconds								1	4,357	4,357	48,404	48,404			0			
b	245kV, 2000A isolator with 1- earth switch								1	8,157	8,157	53,187	53,187			0			
c	245kV, 2000A isolator with 2- earth switch								1	8,157	8,157	58,843	58,843			0			
d	245kV Current Transformers Make: 800 - 400/1-1-1-1-1-1A																		
e	120kV Zinc Oxide Gapless Surge Arrester with with insulating base, counter and leakage meter								1	4,300	4,300	4,626	4,626			0			
f	Post Insulator								1	926	926	5,410	5,410			0			
g	Control and Relay panel for single phase transformer								1	4,500	4,500	55,077	55,077			0			
(ii)	Clamp & Connectors										0					0			
a	ACSR "MOOSE" Conductor								60	191	11,460	54	3,288			0			
b	T- Connector suitable for single phase ACSR to single phase ACSR Jumper from Busbar to location								1	654	550	551	551			0			
c	Tee-bimetal clamp for 245kV Circuit Breaker isolator for single phase ACSR								2	656	1,311	551	1,102			0			
d	Tension Clamp for 245kV CURRENT TRANSFORMER suitable for single phase ACSR								2	656	1,311	725	1,450			0			
e	Through Type Terminal Connector for 245 kV single phase ACSR Conductor								1	656	656	716	716			0			
f	Through Type Clamp for 245 kV, 1A terminal for single phase ACSR Conductor								1	656	656	716	716			0			
g	Clamp for Transformer bushing, suitable for single phase ACSR Conductor								1	656	656	501	501			0			
(iii)	Equipment Structure										0					0			
a	245kV, 2000A isolator with 1- earth switch								1.65	6,340	4314	6,830	7,171			0			
b	245kV, 2000A isolator with 2- earth switch								1.65	6,340	4,879	6,830	7,171			0			
c	245kV Current Transformers (Make: 800 - 400/1-1-1-1-1-1A)								0.12	6,340	1,969	6,830	2,188			0			
d	120kV Zinc Oxide Gapless Surge Arrester with with insulating base, counter and leakage meter								0.13	6,340	927	6,830	998			1			
e	Post Insulator								0.35	6,340	508	6,830	1,524			0			
	220/33kV, 160 MVA Transformer				0			0			0		-			0	1	167,102	250000
	400 Amps, (80 x 8 sq.mm) Cu Bus															0			
	300 x 300, 8 mm dia MS Shield																		
	220 KV 1 Phase spare transformer CB relay panel																		
	132 KV 1 Phase spare transformer CB relay panel																		
	220/132 KV 1 Phase spare transformer protection panel																		
	33 KV NCT																		
	Solar Grid spares for control room & conference room																		
	Joint Box																		
	Approach cable (3Nº) single mode armoured FO cable																		
	HF Cable																		
	33kV Pole type Post Insulator 200MM 220 Volt AC																		

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Sl. No.	DESCRIPTION OF EQUIPMENT/MATERIALS	Qty./unit	M/S Kanwar Electricals Ltd. Mandi (HP)			M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (DL)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (MH)					M/S Shiv Shri Ltd. Mumbai (MH)			M/S Tesmec T&D System (HP)		
			Qty	INSTALLATION AND CIVIL WORKS (Incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (Incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. F&I charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	3	29	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
	Bus-I sectionalizer bay module, 145 kV, 4000 A, Short Circuit Current Rating of 50kA for 3.0 seconds, SF6 Gas Insulated Bus Coupler Bay Module comprising of SF6 Gas Insulated Circuit Breaker (4,000 A), Current Transformers (Ratio 4000-2000 / 1 - 1 - 1 - 1 - 1 A), Bus Isolator / Disconnector Switches (4,000 A) combined with earth switch complete with manual and Motor Driven Operating Mechanism, High-speed fault making earthing switch complete with galaxy operated manual and motor driven operating mechanism, Local Control Cubicle (LCC if required), SF6 Gas Monitoring system with complete Bay, GIS Back and All GIS & Building terminal connections and Accessories etc complete in all respects																		
	Bus Sectionalizer bay module, 145kV, 3150 A, Short Circuit Current Rating of 40kA for 3.0 seconds, SF6 gas insulated bus coupler bay module comprising of SF6 gas insulated circuit breaker (3150 A), current transformers (Ratio 3150-1600 / 1 - 1 - 1 - 1 - 1 A), Bus Isolator / Disconnector switches (3150 A) combined with earth switch complete with manual and Motor Driven Operating Mechanism, High-speed fault making earthing switch complete with galaxy operated manual and motor driven operating mechanism, Local Control Cubicle (LCC if required), SF6 Gas Monitoring system with complete Bay, GIS Back and All GIS & Building terminal connections and Accessories etc complete in all respects																		
																0			
																0			
																0			
1	MANDATORY SPARES															0			
1.1	MANDATORY SPARES FOR POWER TRANSFORMER															0			
i	220 kV Oil to Air bushing complete with metal parts and gasket	1 No.							1			91,830	91,830			0			
ii	132 kV Oil to Air bushing complete with metal parts and gasket	1 No.							1			46,893	46,893			0			
iii	Buchholz relay	2 No.							2			1,166	2,332			0			
iv	Winding Temperature Indicator	2 No.							2			1,552	3,104			0			
v	Oil Temperature Indicator	2 No.							2			3,852	7,703			0			
vi	Set of valves of all sizes	1 No. of each type							1			24,526	24,526			0			
vii	Complete set of gaskets used	1 Set							1			10,423	10,423			0			
viii	Oil sampling bottles	3 No.							3			1,040	3,121			0			
ix	Pressure relief device	2 No.							2			2,838	5,676			0			
x	Magnetic Oil Level Gauge	2 No.							2			1,652	3,303			0			
xi	Pointer tap position indicator	2 No.							3			1,381	2,761			0			
xii	Oil surge relay	2 No.							3			5,238	15,471			0			
xiii	Thyrit Resistance box for winding temperature	2 No.							2			17,939	35,878			0			
xiv	Oil storage tank with accessories (To HL)	1 No.							2			1,79,394	3,58,788			0			
xv	OLTC replacement tank	1 No.							1			47,969	47,969			0			
xvi	Pressure relief device for OLTC	1 No.							1			170	170			0			
xvii	Radiator fins/ plates for radiators cleaning	1 Set							4			1,435	5,740			0			
xviii	Exhaust fan used to force air	4 Nos.							1			17,939	80,619			0			
xix	Oil temperature sensing cable with capillary	2 Nos.							1			215	215			0			
xx	Pressure relief device for OLTC	1 No.														0			
2	COMMON SPARES, MAINTENANCE TOOLS FOR 220kV & 132kV GIS															0			
2.1	220kV GIS															0			
i	SF_6 Gas Pressure Relief Devices 3 nos. of each type	1 No.							1			1,61,590	1,61,590			0			
ii	Pressure Gauge alongwith Coupling Device	1 No. of each type							1			1,61,590	1,61,590			0			
iii	Rubber Gaskets, 'O' Rings and Seals for SF_6 gas	1 No. of each type							1			1,61,590	1,61,590			0			
iv	Density Monitor for SF_6 Gas	1 No.							1			1,61,590	1,61,590			0			
v	All Types of Control Valves for SF_6 Gas	1 No. of each type							1			1,61,590	1,61,590			0			
vi	Molecular Filter for SF_6 Gas with 1 No. Bags	1 Set of each type							1			1,61,590	1,61,590			0			
vii	SF_6 Gas	25% of total weight							1			1,61,590	1,61,590			0			
viii	Enclosure, Isolators and Bus Bar to replace one section of each Phase of Bus Bar Compartment	1 No. of each type							1			1,61,590	1,61,590			0			
ix	Locking Device to keep the Disconnectors (Isolators) and Earthing Switches in CLOSE or OPEN Position in case of removal of the Driving Mechanism	1 Set							1			1,61,590	1,61,590			0			
x	Gas Evacuating and Refilling Device with storage capacity of a complete set of 220kV GIS Bay including Gas Enclosure of all Bus Bar and Associated Equipments	1 Set							1			1,61,590	1,61,590			0			

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Sr. No.	DESCRIPTION OF EQUIPMENT/MATERIAL	Qty./Unit	M/S Kanetsu Electricals Ltd. Neemrana (RJ)			M/S Elycon Indus Solutions Pvt. Ltd. New Delhi (DL)			M/S SAJAJ ELECTRICALS LTD. MUMBAI (MH)				M/S. Shiv Shri Ltd. Mumbai (MH)			M/S Toshiba T&D System (JP)		
			Qty	INSTALLATION AND CIVIL WORKS (Incl. T&D charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. T&D charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (Incl. T&D charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. T&D charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	3	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
vi	Gas Leakage Monitor	1 No.							1			1,41,750	1,41,750			0			
vii	Dew Point Meter and Portable PD Monitoring System for Gas Insulated Switchgear	1 No.							1			1,41,750	1,41,750			0			
2.2	132KV G.I.S EQUIPMENT												-			0			
i	SF$_6$ Gas Pressure Relief Device 3 Nos. of each type	1 No.							1			50,000	50,000			0			
ii	Pressure Gauge alongwith Coupling Device	1 No. of each type							1			50,000	50,000			0			
iii	Rubber Gaskets, 'O' Rings and Seals for SF$_6$ gas	1 Lot of each type							1			50,000	50,000			0			
iv	Air Types of Control Valves for SF$_6$ Gas	1 No. of each type							1			50,000	50,000			0			
v	Enclosure, insulators and Bus Bar to replace one section of each Phase of Bus Bar Compartment	1 No. of each type							1			50,000	50,000			0			
vi	Molecular Filter for SF$_6$ Gas with Filter Bags	1 No. of each type							1			50,000	50,000			0			
vii	SF6 gas	20% of total weight							1			50,000	50,000			0			
3	SPARES FOR CIRCUIT BREAKER												-			0			
3.1	220KV GIS CIRCUIT BREAKER												-			0			
i	Complete circuit breaker pole of each type and rating complete with interrupter, main circuit enclosure, interrupting box and operating mechanism	1 No.							1			19,551	19,551			0			
ii	Rubber gasket, 'O' rings and seals of SF6 gas of each type	1 Set							1			19,551	19,551			0			
iii	Trip Coils with resistor as applicable (3 Nos. of each type)	1 Set							1			19,551	19,551			0			
iv	Closing Coils with resistor as applicable (3 Nos. of each type)	1 Set							2			19,551	19,551			0			
v	Molecular Filter for SF6 Gas with Filter Bags	10% of total quantity							1			19,551	19,551			0			
vi	Density/pressure monitoring system (3 Nos. of each type)	1 Set							1			19,551	19,551			0			
vii	Relays, Power Contactors, push Buttons, timers & MCB etc. of each type and rating	1 Set							1			19,551	19,551			0			
viii	Closing assembly/ valve (3 nos. of each type)	1 Set							1			19,551	19,551			0			
ix	Trip assembly/ valve (3 nos. of each type)	1 Set							1			19,551	19,551			0			
x	Pressure Switches (3 nos. of each type)	1 Set							1			19,551	19,551			0			
xi	Auxiliary Switch Assembly (3 nos. of each type)	1 Set							1			19,551	19,551			0			
xii	Operation Counter	1 No.							1			19,551	19,551			0			
xiii	Rupture disc/ Diaphram (3 nos. of each type)	1 Set							1			19,551	19,551			0			
xiv	Windows/pc Observing window	1 Set							1			19,551	19,551			0			
xv	Spring operating mechanism, complete with all necessary connecting apparatus	1 Set							1			19,551	19,551			0			
xvi	Gauging device for pressure gauge cum switch for connecting gas handling plant (3 Nos. of each type)	1 Set							1			19,551	19,551			0			
3.2	132KV GIS CIRCUIT BREAKER												-			0			
i	Complete circuit breaker pole of each type and rating complete with interrupter, main circuit enclosure, interrupting box and operating mechanism	1 No.							1			10,904	10,904			0			
ii	Rubber gasket, 'O' rings and seals of SF6 gas of each type	1 Set							1			10,904	10,904			0			
iii	Trip Coils with Resistor as applicable (3 Nos. of each type)	1 Set							1			10,904	10,904			0			
iv	Closing Coils with resistor as applicable (3 Nos. of each type)	1 Set							1			10,904	10,904			0			
v	Molecular Filter for SF6 Gas with Filter Bags	10% of total quantity							1			10,000	10,000			0			
vi	Density/ pressure monitoring system (3 Nos. of each type)	1 Set							1			10,904	10,904			0			
vii	Relays, Power Contactors, push Buttons, timers & MCB etc. of each type and rating	1 Set							1			10,904	10,904			0			
viii	Closing assembly/ valve (3 nos. of each type)	1 Set							1			10,904	10,904			0			
ix	Trip assembly/ valve (3 nos. of each type)	1 Set							1			10,904	10,904			0			
x	Pressure Switches (3 nos. of each type)	1 Set							1			10,904	10,904			0			
xi	Auxiliary Switch Assembly (3 nos. of each type)	1 Set							1			10,904	10,904			0			
xii	Operation Counter	1 No.							1			10,904	10,904			0			
xiii	Rupture disc/ Diaphram (3 nos. of each type)	1 Set							1			10,904	10,904			0			
xiv	Windows/pc Observing window	1 Set							1			10,904	10,904			0			
xv	Spring operating mechanism, complete with all necessary connecting apparatus	1 Set							1			10,904	10,904			0			
xvi	Gauging device for pressure gauge cum switch for connecting gas handling plant (3 Nos. of each type)	1 Set							1			10,904	10,904			0			
4	SPARES FOR ISOLATOR AND EARTH SWITCH												-			0			
4.1	220KV ISOLATOR AND EARH SWITCH												-			0			
i	Complete set (3 Nos. of each (Make/1 Nos. of three phase assemblies) of main close/ earth/ close and/ or/ earth switch	1 Set							1			5,003	5,003			0			

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Sr. No	DESCRIPTION OF EQUIPMENT/MATERIAL	Qty Unit	M/S Hanwar Electricals Ltd. Meerut (U.P.)			M/S Shyam Indo Switchgear Pvt. Ltd. New Delhi (DE)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (DD)					M/S Bhel Bhel Ltd. Haridwar (UK)			M/S Tarabai T&D System (RK)		
			Qty	INSTALLATION AND CIVIL WORKS (Incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (Incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. F&I charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	3	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
a	Complete set of 3 Nos. of single phase/1 Nos. of three phase earthing switch viz main circuit enclosure and closing mechanism	1 Set							1			5,062	5,062			0			
b	Copper contact fingers for double outlet male and female contact for one complete (3 phase) disconnector of each type and rating	1 Set							1			1,062	1,062			0			
ba	Copper contact fingers for earthing switch male and female contact for one complete (3 phase) disconnector of each type and rating	1 Set							1			1,062	1,062			0			
c	Limit switches and auxiliary switches for complete three phase equipment												-			0			
	a) For isolator	3 Set							3			5,062	15,187			0			
	b) For earth switch	1 Set							1			5,062	5,062			0			
d	Male housing bearing assembly for complete three phase equipment												-			0			
	a) For isolator	2 Set							2			5,062	10,125			0			
	b) For earth switch	1 Set							1			5,062	5,062			0			
ea	Bearing for three phase equipment												-			0			
	a) For isolator	2 Set							3			5,062	15,187			0			
	b) For earth switch	1 Set							1			5,062	5,062			0			
ea	Interlocking coil with resistor, timers, key interlock for complete three phase	1 Set							1			5,062	5,062			0			
fa	Relays, Power Contactors, push Buttons, timers & MCB etc of each type and rating												-			0			
	a) For isolator	3 Set							3			5,062	15,187			0			
	b) For earth switch	1 Set							1			5,062	5,062			0			
g	Auxiliary Switch Assembly with NO + NC (3 nos. of each type)	1 Set							1			5,062	5,062			0			
4.2	132kV ISOLATOR AND EARH SWITCH												-			0			
i	Complete set of 3 Nos. of single phase/1 Nos. of three phase disconnector viz main circuit enclosure and closing mechanism	1 Set							1			2,493	2,493			0			
ii	Complete set of 3 Nos. of single phase/1 Nos. of three phase earthing switch viz main circuit enclosure and closing mechanism	1 Set							1			2,493	2,493			0			
iii	Copper contact fingers for disconnector male and female contact for one complete (3 phase) disconnector of each type and rating	1 Set							1			2,493	2,493			0			
iiia	Copper contact fingers for earthing switch male and female contact for one complete (3 phase) disconnector of each type and rating	1 Set							1			2,493	2,493			0			
iv	Limit switches and auxiliary switches for complete three phase equipment												-			0			
	a) For isolator	3 Set							3			2,493	7,480			0			
	b) For earth switch	1 Set							1			2,493	2,493			0			
iv	Male housing bearing assembly for complete three phase equipment												-			0			
	a) For isolator	3 Set							3			2,493	4,986			0			
	b) For earth switch	1 Set							1			2,493	2,493			0			
vi	Bearing for three phase equipment												-			0			
	a) For isolator	3 Set							3			2,493	7,480			0			
	b) For earth switch	1 Set							1			2,493	2,493			0			
vii	Interlocking coil with resistor, timers, key interlock for complete three phase	1 Set							1			2,493	2,493			0			
iia	Relays, Power Contactors, push Buttons, timers & MCB etc of each type and rating												-			0			
	a) For isolator	3 Set							3			2,493	7,480			0			
	b) For earth switch	1 Set							1			2,493	2,493			0			
x	Auxiliary Switch Assembly with NO + NC (3 nos. of each type)	1 Set							1			2,493	2,493			0			
5	SPARES FOR CURRENT TRANSFORMER												-			0			
i	220 KV, single phase current transformer ratio 2000-1000-500/1-1-1-1-1A complete with mounting hardware	2 Nos							2			1,45,663	2,91,325			0			
ii	220 KV, single phase current transformer ratio 800-400/1-1-1-1-1A complete with mounting hardware	2 Nos							2			1,45,663	2,91,325			0			
iia	220 KV, single phase current transformer ratio 1000-800/1-1-1-1-1A complete with mounting hardware	2 Nos							2			1,45,663	2,91,325			0			
iii	132 KV, single phase current transformer ratio1000-800-400/1-1-1-1-1A complete with mounting hardware	4 Nos							4			1,45,663	5,82,650			0			
iv	132 KV, single phase current transformer ratio1200-1000/1-1-1-1-1A complete with mounting hardware	3 Nos							3			1,45,663	4,37,325			0			
iv	132 KV, single phase current transformer ratio 2000-1200/1-1-1-1-1A complete with mounting hardware	3 Nos							1			1,45,663	1,45,663			0			
va	33 KV, single phase current transformer ratio 10-5/1-1A complete with mounting hardware	3 Nos							3			15,107	45,321			0			
6	SPARES FOR VOLTAGE TRANSFORMER AND CAPACITIVE VOLTAGE TRANSFORMER												-			0			
i	220 KV, single phase voltage transformer ratio220KV/√3/110/√3/110/√3 complete with mounting hardware	2 Nos							2			1,45,206	2,90,412			0			
ii	132 KV, single phase capacitive voltage transformer ratio 132KV/√3/110/√3/110/√3 complete with mounting hardware	2 Nos							2			1,45,206	2,90,412			0			
7	SPARES FOR SURGE ARRESTOR												-			0			

General Manager (C&D)
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Sr No	DESCRIPTION OF EQUIPMENT/MATERIAL	Qty (unit)	M/S Kanohar Electricals Ltd. Mandi (HP)			M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (DEL)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (MH)				M/S Man Shri Ltd. Mumbai (MH)			M/S Toshiba T&D System (HP)		
			Qty	INSTALLATION AND CIVIL WORKS (Incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (Incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. F&I charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	3	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
i	198kV Zinc Oxide Gapless Surge Arrestor with insulator and leakage meter	3 Nos.							3			4,828	13,476			0		
ii	17kV Zinc Oxide Gapless Surge Arrestor with counter and leakage meter	1 Nos.							1			3,585	3,585			0		
B	SPARES FOR DG SET															0		
i	Fuel Filters	2 Nos.							8			133	707			0		
ii	W. Oil Filters	2 Nos.							5			235	647			0		
iii	Fuel Pump complete	1 Set							1			662	662			0		
iv	Rotary diodes	6 Nos.							6			3,542	9,558			0		
v	Diode-P assembly	1 No.							1			1,432	1,432			0		
vi	Soft Starter assembly	1 No.							1			4,396	4,396			0		
vii	Main battery contactor	1 No.							2			330	658			0		
viii	MCB, Miniature relays, Voltmeter, Ammeter, Greaser switch etc. of each type and rating	1 Set							1			8,934	2,904			0		
ix	Dial type fuel gauge	1 Set							1			2,904	2,904			0		
x	Emergency push button	1 No.							1			2,904	2,904			0		
C	SPARES FOR 220VDC BATTERIES												-			0		
i	Spare battery set for 220V, 400AH battery with electrolyte	1 Lot							1			5,160	5,160			0		
ii	Vent Plugs	10 Nos.							10			11	110			0		
iii	Float Indicators	10 Nos.							10			344	3,334			0		
iv	Terminal connector with nuts & bolts	10 Nos.							10			34	344			0		
v	Spare battery set for 48V, 400AH battery with electrolyte	1 Nos.							1			1,438	1,438			0		
vi	Vent Plugs	10 Nos.							10			344	3,334			0		
vii	Float Indicators	10 Nos.							10			438	4,167			0		
viii	Terminal connectors with nuts & bolts	10 Nos.							10			34	344			0		
ix	Electrolyte	10 Litres							10+5			34	5,375			0		
x	Battery maintenance kit, towel, tools for two years	1 Set							1			11	11			0		
TG	SPARES FOR 220V/240VDC BATTERY CHARGER & DCDB												-			0		
i	Set of Control Cards (1 No. of each type)	1 Set							1			871	871			0		
ii	Set of relays (1 No. of each type)	1 Set							1			1,033	1,033			0		
iii	Set of contactor (1 No. of each type)	1 Set							1			403	403			0		
iv	Micro switches (1 No. of each type)	1 Set							1			876	884			0		
v	Filter Capacitors (1 No. of each type)	1 Set							1			134	134			0		
vi	Thyristor Diode (1 No. of each type)	1 Set							2			339	339			0		
vii	Set of switches (1 No. of each type)	1 Set							1			336	336			0		
viii	Set of wound resistors (1 No. of each type)	1 Set							1			8	8			0		
ix	Potentiometers (1 No. of each type)	1 Set							1			24	24			0		
x	Fuse of Thyristor with indicators (1 No. of each type)	1 Set							1			334	334			0		
xi	DC contactor coils (1 No. of each type)	1 Set							1			334	334			0		
xii	Blocking diodes of each type	1 Set							1			334	334			0		
xiii	AC contactor's coil of each type and rating	1 Set							1			334	334			0		
xiv	DP MCB (two nos. of each type and rating)	1 Set							3			403	403			0		
D	SPARES OF LT SWITCHGEAR												-			0		
i	Auxiliary Relays (1 No. of each type)	1 Set							1			1,503	1,503			0		
ii	CTs and PTs (1 No. of each type)	1 Set							1			1,502	1,502			0		
iii	Switches/Push buttons and Meters (1 No. of each type)	1 Set							1			1,502	1,502			0		
iv	MCCB (1 no. of each type and rating)								1			1,503	1,503			0		
v	TPN Switch/MCB/ CP (1 No. of each type and rating)	1 Set							1			1,503	1,503			0		
vi	Voltmeters	1 No.							1			1,503	1,503			0		
vii	Ammeter	1 No.							1			1,502	1,502			0		
viii	TNC switch for breaker	3 Nos.							2			1,502	3,004			0		
ix	Heater	2 Nos.							2			1,502	1,502			0		
x	OC & EF relay	1 No.							1			1,502	1,502			0		
xi	Flow Voltage coil	2 Nos.							2			1,502	3,004			0		
xii	Auxiliary contactors (1 No. of each type)	1 Set							1			1,502	1,502			0		
E	S.T. Breaker Spares												-			0		
	a) Spring charging motor (1 no. of each type)	1 Set							1			1,152	1,502			0		
	b) Aux. Contact sets (each form)	2 Set							2			1,502	3,004			0		
	c) Breaker Isolation contacts	3 Nos.							5			1,502	7,511			0		
	d) Arc Chutes	3 Set							1			1,502	1,502			0		
	e) Moving contacts (1 no. of each type)	3 Set							3			1,502	1,502			0		
	f) Arcing contacts (Fixed/Moving) (2 no. of each type)	1 Set							1			1,502	1,502			0		
	g) Springs (Closing/Opening) (1 No. of each type)	1 Set							1			1,502	1,502			0		
	h) Closing coil	3 Nos.							3			1,502	4,506			0		
	i) Tripping coil	3 Nos.							3			1,502	4,506			0		
	j) Aux. Finger contact (1 No. of each type)	1 Set							1			1,502	1,502			0		
	k) Limit switches (1 No. of each type)	1 Set							1			1,502	1,502			0		
	l) Jaw contacts (1 No. of each type)	1 Set							1			1,502	1,502			0		
	m) VCB/ VCB-N/ VCC Breaker	1 No.							1			1,502	1,502			0		
vi	Heater												-			0		

General Manager (C&D)
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Sr. No	DESCRIPTION OF EQUIPMENT/MATERIAL	Qty/Unit	M/S Kanwar Electricals Ltd. Meerut (UP)			M/S Urjaan Indus Solutions Pvt. Ltd. New Delhi (DL)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (MH)					M/S Bluestar Ltd. Mumbai (TN)			M/S Toshiba T&D System (GR)		
			Qty	INSTALLATION AND CIVIL WORKS (incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS (incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS (incl. F&I charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	3	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
	(i) Rubber insulators	3 Nos							3			1,503	4,511			0			
	(ii) Hardware Earlier	2 Nos							2			1,503	3,006			0			
	(iii) Busbar strip 5mm (Aluminium)	3 Mtrs							5			1,503	7,517			0			
12	SPARES FOR RELAY AND PROTECTION PANELS 220KV & 132KV												-			0			
12.1	220KV BREAKER RELAY PANEL SPARES												-			0			
i	Numerical Breaker Failure Relay	1 No							1			1,487	1,487			0			
ii	Trip Circuit Supervision Relay	2 Nos							2			1,487	2,974			0			
iii	Self Reset Trip Relay (1 No. of each type)	1 Set							1			1,487	1,487			0			
iv	Hand Reset Trip Relay (1 No. of each type)	1 Set							1			1,487	1,487			0			
v	Timer Relay (1 No. of each type)	1 Set							1			1,487	1,487			0			
vi	DC Supervision Relay	1 No							1			1,487	1,487			0			
vii	Auxiliary Relays (1 No. of each type)	1 Set							1			1,487	1,487			0			
viii	High Speed Tripping Relay	1 No							1			1,487	1,487			0			
ix	PLC based bay control	1 Nos											-			0			
12.2	132KV LINE PROTECTION PANEL SPARES												-			0			
i	Main - I Numerical Distance Relay with Software (excluding external Trip Relay)	1 Set							1			1,487	1,487			0			
ii	Main - II Numerical Current Differential Relay with Software (excluding external Trip Relay)	1 Set							1			1,487	1,487			0			
iii	Disturbance Recorder comprising of Acquisition Unit with Software	1 Set							1			1,487	1,487			0			
iv	27/59 Relay	1 No							1			1,487	1,487			0			
12.3	220KV TRANSFORMER PROTECTION PANEL SPARES												-			0			
i	Numerical Differential Relay with Software (excluding external Trip Relay)	1 No							1			1,487	1,487			0			
ii	Numerical Restricted earth Fault Relay with Software (excluding external Trip Relay)	1 No							1			1,487	1,487			0			
iii	Numerical Over Current Earth Fault Relay	1 No							1			1,487	1,487			0			
iv	Numerical Breaker Failure Relay	1 No							1			1,487	1,487			0			
v	Trip Circuit Supervision Relay	2 Nos							2			1,487	2,974			0			
vi	Self Reset Trip Relay (1 No. of each type)	1 Set							1			1,487	1,487			0			
vii	Hand Reset Trip Relay (1 No. of each type)	1 Set							1			1,487	1,487			0			
viii	Timer Relay (1 No. of each type)	1 Set							1			1,487	1,487			0			
ix	DC Supervision Relay	1 No							1			1,487	1,487			0			
x	Auxiliary Relays (1 No. of each type)	1 Set							1			1,487	1,487			0			
xi	High Speed Tripping Relay	1 No							1			1,487	1,487			0			
xii	PLC based bay control	1 Nos											-			0			
12.4	132KV BREAKER RELAY PANEL SPARES												-			0			
i	Numerical Breaker Failure Relay	1 No							1			1,487	1,487			0			
ii	Trip Circuit Supervision Relay	2 Nos							2			1,487	2,974			0			
iii	Self Reset Trip Relay (1 No. of each type)	1 Set							1			1,487	1,487			0			
iv	Hand Reset Trip Relay (1 No. of each type)	1 Set							1			1,487	1,487			0			
v	Timer Relay (1 No. of each type)	1 Set							1			1,487	1,487			0			
vi	DC Supervision Relay	1 No							1			1,487	1,487			0			
vii	Auxiliary Relays (1 No. of each type)	1 Set							1			1,487	1,487			0			
viii	High Speed Tripping Relay	1 No							1			1,487	1,487			0			
ix	PLC based bay control	1 Nos											-			0			
12.5	132KV TRANSFORMER PROTECTION PANEL SPARES												-			0			
i	Numerical Differential Relay with Software (excluding external Trip Relay)	1 No							1			1,487	1,487			0			
ii	Numerical Restricted Earth Fault Relay with Software (excluding external Trip Relay)	1 No							1			1,487	1,487			0			
iii	Numerical Over Current Earth Fault Relay	1 No							1			1,487	1,487			0			
iv	Numerical Breaker Failure Relay	1 No							1			1,487	1,487			0			
v	Trip Circuit Supervision Relay	2 Nos							2			1,487	2,974			0			
vi	Self Reset Trip Relay (1 No. of each type)	1 Set							1			1,487	1,487			0			
vii	Hand Reset Trip Relay (1 No. of each type)	1 Set							1			1,487	1,487			0			
viii	Timer Relay (1 No. of each type)	1 Set							1			1,487	1,487			0			
ix	DC Supervision Relay	1 No							1			1,487	1,487			0			
x	Auxiliary Relays (1 No. of each type)	1 Set							1			1,487	1,487			0			
xi	High Speed Tripping Relay	1 No											-			0			
12.6	COMMON SPARES												-			0			
i	Power Supply Modules for Bus Bar Protection (1 No. of each type)	3 Sets							3			1,487	4,461			0			
ii	Watchdog Relay (1 No. of each type)	1 Set							1			1,487	1,487			0			
iii	Test Plug CT and PT (1 No. of each type)	1 Set							1			1,487	1,487			0			
13	SPARES FOR SUB STATION AUTOMATION SYSTEM												-			0			
i	Bay Control Unit (1 No. of each type)	1 Set							1			1,487	1,487			0			
ii	Ethernet Switch (4 each type	1 Set							1			1,487	1,487			0			
iii	Networking Cable (CAT 6)	100 Mtrs							100			1,487	148,700			0			
iv	DC/DC Converter (1 No. of each type and rating)	1 Set							1			1,487	1,487			0			
v	Power supply unit (1 No. of each type and rating)	1 Set							1			1,487	1,487			0			
vi	Miniature Switching Relays (1 No. of each type and rating)	1 Set							1			1,487	1,487			0			
vii	PLC Relays (1 No. of each type and rating)	1 Set							1			1,487	1,487			0			
viii	Contact spring set (set for key matrix board etc)	1 Set							1			1,487	1,487			0			

General Manager (C&D)
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Sr. No.	DESCRIPTION OF EQUIPMENTS/MATERIAL	Qty/unit	M/S Kanohar Electricals Ltd. Manali (HP)			M/S Shyam Indus Solutions Pvt. Ltd. Nalagarh (HP)			M/S RAJA ELECTRICALS LTD. MUMBAI (MH)				M/S Blue Star Ltd. Mumbai (MH)			M/S Textile T&D System (RN)		
			Qty	INSTALLATION AND CIVIL WORKS (excl. T&D charges)		Qty	INSTALLATION AND CIVIL WORKS (excl. T&D charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (excl. T&D charges)		Qty	INSTALLATION AND CIVIL WORKS (excl. T&D charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	3	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
13	Isolators Switch	1 No.							1			1,487	1,487			0			
14	Hoist	2 Nos.							2			1,487	2,974			0			
15	Energy Frequency, MW, MVA, MVAR, current and transformer ratio plate for various alarm, C. No. of each type used.	1 set							1			1,487	1,487			0			
16	Master control relay	1 No.							1			1,487	1,487			0			
17	Copper jumping plate for one yard	1 Set							1			1,487	1,487			0			
18	SPARES FOR EOT CRANE												-			0			
18.1	Spares for 220KV & 132 kV GIS Hall Crane												-			0			
i	Pair of brake shoe with lining for each size of brake used viz. D.C. operated E.M or Hydraulic thruster operated	4 Sets							4			450	1,800			0			
ii	Pair of brake linings with rivets for each size of brake used	4 Sets							4			455	1,819			0			
iii	Main springs for each size of brake used	4 Nos.							4			455	1,819			0			
iv	Shunt coils for each size of brake used	4 Sets							4			455	1,819			0			
v	Thruster of each size used	2 Nos.							2			455	910			0			
vi	Pair of pin seals for each gear box used on crane	4 Sets							4			455	1,819			0			
vii	Contactors of each size used	4 Sets							4			455	1,819			0			
viii	Fixed & moving contacts of each contactor used	2 Sets							2			455	910			0			
ix	Trip Coils for each size of contactor used	2 Sets							2			456	910			0			
x	Overload relay for each motor	2 Nos.							2			455	910			0			
xi	Limits	6 Nos.							6			459	2,754			0			
xii	Pair. Spare links of each wires used on crane	4 Sets							4			459	1,836			0			
xiii	3 Phase circuit breaker of each size and type	1 Sets							1			459	459			0			
xiv	Complete set of lamps for lighting and signals	1 Sets							1			455	455			0			
xv	Carbon brushes & holdings for each slip ring motor	4 Sets							4			455	1,819			0			
xvi	Fuse links of each size used	4 Sets							4			455	1,819			0			
xvii	Resistance element of each size and type	1 Sets							1			455	455			0			
xviii	Communication Card/Cable	1 Sets							1			455	455			0			
xix	I/O Card	1 Sets							1			455	455			0			
xx	Processor	1 Sets							1			455	455			0			
xxi	Indicating lamps	1 Sets							1			455	455			0			
18.2	Spares for Transformer Building crane	as per list											-			0			
i	Pair of brake shoe with lining for each size of brake used viz. D.C. operated E.M or Hydraulic thruster operated	4 Sets							4			455	1,820			0			
ii	Pair of brake linings with rivets for each size of brake used	4 Sets							4			455	1,820			0			
iii	Main springs for each size of brake used	4 Sets							4			455	1,820			0			
iv	Shunt coils for each size of brake used	4 Sets							4			455	910			0			
v	Thruster of each size used	2 Nos.							2			455	910			0			
vi	Pair of pin seals for each gear box used on crane	4 Sets							4			455	1,820			0			
vii	Contactors of each size used	4 Sets							4			455	1,820			0			
viii	Fixed & moving contacts of each contactor used	2 Sets							2			455	910			0			
ix	Trip Coils for each size of contactor used	2 Sets							2			455	910			0			
x	Overload relay for each motor	2 Nos.							2			455	910			0			
xi	Limits	6 Nos.							6			455	2,734			0			
xii	3 Ph. Spare links of each size used on crane	4 Sets							4			455	1,819			0			
xiii	3 Phase circuit breaker of each size and type	1 Sets							1			455	455			0			
xiv	Complete set of lamps for lighting and signals	1 Sets							1			455	455			0			
xv	Carbon brushes & holdings for each slip ring motor	4 Sets							4			455	1,820			0			
xvi	Fuse links of each size used	4 Sets							4			455	1,820			0			
xvii	Resistance element of each size and type	1 Sets							1			455	455			0			
xviii	Communication Card/Cable	1 Sets							1			455	455			0			
xix	I/O Card	1 Sets							1			455	455			0			
xx	Processor	1 Sets							1			455	455			0			
xxi	Indicating lamps	1 Sets							1			455	455			0			
19	SPARES FOR FIRE DETECTION AND FIRE EXTINGUISHING SYSTEM												-			0			
i	Hard Nitrogen Cylinder	2 Nos.							2			10,465	20,930			0			
ii	Pipes with hooks	One No. of each Type							1			3,955	3,955			0			
iii	Heat Fusion Assembly	One no. of each Type							1			4,940	4,940			0			
iv	Fire Survival cable sufficient for one system	One No. of each Type							1			191	191			0			
v	Manuals	One No. of each Type							1			2,289	2,289			0			

General Manager (C&D)
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			M/S Kanohar Electricals Ltd Meerut (UP)			M/S Elgee Indus Solutions Pvt. Ltd. New Delhi (DL)			M/S BAJAJ ELECTRICALS LTD MUMBAI (MH)					M/S Shiv Shakti Ltd. Mumbai (MH)			M/S Trombay T&D System (MH)		
Sl No.	DESCRIPTION OF EQUIPMENT/MATERIAL	Qty Unit	Qty	INSTALLATION AND CIVIL WORKS (excl. VAT charges)		Qty	INSTALLATION AND CIVIL WORKS (incl. FAI charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (incl. FAI charges)		Qty	INSTALLATION AND CIVIL WORKS (incl. FAI charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	3	23	27	32	22	24	25	26	27	28	29	30	31	33	32	34	35	36
iii	3 Numbers for fire detector	Three No. of each Type							3			304	911			0			
iv	Fire Detectors	3 Nos. of each Type							3			1,438	1,938			0			
v	Thermostat	Two No. of each Type							2			395	865			0			
vi	Heating element	Two No. of each Type							2			1,277	1,277			0			
16	SPARES FOR 33 kV INDOOR PANEL												-			0			
i	Fuse set	3Nos							3			1,319	2,794			0			
ii	CT/PT	2Nos							2			1,377	2,754			0			
iii	Relays: Numerical IEEE, 2014 Make or complete pair	1Nos							1			13,046	13,046			0			
iv	Current Transformer with protection and metering core of Accuracy Class 0.2, 30 VA	1							3				-			0			
	33/0.11 kV	3 No.							3			5,813	17,439			0			
v	Voltage Transformer												-			0			
	33000/ √3 / 110/ √3 / 110 / 3 Volts, class 0.2, 30VA	3Nos							2			5,813	11,626			0			
vi	Auxiliary Voltage Non Directional Over current Earth Fault Relay 1	1Nos							1			2,599	2,599			0			
vii	Trip Bobbin Close Switch	1 No.							1			595	595			0			
viii	Contactors of each kind used	1 Set							1			995	995			0			
																0			
					0			0			0					0			0
2	CIVIL WORKS				0			0			0					0			0
1	Soil investigation of excavation/earth work area as per specifications	1 Set	1	6,43,000	643000	1	220000	220000	1	6,58,440	6,58,440			1	6,21,137	621137	1	3,90,000.00	390000
2	Cutting in Earth Work in all kinds of soil and disposal of excavated earth in all leads & lifts as per the direction of the Engineer in-charge	25000 Cu.M	25000	447	11175000	25000	359	8975000	25000	97	24,25,000			25000	447	11175000	25000	180.00	4500000
3	Excavation in Foundations in all kind of soil and rock , Provides etc. in Earth Work in all its stacking the excavated soil not more than 2 metres clear from the edge of the excavation and then returning the stacked soil in 15 cm layers when required in the Points sides of Foundations consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated earth within all leads and lifts as per the directions of Engineer -in charge.	12000 Cu.M	12000	384	4608000	12000	310	3720000	12000	185	22,44,000			12000	748	8976000	12000	960.00	11520000
4	Providing and Laying 1: 3: 6 (1 Cement : 3 Sand : 6 Graded Stone Aggregate 40 mm nominal size) and Curing complete excluding Cost of Form Work in Foundation and Plinth	400 Cu.M	400	8310	3324000	400	5000	2000000	400	6,723	28,86,216			400	8,525	3410000	400	5,900.00	2360000
5	Providing and Laying reinforced Concrete Cement M25 (Design Mix with Graded Stone Aggregate 20 mm nominal size) and Curing complete excluding Cost of Form Work and Reinforcement for Reinforced Cement Concrete Work including admixture/additives and as per directions of E.I.C				0		0	0			0				-	0			0
6	Foundation, Footings bases of columns and the like and mass concrete including fixing and grouting of bolts and embedments as per electrical requirement/sheet requirement	1260 Cu.M	1260	10440	13154400	1200	8000	9600000	1200	9,120	1,09,43,040			1200	9427	11312400	1200	8,500.00	10200000
7	Suspended floors Roofs Landings &Shelves After supports (Beams, Slabs, Lintels, Staircases, canopies and Roofs) level including fixing and grouting of bolts and embedments as per electrical requirement EOT crane beams etc	880 Cu.M	880	10067	8859400	800	9000	7200000	800	9,900	79,15,200			800	9427	7539600	800	8,240.00	6592000
8	Providing brick work with sand picca 2.15 mm thick weather inch angle iron in frame 30x30x3 mm, so as to give a fair finish including centering, shuttering, scrubbing & propping etc. with wooden battens & bullies in all heights and removal of the same for cross reinforced concrete & plain concrete work in Foundation, footings basis of columns etc. and mass concrete	16000 Sq.M	16000	447	7152000	16000	350	5600000	16000	446	71,42,240			16000	1562	25002000	16000	600.00	9600000
9	Providing & Laying Damp Proof Course 50 mm thick with Cement Concrete 1: 2: 4 (1 Cement: 2 Sand: 4 Stone Aggregate 12.5 mm nominal size) and Curing complete	50 Sq.M	50	835	41750	50	650	32500	50	944	47,200			50	1033	51650	50	469.00	23450
10	Providing and Laying Cement Concrete 1: 2: 4 (1 Cement: 2 Sand: 4 Stone Aggregate 20 mm nominal size) and Curing complete excluding Cost of Form Work in Foundation and Plinth	50 Cu.M	50	8993	449650	50	5200	260000	50	6,887	3,44,341			50	7853	392650	50	7,954.00	397700
11	Providing and Laying Cement Concrete 1: 3: 6 (1 Cement: 3 Sand: 6 graded Stone Aggregate 40 mm nominal size) and Curing complete excluding Cost of Centering and Shuttering in Foundations and Plinth	150 Cu.M	150	8774	131610	150	3000	450000	150	9,011	13,51,613			150	6,434	965025	150	3,403.00	510450
12	Supplying Mild / Tor Steel Reinforcement for R. C. C. Work including bending, binding and Placing in position complete for all heights	350 MT	350	79,700	27895150	350	77000	26950000	350	91,770	321,19,814			350	90,235	31582150	350	64,000.00	22400000
13	Brick Work using Common Burnt Clay Building Bricks in				0			0			0					0			0

General Manager (C&D)
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Sr. No.	DESCRIPTION OF EQUIPMENT/MATERIAL	Qty/unit	M/S Navdeep Electricals Ltd. Meerut (Rs)			M/S Bharat Heavy Electricals Pvt. Ltd. New Delhi (Rs)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (Rs)					M/S Shiv Shri Ltd. Mumbai (Rs)			M/S Yashika T&D System (Rs)		
			Qty	INSTALLATION AND CIVIL WORKS (Incl. T&I charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. T&I charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (Incl. T&I charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. T&I charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	3	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
8	Foundation and Plinth in Cement Mortar 1:4 (1 Cement : 4 Sand) First Class Bricks	120 Cu.M	100	9,053	9,05,300	100	9000	8,00,000	100	13,219	13,21,907			100	413	41,300	100	9,800.00	7,80,000
9	Super Structure above Plinth level upto all heights in Cement Mortar 1:4 (1 Cement: 4 Sand) First Class Bricks	400 Cu.M	400	9440	37,84,000	400	8000	32,00,000	400	15,337	62,31,719			400	531	21,200	400	8,850.00	32,00,000
10	Hollow Block Masonry in cement mortar (Hollow concrete blocks in C.M 1:6 (1 Cement: 6 Sand) up to all heights and as directed by E/C.	1200 Sq.M	1200	1010	1227600	1000	1000	2160000	1200	1,8,288	1,84,89,178			1200	1025	1230600	1200	960.00	1152000
12	15 mm cement plaster in single coat on rough / flat side of brick concrete, stone wall for exterior plastering upto all heights including arises, internal rounded angles, chamfers and/or rounded angles not exceeding 80 mm in girth & finished even & smooth. (in cement mortar 1 : 4 , 1 cement 4 sand)	2500 Sq.M	2500	340	850000	2500	450	1125000	2500	265	6,13,300			2500	315	787500	2500	240.00	600000
13	20mm cement plaster in two coats (8mm + 12mm) on rough / flat side of brick concrete, stone wall for exterior plastering upto all heights including arises, internal rounded angles, chamfers and/or rounded angles not exceeding 80 mm in girth & finished even & smooth. (in cement mortar 1 : 3 , 1 cement 3 sand for 8mm outer layer and 12mm base as 1:4 as above)	2500 Sq.M	2500	460	1150000	2500	450	1125000	2500	310	7,73,300			2500	423	1057500	2500	360.00	900000
15	6 mm cement plaster in coating of cement mortar 1:3 (1 cement:3 sand)	800 Sq.M	800	296	236800	800	450	360000	800	214	1,71,344			800	230	184000	800	295.00	236000
16	Supplying and Fixing Roofing Shutters of approved Make made of 80 mm x 1.25 mm M.S. Laths interlocked together through their entire length and jointed together at the end by End Locks complete on specially designed Pipe Shaft, with Brackets, Side Guides and arrangements for winding and cub locking with push pull operation complete but excluding the cost of the top cover and spring	68 Sq.M	68	7215	490620	68	4000	272000	68	4,307	2,92,615			68	5,909	401640	68	1,387.00	94350
16	Stone soling under floors as per directions of E/C	150 Cu.M	150	2547	382050	150	2400	360000	150	250	38,019			150	701	105150	150	2,240.00	336000
17	PCC Sand filling under floors as directions of E/C	58 Cu.M	58	1667	107850	58	2700	157800	53	177	9,524			53	1,847	94350	53	1,830.00	96900
18	50 mm thick cement concrete flooring with metallic granolithic hardener topping under layer of 35 mm thick cement concrete 1:2:4 (1 Cement : 2 Sand : 4 Graded Stone aggregate, 25 mm nominal size) and top layer of 15 mm thick metallic concrete hardener mix 1:2 (1 Cement hardener mix : 2 Stone aggregate 6 mm nominal size) by volume with metallic hardening compound of approved quality to mixed in the ratio 4:1 (4 parts of cement : 1 part of metallic floor hardening over poured approved quality by weight including finishing complete.	300 Sq.M	300	2537	761100	300	650	195000	300	720	2,19,931			300	1,207	362250	300	1665.00	499500
19	Providing and laying granite stone in flooring 20 mm (average) thickness base of cement mortar 1:3 (1 cement :3 Sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete. 20 mm thick.	10 Sq.M	10	3511	35110	10	3000	30000	10	4,427	44,271			10	1,259	12590	10	5,571.00	55710
20	Providing & Laying 20cm thick acid proof tiles of size 300x300mm of specified shade in floors ,made of clays and fencing laid on about 12 mm thick cement mortar 1:3 (1 cement :3 sand) joining with cement slurry mixed with pigment to match the shade of tiles	50 Sq.M	50	3671	183550	50	3600	180000	50	5,911	2,95,549			50	2,360	118050	50	3,360.00	168000
21	Kota stone slab flooring 20 mm average thick Laid of cement mortar 1:4 (1Cement :4 sand) Slab over and jointed with grey cement slurry mixed with pigment to match the shade of the slab floor including rubbing & polishing complete.	600 Sq.M	600	1974	1184400	600	2000	1200000	600	2,344	14,06,745			600	1,252	751200	600	1,660.00	996000
22	Providing and laying vitrified tiles 5 mm thick in flooring (600x600mm) size extruded in flooring and treads of steps laid on bed of 12 mm thick cement mortar 1:3 (3Cement :1 sand) finished with flush pointing in white cement	200 Sq.M	200	2357	471400	200	1600	320000	200	1,167	2,34,079			200	2,757	551400	200	900.00	180000
23	Providing and laying kajaria ceramic tiles 9.5 mm thick on walls laid on a bed of 12 mm thick cement mortar 1:3 (1 cement :3 sand) finished with flush pointing in white cement	10 Sq.M	10	2357	23570	10	1200	12000	10	137	1,374			10	3,146	31460	10	1,620.00	16200
24	Distempering two coats with oil bound washable distemper of approved brand & manufacture of required shade on unplastered wall surfaces to give an even shade over & including a priming coat with distemper primer of approved brand & manufacture after thoroughly brushing the surface free from mortar droppings and other foreign matter and also including preparing the surface even and hard papered smooth priming coat with distemper primer	3000 Sq.M	3000	384	1152000	3000	150	450000	3000	156	4,72,578			3000	256	768000	3000	1,140.00	3420000
25	Finishing Wall with Water Proofing Cement Paint of approved Brand and Manufacture and of required Shade on Decorated Wall Surfaces (Two coats) to give an even Shade after thoroughly brushing the surface to remove all Dirt, Loose or Softened Part.	1700 Sq.M	1700	160	272000	1700	150	255000	1700	124	2,34,972			1700	198	1336600	1700	300.00	510000
26	Applying priming coat over new sheet & other metal surfaces after thoroughly preparing the surface by thoroughly cleaning and grease dirt & other impurity matter & providing each with suitable zinc based anticorrosive & sand papering complete with ready mixed priming paint including red lead zinc chromate primer	100 Sq.M	100	325	32500	100	100	10000	100	12	1,211			100	152	15200	100	85.00	8500

General Manager (C&D)
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Sr. No.	DESCRIPTION OF COMPONENTS/MATERIAL	Qty. basis	M/S Kanmar Electronics Ltd. Meerut (UP)			M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (DEL)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (MH)					M/S. Bhai Shri Ltd. Meerut (UP)			M/S Toshiba T&D System (DEL)		
			Qty.	INSTALLATION AND CIVIL WORKS (Incl. P&F charges)		Qty.	INSTALLATION AND CIVIL WORKS (Incl. P&F charges)		Qty.	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty.	INSTALLATION AND CIVIL WORKS (Incl. P&F charges)		Qty.	INSTALLATION AND CIVIL WORKS (Incl. P&F charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	5	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
27	Painting two coats(excluding priming coat) on new steel & other metal surfaces with enamel paint to achieve to give an even shade inc preparing th surfaces of all rust, dust &other foreign matter with enamel paint &other then white.	160 SqM	160	495	82560	160	120	19200	160	339	54,240			160	737	118080	160	122.00	19520
28	(a) Providing under layer for plinth protection of 75 mm thick (precompacted) bed dry brick stone aggregate (b) 40mm nominal size well trimmed and rammed steel gauged with fine sand moulding preparation of gl sand	200 SqM	200	495	99000	200	500	100000	200	1,636	327,160			200	1,567	313480	200	305.00	61000
	(b) Providing plinth protection 50 mm thick in cement concrete 1:2:4 (1 cement 2 sand 4 graded stone aggregate of 20 mm nominal size)	200 SqM	200	495	99000	200	450	90000	200	2,567	513,428			200	1,833	366560	200	365.00	73000
29	Prov. & fixing anodized Aluminium doors, windows Ventilators and glazed partitions with coloured bullet as section stands to exterior and other sections of approved make conforming to IS:733 and IS:1285 anodized transparent or dyed to require minimum thickness according to IS:1868 (minimum Anodic coating of grade AC 15) fixed with Rawl plugs and screws or with fixing clips or with expansion bolts fasteners MS necessary filling up of gaps at junctions at top bottom and sides with required PVC neoprene Sub etc. Aluminium sections shall be smooth dust free, straight and jointed mechanically wherever required at metal angles aluminium snap beading for glazing overlying CP brass stainless steel screws in complete as per architectural drawing and directions of Engineer -in -charge				0			0			0					0			0
	(a) For door, windows and ventilators and glazed partition frames	2100 Kg	2100	495	1039500	2100	450	945000	2100	930	1,95,300			1900	371	704900	2000	440.00	1760000
	(b) For Shutters of doors, Windows and ventilators including providing and fixing wire gauze shutters as per requirement hinges handle and making provision of putty wherever required including the cost of PVC/ Neoprene Gaskets required fitting & Glazing / panning shall be paid for seperately)	1950 Kg	1950	495	965025	1000	450	450000	1200	672	4,72,800			1800	318	572400	1800	440.00	792000
30	Providing & fixing glazing in aluminium doors ,windows , ventilators shutters and partitions e.c. with PVC/ Neoprene gaskets etc complete as per the architectural drawings and the directions of Engineer -in -charge (Cost of Aluminium snap beading shall be paid in basic item) .				0			0			0					0			
40	Glazing with glass pane of 5.50 mm thickness [weight not less than 13.75 Kg/ Sqm.] Fixed in all glass fin floor AC Room	75 Sqm	75	3410	255825	75	3400	255000			0			75	4,778	358351	75	5400	405000
41	Glazing with glass pane of 6.50 mm thickness [weight not less than 13.75 Kg/ Sqm.] Double sashamed glass for AC Room	70 Sqm	70	3494	207865	70	3000	210000			0			70	7,964	557480	70	5400	378000
31	Particle board phenol bonded bakelite sheet grade m partitions 12 mm thick.	30 SqM	60	2537	137838	60	3250	195000	50	2,003	1,00,048			53	1,697	84760	50	1160	57500
32	Providing & fixing Double action hydraulic floor spring of approved brand & manufacture (conforming to IS:6315 for aluminium doors cost of cutting floor as required, embedding in floors & cover plates etc complete as per the direction of Engineer -in -charge.	10 Nos	10	7911	79110	10	4000	40000	10	656	6,557			10	3921	39210	10	4300	43000
33	Providing false ceiling as per IS specification in control room and as per directions of ESC	200 SqM	200	3835	767000	200	2500	500000	200	1,399	2,81,314			200	894	178800	200	870	174000
34	(a) Steel work welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of red lead paint	50 MT	50	89494	4474700	50	91000	4550000	50	73,135	36,56,746			50	1,02,235	5111750	50	85000	4250000
	(b) Steel work welded in built up sections in gratings, trench guard work, ladders, openings, brackets and similar works	20 MT	20	89494	1789940	20	94000	1880000	20	78,662	15,73,232			22	1,02,235	2245170	20	106000	2120000
35	Steel work in single sections, including cutting hoisting fixing in position and applying a priming coat of red lead paint, in MS Joists, channels angles, tees, flats, bulbed plates etc as per directions of ESC	5 MT	5	89494	447470	5	90000	450000	5	76,942	3,84,708			5	1,02,235	511175	5	108000	540000
36	Random rubble masonry(targirai rubble masonry (uncoursed/irregular to courses) with hard stone of approved quality in foundation and plain masonry in cement sand mortar 1:6 [1 cement : 6 sand] in superstructure including extra for hollow walls, flue walls, circular or curved walls, attached pilasters, buttresses, plinth and string courses, facework, corners, arches, extra thickness of beds and joints, steps, joining old masonry, fixing iron bars, anchoring with walls, making provision for openings, cutting toothing and bonding but excluding centering and scaffolding.				0			0			0					0			0
	(a) In foundations and plinth	150 Cu.M	152	6114	787100	150	5000	750000	150	4,594	6,89,078			750	4,404	3303000	150	4250	637500
	(b) In gravel walls and retaining walls	150 Cu.M	150	6114	1833300	150	5000	2250000	150	6,376	9,56,352			750	1,573	1179750	150	3424	2568132
37	Stone filling behind retaining walls as per direction of ESC	250 Cu.M	250	5114	1281000	250	3500	875000	250	3,623	10,87,848			250	1,337	1002750	250	2300	575000
38	P.C. Stone filling Kutcha work for the columns inside the floor police	40 Cu.M	40	6494	259840	40	3500	140000	40	2,623	1,04,909			40	1,337	53480	40	2300	92000
39	Excavation for road work in all kinds of soil such as pick work jumper work loosing work hard as well chiseling etc in all lifts and depths using manual means for carrying out earth as embankment and within all leads and lifts as per technical specification including entire carriage of material of all leads and lifts as per the direction to Engineer -in -charge	500 Cu.M	500	859	429500	500	500	250000	500	4,563	22,81,400			500	550	275000	500	1760	880000

General Manager (C&D)
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Sl. No.	DESCRIPTION OF EQUIPMENTS/MATERIAL	Qty./unit	M/S Kanchan Electricals Ltd. Meerut (UP)			M/S Shyam Indus Switchgear Pvt. Ltd. New Delhi (HP)			M/S RAJALI ELECTRICALS LTD. MUMBAI (MH)					M/S. Blue Star Ltd. Mumbai (MH)			M/S Trinity T&D System (JH)		
			Qty	INSTALLATION AND CIVIL WORKS (Incl. P&F charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. P&F charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (Incl. P&F charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. P&F charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	3	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
40	Proving laying & spreading and compacting 100mm thick Grade II stone aggregate (90mm to 45mm size by water bound macadam specification including spreading in uniform thickness hand packing rolling with smooth wheel roller 80-100KN in stages to proper grade and chamber and blooming stone screening/shifting material to fill up the interstices of coarse aggregate watering and compacting to the required density grading -3 as per technical specification by mechanical means including carriage of material in all leads and lifts as per the direction of Engineer - in Charge	250 CuM	250	1435	358750	250	3000	750000	250	2,600	6,99,946			250	950	95250	250	4100	1025000
41	Proving laying & spreading and compacting 75mm thick Graded stone aggregate 90 to 45mm size of water bound macadam specification including spreading in uniform thickness hand packing rolling with smooth wheel roller 80-100KN in stages to proper grade and chamber and blooming stone screening/shifting material to fill up the interstices of coarse aggregate watering and compacting to the required density grading -3 as per technical specification by mechanical means including carriage of material in all leads and lifts as per the direction of Engineer in charge	200 CuM	200	3825	765000	200	5000	1000000	200	2,412	4,90,446			200	975	195000	200	4100	820000
42	Proving laying & spreading and compacting 75mm thick Graded II stone aggregate 90 to 45 mm size of water bound macadam specification including spreading in uniform thickness hand packing rolling with smooth wheel roller 80-100KN in stages to proper grade and chamber and blooming stone screening/shifting material to fill up the interstice of coarse aggregate watering and compacting to the required density grading -3 as per technical specification by mechanical means including carriage of material in all leads and lifts as per the direction of Engineer in charge	200 CuM	200	3825	765000	200	5000	1000000	200	2,412	4,90,446			200	975	195000	200	4100	820000
43	Providing and applying tack coat with bitumen of VG-10 or S-90 or RS-1 emulsion using emulsion distributor at the rate of 0.25 to 0.30Kg per Sqm on the prepared granular surface cleaned with Hydraulic blower as per technical specification clause 503	1000	1000	814	814000	1000	1000	1000000	1000	2.55	2,55,670			1000	263	263000	1000	265	265000
44	Providing Laying and Rolling of open graded premix carpet of 20 mm thickness compacted of 13.2 mm to 5.6 mm aggregate still or using penetration grade bitumen at the rate of 1.45 Kg/sq.m to be required fine grade and sand as borne as wearing course on a previously prepared base by mixing in a suitable plant laying and rolling with a 8 tonnes SD-100 tandem vibratory roller capacity mounted on machine seek and grade to be followed by one coat of tyre-Rolling by manual means. bitumen VG -10 or S-90 viz. cost & carriage of material in all leads and lifts as per the instructions of Engineer in charge	1000	1000	979	979000	1000	1000	1000000	1000	1.64	1,99,310			1000	250	250000	1000	325	325000
45	Providing and laying seal Coat sealing the voids in a Bituminous surface laid to the specific levels grade and cross fall using type-B as per technical specifications clause 513 by manual Means Bitumen Vg 10 or S 90 using @ 0.68 Kg per Sqm. cross point be kept into centre per subsoil note (including errors carriage of materials in all leads and lifts as per the direction of Engineer - in charge	1000	1000	131	162500	1000	4000	4000000	1000	1.64	1,63,170			1000	250	250000	1000	360	360000
46	Providing Stone Masonry drain of 40 cm wide including 25 cm stone size laid in cement mortar 1:6 (1 cement: 6 sand) complete as HPPWD specification.	200	200	2819	563800	200	2500	500000	200	235	47,058			200	2,250	1,00,000	200	3463	692600
47	Excavation in earth work & backing in 20 cm. Layer including breaking clouds, boulders with Road Rollers to obtain the bearing capacity of soil at the required level including filling up ground depressions and to achieve the required gradients and prescribed levels as per site requirement within all leads and lifts as per the directions of Engineer in Charge	100 CuM	100	958	95800	100	300	30000	100	331	33,091			100	200	20000	100	880	88000
48	Stone boring grouting hand packed using interstices with spalls and consolidating with Power Road Roller to the required gradient and surface including Spreading, Watering and Rolling of Binding Material Moorum or Earth etc. as per directions of E/C	100 Cum	100	1278	127800	100	3000	300000	100	328	32,784			100	1,180	118000	100	1809	180900
49	P/L 25 mm thick Bitumen impregnated Fiber board for expansion joints as per directions E/C	50	50	1278	63900	50	4000	200000	50	93	9,324			50	1,180	59000	50	2650	132500
50	P/L Bitumen joint sealant & separation and distribution joints of Concrete roads as per directions of E/C	50	50	1278	63900	50	4000	200000	50	66	6,579			50	1,180	59000	50	3450	172500
	ANTIMICRO TREATMENT				0			0			0					0			0
51	Providing and Supplying all Labours, Machine, Equipments etc. Evaluation, Mixing / Injecting Chemicals to achieve the guaranteed effectiveness of Treatment at least upto Eight years. Boring, Grouting, Compacting the Treatment Earth within Sub Station Area excluding cement concrete as per directions of E/C	2000 Sqm	2000	126	252000	2000	1000	2000000	2000	43	1,87,359			2000	375	675000	2000	980	1960000
52	Providing and laying cement concrete 1:1.5:3 (1 cement: 3 sand: 6 graded stone aggregate 40 mm nominal size) and curing complete excluding cost of form work in foundation and plinth with the layer of cement slurry 1:5	225 CuM	225	4475	1006875	225	3500	787500	225	5,600	12,35,151			225	3912	880200	225	6450	1451250

General Manager (C&D)
HPPTCL, Shimla-5

2.A.62

Sr. No	DESCRIPTION OF EQUIPMENTS/MATERIAL	Qty unit	M/S Navratan Electricals Ltd. Meerut (UP)			M/S Elcom India Solutions Pvt. Ltd. New Delhi (DL)			M/S DAJIA ELECTRICALS LTD. MUMBAI (MH)					M/S Rue Star Ltd. Mumbai (MH)			M/S Yashika T&D System (PB)		
			Qty	INSTALLATION AND CIVIL WORKS (excl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS (incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (excl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS (incl. F&I charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	3	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
	SITE CLEARING				0			0			0			0		0			0
53	Providing, Supplying and Laying three layers of Bituminous Grade VG 30 Hot Mix (Grade I) Mix in the first layer after compaction shall make minimum 30 mm thickness course (layer of 20 mm nominal size, Consolidated / Compacted and Rolled as per Specification	3000 Sqft	3000	157	3341000	3000	600	3600000	4000	157	4,72,000			3000	234	1053000	3000	262	786000
	STORM DRAINAGE SYSTEM				0			0			0					0			0
54	Construction of storm water drainage scheme including roads culverts, drains & cattle trap/box make up etc. as per specifications				0			0			0					0			0
	(a) Providing Water Drainage System with a Section of 200 mm wide x 150 mm deep at a Start Point with a smooth grade of 1 :500. All Concrete in nominal mix. Mixer shall be of M - 25 Grade.	300 Rmt	300	11804	3621800	300	3000	900000	300	5,901	17,70,300			300	784	235200	300	1100	345000
	(b) Providing Water Drainage System with a Section of 400 mm wide x 300 mm deep at a Start Point with a smooth grade of 1 :500. All Concrete in nominal mix. Mixer shall be of M - 25 Grade.	200 Rmt	200	16238	3246800	200	3648	729600	200	7,285	14,56,920			200	870	174200	200	3439	884498
55	Constructing coarse rubble hammer dressed in shape open surface rough with sole wall 15x22 cm. in cement mortar 1:5 (1 cement : 5 Sand) & inside plastering with cement mortar 1:3 (1cement 3sand) including earth work laying 10 cm cement concrete in 1:3:6 (1cement 3 sand 6 graded stone aggregate of 40 mm nominal size) and 7.5 cm cement concrete 1:2:4 (1 cement 2 Sand 4 graded stone aggregate of 20mm nominal size) and finished with a floating coat of neat cement complete as per standard design.	300 Rft	300	6350	1210800	300	2000	540000	300	4,256	8,30,376			300	910	200000	300	2200	660000
56	Providing laying (in level or slopes) and jointing machined cast cable heavy duty non - pressure pipes IS class NP 3 of the following internal diameter with flush joints including testing of joints complete.				0			0			0					0			0
i)	310mm	100	100	2007	201700	100	3000	300000	100	2114	211400			100	1,214	121400	100	1800	180000
ii)	320mm	100	100	2830	282900	100	4000	400000	100	972	97,170			100	1,919	191900	100	2400	240000
iii)	450mm	45	45	5114	230130	45	500	22500	45	1,719	77,355			45	2,219	99855	45	3000	135000
57	Providing laying (in level or slopes) and jointing machined concrete heavy duty non - pressure pipes IS class NP 3 of the following internal diameter with flush joints including testing of joints complete.				0			0			0					0			0
i)	410mm	50 RM	50	5134	256700	50	6000	300000	50	3,747	1,87,329			50	3,751	187550	50	3700	185000
ii)	560mm	45 RM	45	6283	282735	45	7000	315000	45	6,439	2,89,667			45	6,446	289935	45	8700	391500
iii)	660 mm	10 RM	10	7031	70310	10	9000	90000	10	8,713	87,130			10	8,051	80510	10	9000	90000
58	Providing and Fixing of following Gates with Support Structures (including all Labour, Material and Transportation) complete as per Specification				0			0			0					0			0
	(a) 6.0 m wide and 2 m high, 3 Panel Gate alongwith side 1.20 m wide Wicket Gate	2 Nos	2	319020	638040	2	450000	900000	2	54,416	1,08,832			2	157,284	314568	2	450000	900000
59	Supplying and Fixing Galvanized Steel Barbed Wire (IS: 278 – 1982 Type – I) weighing 8.36 kg per 100 metres (minimum), Straining and Fixing to any type of Standard Posts, Straining Posts including backstaying with and provision of Galvanized Mild Steel Wire, staples or steel pins etc. as directed. (Price and stock of wood complete, steel etc and straining posts shall be paid for separately.	1600 Rmt	1600	120	192480	1600	2500	4000000	1600	83	99,994			1600	1,250	2000000	1600	1.70	272000
60	R/F Chain link fencing 2.40m height complete in all respects including providing link as per standard of EIC	250 Rmt	250	5733	1433250	250	5000	1250000	250	11,133	28,32,500			250	3,516	884529	250	5160	1290000
61	Providing water supply and sanitary fitting including binding and allied accessories for W.C (European/ Indian)/Urinal Pots,Cistern, Wash Basin, Sink, GI pipes of required size, CI Pipe 100mm dia, CI Pipe 75mm dia, Collars,rockets bends,towel rails, PVC water tank 2000Ltr Capacity (Sintex Make), CP Gate cocks, CP stop cocks, Looking mirror, Pillar cock, soap dispenser, floor traps , P traps , CP waste and waste pipes ,septic tank and soak pit from 1 No. at suitable distances as per IS Specifications ,main hole bricks adding any other items required to put in use the system, then testing and commissioning the system complete in all respects(As per relevant IS Codes and specifications) and as per directions of EIC	1 Job	1	1901721	1901721	1	500000	500000	1	4,67,500	4,67,500			1	8,79,157	879157	1	500000	500000
62	Providing Bore Hole 150 mm Dia with 90 mm delivery pipes having 3 LPS capacity submersible Pump of approved manufacturer Two points at Sub Station site as per approved Drawing and one Point adjacent to Sub Station building for connecting overhead tank, with pipe of suitable size shall be provided .Bore Hole depth shall be sufficient below river down curve 20 mtrs. Minimum six hours water requirement. Float min. 10 mtrs long each by lighting flexible reinforced pipe 50 mm dia along with stapling and two nos. injector suitable for connecting with 50 mm dia Fire Fighting Pipe shall be provided. The above arrangement should be houses in 3x3 sq mtr pump house	1 Job	1	1901721	1901721	1	650000	650000	1	6,52,194	6,52,194			1	2,11,962	211962	1	270000	270000
63	Supplying and erection of Dewatering Pumps of IS/I approved brand i.e Kirloskar, Mowilly as equivalent and as per directions of E/C				0			0			0					0			0
	Qty 5 HP	1 No	1	51868	51868	1	20000	20000	1	7,212	7,212			1	47,165	47165	1	4675	4675
	Qty 2.25 HP	1 No	1	52824	52824	1	4500	4500	1	13,134	13,134			1	32,719	32719	1	11500	11500

General Manager (C&D)
HPPTCL, Shimla-5

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Sr. No.	DESCRIPTION OF ITEM/PER BID MATERIAL	Qty./unit	M/S Kanwar Electricals Ltd. Meerut (UP)			M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (HR)			M/S RAJKUMAR ELECTRICALS LTD. MUMBAI (MH)					M/S Blue Star Ltd. Mumbai (MH)			M/S Tashika T&D System (HR)		
			Qty	INSTALLATION AND CIVIL WORKS (Incl. P&F charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. P&F charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (Incl. P&F charges)		Qty	INSTALLATION AND CIVIL WORKS (Incl. P&F charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
1	2	3	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
	DI, 3.00 mm	1 No.	1	39090	39090	1	87000	87000	1	34,791	34,791			1	39,371	39371	1	78750	78750
	GI 6.00 mm	3 Nos	3	190770	142564	2	90000	180000	3	43,364	43,827			2	1,17,942	235885	2	47000	94000
54	Providing and fixing 6m wall Back G.I. Rain water pipes including fitting their joints with spun pipe and cement mortar 1:2 (1 cement : 2 sand) 100 mm dia	200 RM	200	2196	439200	200	1500	300000	200	1,313	2,62,512			200	2,259	451800	200	480	96000
55	Providing corrugated G.I. Sheet roofing fixed with galvanized iron J or L hooks bolts and nuts 8 mm complete with bitumen and G.I. Lintpal washers fitted with white lead complete including the cost of purlins rafters and trusses 0.63 mm thick sheet.	1500 Sqft	1500	187	1130500	1500	1000	1500000	1500	533	8,34,396			1500	2703	4053000	1500	800	1200000
56	Providing ridges to tops 60 cm. Over all in plain with galvanised iron G.I. Sheet fixed on J or L hooks bolts and nuts 8 mm dia G.I. washers and bitumen washers complete 0.63 mm thick sheet.	200 RM	200	1921	384400	200	1400	280000	200	903	1,80,214			200	2,822	564400	200	1420	284000
57	Providing and fixing 75 cm. Wide 45 cm. Overall semi-circular plain G.I. Sheet gutter with iron brackets 40x5 mm size bolts and nuts and washers with including making necessary corrections and iron water pipe complete as per design. 0.63 mm thick sheet.	200 RM	200	1800	360900	200	1600	320000	200	997	1,99,335			200	2,822	564400	200	1875	375000
58	Applying materials solution on new G.I. sheet for preparation of surface for painting @ 3 Hours/ 100 sqm of surface and rubbing the solution with brush including thoroughly cleaning the surface of all oil grease dirt and other foreign matter.	1500 Sqft	1500	130	195000	1500	1000	1500000	1500	197	2,82,950			1500	157	235500	1500	75	112500
59	Painting two or more coats on G.I. sheets with readymix paint of approved brand and manufacture on new work to give an even shade with readymixed paint	1500 Sqft	1500	264	394600	1500	120	180000	1500	139	2,09,581			1500	119	177000	1500	80	120000
60	External water supply from hose well to fire water tank and service room building				0			0			0				-	0			0
	(a) 40mm dia Medium Grade as per IS 1239	200 RM	200	1567	313400	200	1500	300000	200	963	1,92,600			200	1,494	298800	200	990	198000
	(b) 25mm Medium Grade as per IS 1239	200 RM	200	1218	243600	200	1000	200000	200	1,188	2,37,594			200	1,181	236200	200	800	160000
61	External sewerage system including all items such as gully traps, gal chambers, pents, man hole covers, air vent pipes, seats for septic tank and soak pits etc. and testing and commissioning complete in all respects excluding soak pit and septic tank as per schedule of B.Q.	1 Job	1	639240	639240	1	700000	700000	1	2,62,270	2,62,270			1	18,642	18642	1	200000	200000
62	P.E. Cockers including all pipe fittings and jointing in required grades for external sewerage system				0			0			0				-	0			0
	(a) 150 mm	200 RM	200	2662	532400	200	1800	360000	200	2,160	4,32,000			200	2,574	514800	200	900	180000
	(b) 100 mm	50 RM	50	1818	90900	50	1000	50000	50	1,539	76,902			50	2,359	117950	50	765	37525
63	PA PVC pipe SCI mm dia complete in all respects as directed by EIC	20 RM	20	1219	25840	20	1500	30000	20	1,111	1,66,229			20	1,573	31400	20	900	18000
64	P.I. 100 mm dia P.V.C pipes as per directions of EIC in deep holes of washing/bowl sets etc.	400 RM	400	1258	503600	400	1000	400000	400	1,313	5,27,366			400	472	188800	400	350	140000
65	Providing and laying at or near ground level Gutters made form stone of M-25 grade concrete concrete in position to the required line, level and camber is served with cement mortar 1:3 (1 cement : 3 coarse sand), including making cents with or without grooves (Excavation of gutters except at sharp curve shall not exceed than 5 mm), including making drainage opening wherever req. incl complete etc. as per direction of Engineer in charge (length of finished beds edging shall be measured for payment) (Please D.C. Work stone shall be approved by Engineer in charge)	500 Mts	500	1078	539000	500	800	400000	500	1,173	2,86,500			500	1,192	596000	500	480	240000
66	Providing and laying 50 mm to 65 ballary made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction, of approved size design & shape laid in required colour and pattern over and including 50 mm compacted bed of coarse sand, filling joint with fine sand etc. all complete as per the direction of Engineer-in-charge	1000 Sqft	1000	1021	1021000	1000	1500	1500000	1000	2,057	19,81,719			1000	1,132	1132000	1000	1520	1520000
67	White washing with lime on internal/external wall surfaces two coats to give even shade including thoroughly brushing the surface to remove all dirt dust mortar dirt and other foreign matter	1000 SqM	1000	268	268000	1000	90	90000	1000	33	33,000			1000	75	75000	1000	80	80000
68	PCC M20	50 CUM	50	7975	398800	50	8000	400000	50	7,972	3,93,438			50	7,968	398400	50	7500	375000
69	ANY OTHER ITEM WHICH IN THE OPINION OF THE BIDDER IS ESSENTIAL AND HE MAY LIKE TO QUOTE				0			0			0				-	0			0
	PVL extra heavy water proofing treatment on the top slabs including grouting with slurry, laying cement concrete using broken brick/flats water proofing compound cost/mixing to IS 2645 Hot bitumen, Pea size gravel, fine screening as per technical specifications and as per directions of EIC	8475 Sqft	4719	3617860	4719	3000	14157000	4719	5,264	8,24,344			4719	1,252	5907588	4719	2350	11089650
a	Providing & laying 18 mm thick 1100mm wide cast marble board pathed 10 mm rounded with top cover all 4mm size marble boards with 25mm diameter sunken holes and channels including fixing 25x3 mm M.S. flat at 10 cm. Long and plugs etc. with complete in all respects and as per directions of EIC	100 Rm	100	1176	117600	100	2200	220000	100	914	91,780			100	2,388	238800	100	3000	300000
b	Providing fixing and jointing 200 mm wide and 10 mm thick PVC water stop size consisting to IS/ technical specifications and as per directions of EIC	200 Rm	200	1218	243602	200	2500	500000	200	658	1,31,726			200	1,072	214400	200	600	120000

General Manager (C&D)
HPPTCL, Shimla-5

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Sr. No.	DESCRIPTION OF EQUIPMENT/MATERIAL	Qty / Unit	M/S Kanohar Electricals Ltd. Meerut (UP)			M/S Shyam Indus Switchgear Pvt. Ltd. New Delhi (DL)			M/S GAJA / ELECTRICALS LTD. MUMBAI (MH)					M/S Blue Star Ltd. Mumbai (MH)			M/S Toshiba T&D System (SG)		
			Qty	INSTALLATION AND CIVIL WORKS (Incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS (incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS		FREIGHT AND INSURANCE		Qty	INSTALLATION AND CIVIL WORKS (incl. F&I charges)		Qty	INSTALLATION AND CIVIL WORKS (incl. F&I charges)	
				Unit Rate	Total		Unit Rate	Total		Unit Rate	Total Price	Unit Rate	Total Price		Unit Rate	Total		Unit Rate	Total
i	ii	iii	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
iv	Wire crimps of G.I. Wire lined with tubulare with square cut mesh against Old back Gabion to be measured and paid for separately	470 CUM	470	3825	1803450	470	9000	2130000	470	9,672	12,38,731			470	1,897	891590	470	4000	1880000
v	G.I. Wire 4mm thick corrosponding to SWG 8 10cm x 10cm mesh	1875 Sqm	1875	888	1665150	1870	600	1122000	1875	787	14,75,000			1870	315	588525	1875	300	562500
vi	Providing and fixing Under Deck insulation conforming to IS/Technical Specifications complete in all respect as per Directions of EIC	125 Sqm	125	1378	169750	125	1505	181500	125	2,450	3,51,440			125	1,040	121000	125	700	87500
vii	Anti Termite (chemical treatment) as per IS:6313 and other relevant Indian standards/Technical specifications and as per directions of EIC	1 Job	1	447458	447458	1	150000	150000	1	85,40,671	30,40,671			1	2,30,525	230525	1	1020000	1020000
viii	Providing fitting glazing in aluminium doors, windows, ventilators shutters and partitions etc. with PVC/ Neoprene gaskets etc. complete as per the architectural drawings and the directions of Engineer- In- charge (Cost of Aluminium snap beading shall be paid in basic item). Glazing with glass pane of 5.50 mm thickness (weight not less than 13.75 Kg / Sqm.)				0			0	145	3,729	5,41,049					0			0
	service tax will if included							1655347.75											
	TOTAL COST				19033497.40			17988340.75			17,29,23,139		6,49,10,233			1889347			18877359
	Difference in Total (Lot to Non consideration of Decimal				-1.00			0			0								
	G.Total				19,09,35,993.40			18,98,83,448.75			23,78,63,986.75					18,89,31,467.05			18,87,19,334.00

	Amount	amount without tax (14% & 5.5 %)		taxes	total without taxes
Installation	4,45,31,542	39,15,010.52	installation	18883340.75	12,151,020
Civil Works	14,53,41,161	17958327.84	civil works		12334,4520
	19,09,35,993	17788810.47			14052,9540

	Total	error	total with error
installation	3,17,55,540.00	3,03,030	3,20,52,909.72
civil	13,96,87,237.05	0	13,96,87,237.05

	Total	total with error
installation	2,14,59,604.05	2,15,59,443
civil	16,74,48,303.00	16,74,48,303
	18,89,31,467.05	

	total with taxes
installation	94851567
civil works	12530670
	18877359

Dy. General Manager (Contracts)
H.P. Power Transmission Corpn. Ltd
Barowalia House Khalini Shimla-2

General Manager (C&D)
HPPTCL, Shimla-5

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				SCHEDULE-5a												Table-6b
				TENDER DOCUMENT No.: 17 - SS / ADB / HPPTCL / 220 KV GIS CHAROR												
				BILL OF MATERIAL REQUIRED FOR 132/220 kV GIS SUB-STATION AT CHAROR												
				TRAINING CHARGES TO BE IMPARTED ABROAD												
				COMPARATIVE STATEMENT												
				M/S Kanohar Electricals Ltd. Meerut (B5)			M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (B6)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (B1)			M/S Blue Star Ltd. Mumbai (B8)			M/S Toshiba T&D System (India) Pvt. Ltd. Telangana
Sr. No	Description	NUMBER OF TRAINEES	TRAINING DURATION IN WORKING MAN DAYS	NUMBER OF TRAINEES	TRAINING DURATION IN WORKING MAN DAYS	TRAINING CHARGES (USD) Training in China	NUMBER OF TRAINEES	TRAINING DURATION IN WORKING MAN DAYS	TRAINING CHARGES (USD) Training in China	NUMBER OF TRAINEES	TRAINING DURATION IN WORKING MAN DAYS	TRAINING CHARGES (USD) Training in China	NUMBER OF TRAINEES	TRAINING DURATION IN WORKING MAN DAYS	TRAINING CHARGES (USD) Training in Korea	
1	2	3	4	14	15	16	17	18	19	20	21	22	23	24	25	
1	Training on Design, Operation and Maintenance of the GIS installation including Procedures for Fault attending at Manufacturers/ Suppliers Works-220 kV GIS			2	5	incl	2	5	21000	2	5	10,353	6	60	10571.5	Not Applicable
2	Design, Operation, Maintenance and Commissioning aspects at Manufacturer's/ Supplier's Works as per following :-															
a)	Circuit Breaker (Controlled Switching)			5	3	incl	5	5	20000	5	3	10,000	6	60	10571.5	
b)	Protection and Automation															
c)	PLCC															
	TOTAL FOR TRAINING CHARGES TO BE					0			41000			20,353			21143	0

Dy. Manager (Contracts)
HPPTCL, Barowalia House
Khalini, Shimla-2

Dy. General Manager (Contracts)
H.P. Power Transmission Corpn. Ltd
Barowalia House, Khalini, Shimla-2

General Manager (C&D)
HPPTCL, Shimla-5

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Schedule-5b | Table-7b

TENDER DOCUMENT No. 17 - SS / ADB / HPPTCL / 220 KV GIS CHAROR

BILL OF MATERIAL REQUIRED FOR 132/220 kV GIS SUB-STATION AT CHAROR

CHARGES FOR TRAINING TO BE IMPARTED IN INDIA

COMPARATIVE STATEMENT

				M/S Kanohar Electricals Ltd. Meerut (B5)			M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (B6)			M/S BAJAJ ELECTRICALS LTD. MUMBAI (B1)			M/S Blue Star Ltd. Mumbai (B4)			M/S Toshiba T&D System (India) Pvt. Ltd. Medak, Telangana (B2)		
Sr. No	Description	NUMBERS OF TRAINEES	TRAINING DURATION IN WORKING MAN DAYS	NUMBERS OF TRAINEES	TRAINING DURATION IN WORKING MAN DAYS	TRAINING CHARGES (INR)	NUMBERS OF TRAINEES	TRAINING DURATION IN WORKING MAN DAYS	TRAINING CHARGES (INR)	NUMBERS OF TRAINEES	TRAINING DURATION IN WORKING MAN DAYS	TRAINING CHARGES (INR)	NUMBERS OF TRAINEES	TRAINING DURATION IN WORKING MAN DAYS	TRAINING CHARGES (INR)	NUMBERS OF TRAINEES	TRAINING DURATION IN WORKING MAN DAYS	TRAINING CHARGES (INR)
1	2	3	4	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	Training on Design, Operation and Maintenance of the GIS Installation including Procedures for Fault attending at Manufacturer's/ Suppliers Works															2	5	22,00,000
2	Design, Operation, Maintenance and Commissioning aspects at Manufacturer's /Supplier's Works as per following :-																	
a)	Circuit Breaker (Controlled Switching)						5	3	1,50,000							5	3	Included
b)	Protection and Automation			5	3	Incl.	5	3	1,50,000	5	3	8,21,170	5	3	2,09,000	5	3	12,50,000
c)	PLCC			5	2	Incl	5	2	1,50,000	5	2	4,14,114	5	2	1,76,000	5	2	5,00,000
3	Training on Design, Operation and Maintenance of the GIS Installation at Charor Sub-Station			5	5	Incl.	5	5	5,00,000	5	5	10,35,284	5	5		5	5	
	service taxes								1,33,000									
	TOTAL FOR TRAINING CHARGES TO BE IMPARTED IN INDIA					0			10,83,000			20,70,568			3,85,000			40,50,000
	Inclusive taxes if any								14%			14%			14%			
	total without taxes								9500000			1816258			337719			

Dy. Manager (Contracts)
HPPTCL, Barowalia House
Khalini, Shimla-2

Dy. General Manager (Contracts)
H.P. Power Transmission Corpn. Ltd
Barowalia House, Khalini, Shimla-2

General Manager (C&D)
HPPTCL, Shimla-5

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Table-8

TENDER DOCUMENT No.: 17 - SS / ADB / HPPTCL / 220 KV GIS CHAROR

BILL OF MATERIAL REQUIRED FOR 132/220 kV GIS SUB-STATION AT CHAROR

CORRECTION OF ARITHMETIC ERRORS

Name of Bidder	Particulars	Bidders Price at opening		Corrections		Corrected bid Price		Remarks
		USD	INR	USD	INR	USD	INR	
1	2	3	4	5	6	7	8	9
M/S Kanohar Electricals Ltd. Meerut (B5)	schedule-2 mandatory Spares item no. 14.2 Spares for Transformer Building crane		165606		0		-165606	items deleted via amendment in BOM but considered by Firm
	Schedule-4 Price of items with /without taxes		19 09 35 803		177699310.47		-13238492.93	service taxes included in Prices
	Total						-13402098.93	
M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (B6)	Schedule-1 item 29(ii) 220KV GIS BUS duct with One Number Horizontal and One Number Vertical bend	0		0		0	0	items amended in BOM but not considered by Firm hence bidder will provide these items free of cost
	Schedule-1 item 29(iii)132KV GIS BUS duct with One Number Horizontal and One Number Vertical bend	0		0		0	0	Do
	Schedule-4 item Z(ii) 220KV GIS BUS duct with One Number Horizontal and One Number Vertical bend		0		0	0	0	Do
	Schedule 4 item Z(iii)132KV GIS BUS duct with One Number Horizontal and One Number Vertical bend		0		0	0	0	Do
	Schedule-4 Price of items with /without taxes		159683440.8		140529850		-19353590.8	taxes included in schedule-4
	Schedule-5b training Charges without taxes/with taxes		1083000		950000		-133000	taxes included in training charges
	Total					0	-19486590.8	
M/S BAJAJ ELECTRICALS LTD. MUMBAI (B1)	Schedule-1 Price of items with /without taxes	4405147		42.18 771		-84375.42		2% CST included in Price
	Schedule-2 Price of items with /without taxes		290108409.45		2844181107.31		-5688362.146	2% CST included in Price
	Schedule-5b Price of items with /without taxes		2070568.00		1816287.72		-254280.28	service tax included in Price
	Schedule-2 error in total of schedule-2		287281135.00		288357046.45		1075908.45	error in total
	schedule-2 item 8.1 Partial Discharge Monitoring System (UHF type)		0		40.55 001.00	0	4055001	rate quoted but quantity taken as NIL
	schedule 2 item 22 A) EOT crane for 220/ 132KV Transformer 150/30 MT with permanent fixed ladder from ground to EOT crane. (Deleted)		1971181		0	0	1971181	items deleted via amendment in BOM but considered by Firm
	schedul-2 mandatory Spares item no. 14.2 Spares for Transformer Building crane		334397		0	0	334397	items deleted via amendment in BOM but considered by Firm
	schedule-4 item1 A (iii) Micro Gas Analyzer/On-Line DGA/PPM meter		78,681		59.011	0	-19670	items amended in BOM but not considered by Firm
	schedule 4 item V A) EOT crane for 220/ 132KV Transformer 150/30 MT with permanent fixed ladder from ground to EOT crane. (Deleted)		1.83.590		0	0	-183590.37	items deleted via amendment in BOM but considered by Firm
	do (F&I)		1.54.216		0	0	-154215.9139	-do-
	schedul-4 mandatory Spares F&I Charges item no. 14.2 Spares for Transformer Building crane		26162		0	0	26162	items deleted via amendment in BOM but considered by Firm
	Total					-84375.42	-3500949.261	
	Schedule-1 item 29(i) 220KV GIS BUS duct with One Number Horizontal and One Number Vertical bend	0		45000		45000	0	items amended in BOM, rate quoted quantity not considered by Firm
	Schedule-1 item 29(iii)132KV GIS BUS duct with One Number Horizontal and One Number Vertical bend	0		94200		94200	0	Do

Arithmetic Error 1 of 2

General Manager (C&D)
HPPTCL, Shimla-5

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Table-8

TENDER DOCUMENT No.: 17 - SS / ADS / HPPTCL / 220 KV GIS CHAROR

BILL OF MATERIAL REQUIRED FOR 132/220 kV GIS SUB-STATION AT CHAROR

CORRECTION OF ARITHMETIC ERRORS

Name of Bidder	Particulars	Bidders Price at opening		Corrections		Corrected bid Price		Remarks
		USD	INR	USD	INR	USD	INR	
1	2	3	4	5	6	7	8	9
M/S Blue Star Ltd, Mumbai (BB)	Schedule-2 item 29(i) Auxiliary bus bar arrangement to connect the existing spare transformer with proposed transformer bank		0		0.00	0	0	items amended in BOM but not considered by Firm hence bidder will provide these items free of cost
	Schedule-2 Price of items with /without taxes		275479721.21		270078158.05		-5401563.16	2% CST included in Price
	Schedule-5b Price of items with /without taxes		385000.00		337719.30		-47280.70	Service tax included in Price
	Schedule-4 item U: Miscellaneous Items, Earthing Material and Erection Hardware		0		1,59,844	0	159844	items amended in BOM, rate quoted quantity not considered by Firm
	Total					139200	-5286999.863	
M/S Toshiba T&D System (India) Pvt. Ltd. Medak,	Nil							

Dy. General Manager (Contracts)
H.P. Power Transmission Corpn. Ltd.
Barowalia House, Khalini, Shimla-2

Arithmetic Error 2 of 2

General Manager (C&D)
HPPTCL, Shimla-5

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Table-9b

TENDER DOCUMENT No.: 17 - SS / ADB / HPPTCL / 220 KV GIS CHAROR

GUARANTEED LOSS OF TRANSFORMERS

COMPARATIVE STATEMENT

	Description						M/S Kanohar Electricals Ltd. Meerut (B5)		M/S Shyam Indus Solutions Pvt. Ltd. New Delhi (B6)		M/S BAJAJ ELECTRICALS LTD. MUMBAI (B1)		M/S Blue Star Ltd. Mumbai (B2)		M/S Toshiba T&D System (India) Pvt. Ltd. Medak, Telangana (B3)	
SR. NO.	EQUIPMENT	PARAMETER TO BE TAKEN FOR LEVY OF LIQUIDATED DAMAGES FOR FAILURE TO ATTAIN THE GUARANTEES	QTY	UNIT	RATE OF LIQUIDATED DAMAGES	Currency	Quoted Loss	Total Loss	Quoted Loss	Total Loss	Quoted Loss	Total Loss	Quoted Loss	Total Loss	Quoted Loss	Total Loss
1	2	3	4	5	6	7	16	17	18	19	20	21	22	23	24	25
1	25.56/34.08/42.60 MVA, 33/132/220KV , 1- Phase Power Transformer	Copper Loss (kW)	3	Nos	1,03,718	INR	60.5	1,88,24,617	84.5	2,62,92,513	98	3,04,93,092	92	2,86,26,168	84.5	2,62,92,513
		Iron Loss (kW)	3	Nos	2,54,212	INR	12	91,51,632	12.5	95,32,950	12.5	95,32,950	12.5	95,32,950	12.5	95,32,950
		Auxiliary Loss (kW)	3	Nos	1,01,685	INR	4	12,20,220	4	12,20,220	4	12,20,220	4	12,20,220	4	12,20,220
2	250 KVA , 33/0.4 , 3-Phase Station Transformer	Copper Loss (kW)	1	Nos	1,03,718	INR	4	4,14,872	2.65	2,74,853	3.81	3,95,166	4.9	5,08,218	4	4,14,872
		Iron Loss (kW)	1	Nos	2,54,212	INR	0.675	1,71,593	0.4	1,01,685	0.66	1,67,760	0.55	1,39,817	0.45	1,14,395
		Auxiliary Loss (kW)	1	Nos	1,01,685	INR	0	0	0	0	0	0	0	0	0	0
	TOTAL							2,97,83,134		3,74,22,221		4,18,09,208		4,00,27,373		3,75,74,950

Dy. General Manager (Contracts)
H.P. Power Transmission Corpn. Ltd
Barowalia House, Khalini, Shimla-2

General Manager (C&D)
HPPTCL, Shimla-5

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TENDER DOCUMENT No. : 01 : 25 / ADD / HPPTCL / 220 kV GIS CHANDI

BILL OF MATERIAL REQUIRED FOR 132/220 kV GIS SUB STATION AT CHANDI

TOTAL EVALUATED BID PRICES

Sr. No.	DESCRIPTION	M/S Hyosung Power Systems Pvt. Ltd. Noida (UP)		M/S [illegible]		M/S [illegible]		M/S Transformers Engineering Ltd. Faridabad (Hry)		M/S Hyosung Transformers Ltd. Bhopal (MP)		M/S Bharat Heavy Electricals Pvt. Ltd. New Delhi (Del)		M/S [illegible]		M/S Alstom India Ltd. Mumbai (MH)		M/S Toshiba T&D System (India) Pvt. Ltd. Mandal, Telangana (TN)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Item	Foreign (USD)	Local in (INR)	Foreign (USD)	Local in (INR)	Foreign (USD)	Local in (INR)	Foreign (USD)	Local in (INR)	Foreign (USD)	Local in (INR)	Foreign (USD)	Local in (INR)	Foreign (USD)	Local in (INR)	Foreign (USD)	Local in (INR)	Foreign (USD)	Local in (INR)
1	Bid Price [Table I (Schedule-B)	38,01,853	66,05,74,201	22,21,308	42,19,94,836	0	80,01,04,163	38,71,016	43,06,88,375	47,30,731	43,08,64,752	22,88,000	68,01,51,201	43,39,000	62,71,25,602	39,08,479	66,47,19,155	0	73,67,09,431
2	Corrective Entry [Table-II]	0	20,000	0	69,31,716	0	-1,32,87,043	8,111	35,31,002	0	1,84,32,248	0	7,84,36,201	84,875	-20,00,000	1,36,300	57,89,702	0	0
3	Corrected Bid Price (1+2)	39,02,833	66,60,93,748	22,21,308	42,50,31,552	0	80,78,87,326	38,79,128	43,20,88,047	47,30,731	41,23,42,348	22,88,000	67,93,83,812	42,38,124	63,36,24,922	39,43,679	63,66,27,169	0	73,67,09,431
4	Deviation Rate as per BS 33 (EC) % Or BS 48, 50%	52.48		52.48		52.48		52.48		52.48		52.48		52.48		52.48		52.48	
5	Bid evaluated Bid price in INR		73,94,67,127		42,50,31,552		80,78,87,326		87,59,09,478		79,93,88,863		76,86,33,269		79,94,99,629		83,74,48,289		72,67,09,431
6	Discount on Total Bid Price (%)		17.50%		0		NA		2%		0%		0		0%		0%		0%
7	Discount on total Bid Price (amount)		12,94,36,728		0		2,13,08,443.01		2,52,74,264		0		0		0		0		0
8	Net Bid price after Discount (5-7)		61,00,30,400		42,50,31,552		80,66,78,883		85,06,34,224		79,93,88,863		76,86,33,269		79,94,99,629		83,79,48,289		73,67,09,431
9	Loading of Transformer Guarantee losses (Table II)		4,08,29,517		2,61,99,882		5,78,51,814		1,06,78,895		2,97,83,794		2,74,29,231		4,18,96,108		4,06,17,314		2,93,71,992
10	Total Evaluated Price in Bid after loading of Transfrmer Guarantee		65,08,59,917		52,04,30,354		87,42,30,697		86,44,31,030		73,51,62,159		81,52,49,886		65,32,29,539		87,72,67,972		77,61,01,392
11	Ranking		7		2		8		3		4		6		1		9		5

Dy. General Manager (Contracts)
H.P. Power Transmission Corpn. Ltd.
Vidyut Bhawan, Khalini, Shimla-2

Dy. Manager (Contract)
H.P. Power Transmission Corpn. Ltd.
Vidyut Bhawan, Khalini, Shimla-2

Dy. Manager (Contract)
HPPTCL, Barotiwala
Shimla-2

General Manager (C&D)
HPPTCL, Shimla-5

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H.P. POWER TRANSMISSION CORPORATION LIMITED
(A State Government Undertaking)
Regd. office: Himfed Bhawan, New ISBT Road, Panjari Shimla-5
(CIN): U40101HP2008SGC030950.
Ph:-0177-2831283, 2831284, FAX:-0177-2831284 Web:www.hpptcl.com

Our Reference No.: HPPTCL / Contracts / ADB CHAROR / 2017- Dated:

To,

Mr. Jigar A. Bhatt,
Project Officer, Energy
INRM, 4 San Martin Marg, Chanakyapuri,
New Delhi.

Subject: Loan No.: 3001 – IND: HP Transmission - Proposed Himachal Pradesh Clean Energy Transmission Investment Program (Tranche - 2) - **Bid No.: 27 - SS / ADB / HPPTCL / 220 kV GIS CHAROR**

Dear Sir,

In accordance with the provisions of the Loan Agreement, we have invited Bids for the above Contract following the Procedure of the ADB. We are submitting herewith three (3) copies of the Bid Evaluation Report (Techno Commercial Proposals) under Bid No.: **27 - SS / ADB / HPPTCL / 220 kV GIS Charor Sub Station** for "Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Loading/Unloading, Storage, Erection, Testing, and Commissioning of 132/220 kV GIS Sub Station having 132 kV & 220kV GIS Equipments, 3 x 25.56/34.08/42.6 MVA, Single Phase Auto Transformers and other Sub Station Equipments and Associated Civil Works at Charor in Kullu District of Himachal Pradesh on Turnkey Basis" for ADB's review and approval.

Your early reply to this matter will be appreciated.

Sincerely yours,

Dy. General Manager (Contracts)

Attachment: Three copies of Report

General Manager (C&D)
HPPTCL, Shimla-5

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H. P. POWER TRANSMISSION CORPORATION LIMITED

TECHNICAL BID EVALUATION REPORT

FOR

CONSTRUCTION OF 132/220 kV GIS SUBSTATION AT CHAROR IN KULLU DISTRICT (HIMACHAL PRADESH) ON TURNKEY BASIS

BID No.: 27 - SS / ADB / HPPTCL / 220 kV GIS CHAROR SUB STATION

ADB LOAN No.: 3001 – IND: HP Transmission

Proposed Himachal Pradesh Clean Energy Transmission Investment Program (Tranche – 2)

October, 2017

Dy(C)

General Manager (C&D)
HPPTCL, Shimla-5

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General Manager (C&D)
HPPTCL, Shimla-5

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General Manager (C&D)
HPPTCL, Shimla-5

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1	INTRODUCTION
	1.1 General
	H. P. Power Transmission Corporation Limited (HPPTCL) has received a Loan against **Loan No. 3001 - IND** from the Asian Development Bank (**ADB**) to Finance the Cost of Construction of various Transmission Schemes in Himachal Pradesh, India. It is intended that part of the proceeds of this Loan be used for eligible payments for the Supply of Equipment, Installation, Testing and Commissioning and related Technical Services in the Construction of 132/220 kV, GIS Sub Station at Charor in Kullu District of Himachal Pradesh, India, for which these Bids were invited. Single - Stage, Two - Envelopes Bidding Procedure has been followed for this procurement.
	1.2 Publication of Bids
	The Invitation for Bids was floated on the 17th December 2016 for publication in two number English Language Newspapers viz 'The Times of India' and 'The Tribune' and one edition of Hindi Language Newspaper 'Danik Bhaskar ' and same were published on 22nd December & 21st December 2016 respectively (*Copies attached as **Annexure - NP***) after obtaining the ADB approval of Draft Bidding Document via Fax approval dated 2nd December 2016 (**Annexure - 1**). The Invitation for Bids was also posted on HPPTCL's Website and ADB website.
	1.3 Pre-Bid Meeting
	The Pre -Bid Meeting was fixed on 18th, January 2017 in HPPTCL's Office at Shimla as stipulated in the Bidding Documents. None of bidders attended the Pre-Bid meeting.
	1.4 Submission of Bids
	The Date of Submission and Opening of Bids in the first instance was fixed for 06-02-2017, which was extended to 27-02-2017 and finally extended to 20.03.2017 on the request of the prospective Bidders. The extension in Due Date for Submission and Opening was done after obtaining the approval from ADB. The closing Time for the Submission of Bids was not changed and the receipt of Bids by the HPPTCL was closed at 13:00 Hrs. (Local time) on 20th March 2017 as scheduled. Out of Eleven (11) firms, who had purchased the Bidding Documents, only Nine (9) number Bidders as mentioned in subsequent paras submitted their Bids.
	1.5 Bid Opening
	Bids were opened at 15:00 Hrs on 20th March, 2017 in the office of the General Manager (C & D), HPPTCL, HIMFED Bhawan, Shimla - 171005 by the Bid Opening Committee constituted vide HPPTCL's letter dated 25.04.2014 (**Annexure-2**) in the presence of Representatives of Bidders. The Bidders' names were announced and recorded. The Bid Opening Committee opened the

General Manager (C&D)
HPPTCL, Shimla-5

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	envelopes of the Technical and Financial Proposals and examined the Documents. Bidder's Name, Discount or Alternative Offer if any, and the presence or absence of the requisite Bid Security and its amount were announced and recorded. All the necessary Papers, Forms and Schedules were signed by the Members of the Committee. The conditions of the Second Envelopes containing Price Proposals were checked thoroughly and signed by the Members of the Committee on each of the envelopes. The Record of Bid Opening was prepared soon after the Bids were opened and a copy of the Record of Bid Opening was furnished to the ADB. **(Annexure- 3).**
	1.6 Basic Data
	The Key Information of the Bidding Process was collected so that it would be readily available. The Basic Information pertaining to the Bidding was summarised and is presented in **Appendix - 1.**
	1.7 Bid Evaluation Committee
	A Tender Evaluation Committee comprising following five Senior officers of HPPTCL was constituted vide Office Order No.: HPPTCL /Contracts/ ADB / General/2014-15 -418-25 dated 25.04.2014 and information included in Annexure - 2.
	1 General Manager (C&D) — Chairman
	2 DGM & Head, Trans. Designs — Member
	3 DGM (Finance) — Member
	4 DGM (Projects) — Member
	5 DGM (Contracts) — Member
	The Committee's decisions have been made on the basis of unanimous views.
2	**EXAMINATION FOR COMPLETENESS OF BIDS**
	The Names of the Bidders and their Nationalities are shown in the following Table:
	2.1 List of Bidders
	Sr. No — Name — Nationality
	1. M/S Kanohar Electricals Ltd. Meerut- (Bidder- 1) — Indian
	2. M/S Shyam Indus Power Solution, New Delhi- (Bidder-2) — Indian
	3 M/S GE T&D India Ltd. Noida- (Bidder- 3) — Indian
	4 M/S Technofab Engineering Ltd. New Delhi- (Bidder- 4) — Indian
	5. M/S Toshiba T & D Systems (India) Pvt. Ltd. Telangana- (Bidder- 5) — Indian
	6 M/S TBEA Energy Ltd. Vadodara Gujarat- (Bidder- 6) — Indian

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	Documents. The results of the review are summarized in **Appendix-4** Evaluation of Bidders' Qualifications. The findings of the review are briefly presented below.
	(a) M/S Kanohar Electricals Ltd. Meerut U.P.- (Bidder- 1)
	Bidder has submitted the bid under clause 1.1 (e) Technical Experience of Section - 3 "Evaluation and Qualification Criteria" in Technical Collaboration with M/S Chung Hsin E&M Mfg. Corp. Taiwan. The bidder fulfils the Financial requirements The Collaborator firm, M/s Chung Hsin E&M Mfg. Corp. Taiwan fulfils the requirement of Clause No. 2.4.2. (a) Contracts of Similar Size and nature of Section - 3 "Evaluation and Qualification Criteria" of Tender Specifications as well as meet the criteria of clauses 1.1.1 and 1.1.2 of Technical Experience. Thus, M/S Kanohar Electricals Ltd. is considered to have adequate experience to undertake this Contract as such the Bidder is considered as **Responsive**.
	(b) M/S Shyam Indus Power Solution, New Delhi- (Bidder-2)
	M/S Shyam Indus Power Sol. Pvt. Ltd. New Delhi as a Lead Partner has formed Joint Venture with M/S New Northeast Electric Group High Voltage Switchgear Co. Ltd. The Financial Capacities of the Lead Partner as well as its JV are satisfactory. The JV fulfils the requirement of Sub - Clause No.: 1.1 of Clause 2.4 (Experience) (b) Experience in Key Activities, Sub-Clause No. 1.1.1 (Experience of GIS Manufactures) and 1.1.2 (Experience of Erectors) of Section - 3 "Evaluation and Qualification Criteria" of Tender Specifications. M/S Shyam Indus Power Solution, New Delhi in Joint venture with M/S New Northeast Electric Group High Voltage Switchgear Co. Ltd. China is considered to have satisfactory experience to undertake this Contract. Hence the Bidder is considered as **Responsive**.
	(c) M/S GE T&D India Ltd. Noida India- (Bidder- 3)
	The Financial and Technical Capacities of the firm are sound, who has participated as individual. M/S GE T&D India Ltd. Noida India possesses vast experience in execution of Turnkey Projects for GIS Sub Stations and has undertaken and completed quite a number of GIS Sub Stations of similar nature. Firm has vast experience of Manufacturing of GIS equipment and execution of GIS Sub-Stations on turn-key basis. The Firm meets the Technical Experience as stipulated in Clause 2.4 (Experience) ,Sub-Clause No. 1.1.1(Experience of GIS Manufactures) and 1.1.2 (Experience of Erectors) of Section - 3 "Evaluation and Qualification Criteria" of Tender Specifications. M/S GE T&D Ihdia Ltd. Noida India is considered to have satisfactory experience to undertake this Contract. Hence the Bidder is considered as **Responsive.**
	(d) M/S Technofab Engineering Ltd. New Delhi- (Bidder- 4)
	M/S Technofab Engineering Ltd. New Delhi has participated in Joint venture with M/S Sieyuan Electric Co. Ltd. Shanghai, China, having sufficient Financial and Technical Capacities and

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General Manager (C&D)
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	possesses vast experience in execution of Turnkey Projects for GIS Sub Stations and has undertaken and completed quite a number of GIS Sub Stations of similar nature. The Firm meets the Technical Experience as stipulated in Clause No.2.4 (Experience), Sub - Clause No.: 1.1. 1 (Experience of GIS Manufactures) and 1.1.2 (Experience of Erectors) of Section - 3 "Evaluation and Qualification Criteria" of Tender Specifications. M/S Technofab Engineering Ltd. New Delhi in Joint venture with M/S Sieyuan Electric Co. Ltd. Shanghai, China is considered to have satisfactory experience to undertake this Contract. Hence the Bidder is considered as **Responsive.**
	(e) M/S Toshiba Transmission & Distribution Systems (India) Pvt. Ltd. Patancheru Mandal, Telangana- India- (Bidder-5) M/S Toshiba T & D Systems (India) Pvt. Ltd. Patancheru Mandal, Telangana has participated as individual and qualifies under clause 1.1 (e) , Technical Experience, of section-3 (E & QC), possesses good experience in execution of Turnkey Projects for GIS Sub Stations and has undertaken and completed quite a number of GIS Sub Stations of similar nature. The Firm meets the Technical Experience as stipulated in Clause No.2.4 (Experience), Sub - Clause No.: 1.1. 1 (Experience of GIS Manufactures) and 1.1.2 (Experience of Erectors) of Section - 3 "Evaluation and Qualification Criteria" of Tender Specifications. M/S Toshiba T & D Systems (India) Pvt. Ltd. Patancheru Mandal, Telangana is considered to have satisfactory experience to undertake this Contract. Hence the Bidder is considered as **Responsive.**
	(f) M/S TBEA Energy Ltd. Vadodara Gujarat (Bidder-6) M/S TBEA Energy Ltd Vadodara has submitted the bid as Individual Firm. The Minimum Average Annual Turn Over of the bidder meets the requirement. The bidder has not produced the evidenceThe Financial Capacities such as Cash Flow as well as Liquid Assets. The bidder has failed to comply with the criteria of Clause No. 2.4.2, Specific Experience Section-3 (E & QC) (a) Contracts of Similar Size and nature. The bidder also failed to meet the Criteria under Clause No. 2.4.2, Specific Experience Section-3 (E & QC) (b) Experience in Key Activities , Clause No. 1.1.1, (Experience of GIS Manufactures) and Clause No. 1.1.2 (Experience of Erectors) of Section - 3 "Evaluation and Qualification Criteria" of Tender Specifications. The firm could not meet the essential qualification requirement of the bid document hence, M/S TBEA Energy Ltd. Vadodara India is considered as **NON RESPONSIVE**
	(g) M/S Shyama Power India Ltd. Gurgaon- India. (Bidder-7) M/S Shyama Power India Ltd. Gurgaon has participated as individual. The Financial requirements of the bidder are adequate. The bidder meets the Criteria under Clause No. 2.4.2, Specific Experience Section-3 (E & QC) (b) Experience in Key Activities , Clause No. 1.1.1, (Experience of GIS Manufactures) and Clause No. 1.1.2 (Experience of Erectors) of Section - 3 "Evaluation and

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	Qualification Criteria" of Tender Specifications. As per Clause No. 2.4.2, Specific Experience Section-3 (E & QC) (a) Contracts of Similar Size and nature, bidder should have executed or substantial completed Two contracts Each 488 MINR. Bidder has demonstrated only one GIS Contract of Similar Size and nature of amount 335.9 MINR which is less than the requisite amount. The Bidder does not qualify the essential Qualification Requirement of the bid document. Hence the Bidder is considered as **Non Responsive**.
	(h) M/S Vijai Electricals Ltd. Hyderabad- India. (Bidder-8) M/S Vijai Electricals Ltd. Hyderabad has participated as individual. The financial capabilities of the firm are sound. The bidder fulfils the requirement of Sub - Clause No.: 1.1 of Clause 2.4 (Experience) (b) Experience in Key Activities, Sub-Clause No. 1.1.1 (Experience of GIS Manufactures) and 1.1.2 (Experience of Erectors) of Section - 3 "Evaluation and Qualification Criteria" of Tender Specifications. M/S Vijai Electricals Ltd. Hyderabad is considered to have satisfactory experience to undertake this Contract. Hence the Bidder is considered as **Responsive.**
	(i) M/S Bajaj Electricals Ltd. Mumbai- India. (Bidder-9) Bidder has formed Consortium with M/S Tai'an Taishan High Voltage Switchgear China. having sufficient Financial and Technical Capacities and possesses vast experience in execution of Turnkey Projects for GIS Sub Stations and has undertaken and completed quite a number of GIS Sub Stations of similar nature. The Firm meets the Technical Experience as stipulated in Clause No 2.4 (Experience), Sub - Clause No.: 1.1. 1 (Experience of GIS Manufactures) and 1.1.2 (Experience of Erectors) of Section - 3 "Evaluation and Qualification Criteria" of Tender Specifications. M/S Bajaj Electricals Ltd. Mumbai in Consortium with M/S Tai'an Taishan High Voltage Switchgear China is considered to have satisfactory experience to undertake this Contract. As per Section – 4 (Bidding Forms), Attachment- 4 (Guarantee Declaration), Guaranteed Losses had not been supplied. It was intimated to the Bidder accordingly that Price Bid shall be evaluated as per rules. The Bidder is considered as **Responsive.**
	3.3 Compliance with Commercial Terms and Conditions
	3.3.1 Bid Validity and Bid Security
	The Bid Validity Period of at least 240 days from the Date of Bid Opening was specified in the Bidding Documents. All the Six Bidders offered the Bid Validity Period in line with Tender Document. As stipulated in the Bidding Documents, all Bidders submitted the Bid Security as required.
	3.3.2 Terms of Payment and Reservations to Commercial Conditions
	All the Nine Bidders accepted the Terms and Conditions of the Bidding Documents with respect to Payments and also accepted the Price Adjustment Provisions and specified mechanism for the

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	determination of Price Adjustments. None of the proposals contained serious reservations to the major commercial conditions of the Bidding Documents. All Bidders accepted the provisions for Liquidated Damages, Functional Guarantees and the corresponding Adjustments, Performance Security, Insurance and other stipulations for the Transportation of Goods, Warranty Conditions and after Sales Service.
	3.3.3 Time for Completion / Contract Execution Schedule
	The Contract Execution Schedules and Sequence of Delivery of Major Units of Plant were evaluated in detail and compared with the requirements of the Bidding Documents. The Contract Execution Schedules submitted by the Bidders are generally in order. All Six Bidders' Proposed Contract Execution Schedules meet the completion requirement of **24 months** for 220 kV and 132kV System. The detail is summarised in Appendix-5 (Clause wise evaluation of bidders)
	3.3.4 Clause wise Evaluation of Bidder Qualifications :-
	The Clause wise evaluation of bidders' qualification and compliance by bidders, have been tabulated in **Appendix-5.** All the bids were substantially responsive commercially to the requirements of the Bidding Documents. The detail of JV bidders' qualification is summarised in **Appendix-6.**
4	DETAILED EVALUATION FOR TECHNICAL REQUIREMENTS
	4.1 Responsive and Non Responsive Bids
	As discussed in Section 3, in particular Sub - Section 3.2, Bidders' Qualifications that the Bids submitted by the Seven Bidders were determined as Substantially Responsive, however, the Bids submitted by the Two Bidders were determined as Substantially NON-Responsive to the requirements of the Bidding Documents.
	4.2 Evaluation of Technical Requirements of Responsive Bids
	Technology The GIS equipments are considered as important items for the project, and special attention has been given in the evaluation with respect to design, quality, reliability and safety. The evaluation showed that all the bidders are the manufacturers of GIS equipments and fulfilled the required standards satisfactorily, **except M/s TBEA Energy Ltd. Vadodara.** The documents show that the Power Transformers of reputed make shall be supplied by the bidders meeting the Technical requirements specified in the Bidding Document **Compliance with Technical Specifications** The Scope of Work, Technical information and Technical Data submitted by the Bidder was

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	scrutinized in detail and a comparison was carried out with the Technical Requirements of the Bidding Documents. The Bidders have submitted substantially complete information and generally satisfied the Technical Requirements of the Bidding Documents **except M/s TBEA Energy Ltd. Vadodara**. Because of the nature of the Works and the size of the Plant involved, clarifications and additional information was required to assess the Technical acceptability and Standards of Goods and services offered and also to assess the completeness of the Scope of Works. Out of Nine bidders, Eight Bidders (**Except M/s TBEA Energy Ltd. Vadodara**) satisfactorily complied with the scope of the technical specifications and generally meet the requirements of the specifications. The summary of Substantive Responsiveness/ Non-Responsiveness to the Major Technical Requirements of the bidding documents is prepared and tabulated as **Appendix- 7**. **M/s TBEA Energy Ltd. Vadodara does not fulfil the Technical Specifications as required in the bidding Document, hence the bidder is considered Non Responsive.**
	4.3 Clarifications and Discussions
	Because of nature of the works and size of the plant involved, clarifications and additional information was required to assess the Technical acceptability and standard goods and services offered and also to assess the completeness of the scope of works. The issues requiring clarifications/confirmations after Detailed Evaluation of the Commercial and Technical Documents were sent to the Respective Bidder with the request to submit necessary clarifications, additional information, to conform to the Technical Requirements of the Bidding Documents. The Bidders were given sufficient time to submit these clarifications .All the bidders complied with the request. The clarifications /confirmations furnished by all the Bidders resulted in their Technical Proposals conforming to Technical Standards and meeting the Technical Requirements of the Bidding Documents by the Tender Evaluation Committee. The TEC's decisions have been made on the unanimous views of its members. The minutes of Tender Evaluation Committee are as per **Annexure-4**
5	**CONCLUSIONS AND RECOMMENDATIONS**
	On the basis of the analysis of the Technical Proposals presented in this Report, it is concluded that:
	The Original Technical Proposal supplemented by clarifications, additional information of the SEVEN Bidders are considered **Responsive** to the requirements of the Bidding Documents.viz. 1. M/S Kanohar Electricals Ltd. Meerut U.P. in Collaboration with M/S Chung Hsin Electric and Machinery Mfg. Corp. Taiwan, (Bidder- 1) 2. M/S Shyam Indus Power Solution, New Delhi in Joint venture with M/S New Northeast

General Manager (C&D)
HPPTCL, Shimla-5

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	Electric Group High Voltage Switchgear Co. Ltd. China (Bidder- 2) 3. M/S GE T&D India Ltd. Noida India, (Bidder- 3) 4. M/S Technofab Engineering Ltd. New Delhi in Joint venture with M/S Sieyuan Electric Co. Ltd. Shanghai, China, (Bidder- 4) 5. M/S Toshiba T & D Systems (India) Pvt. Ltd. Telangana- (Bidder- 5) 6. M/S Vijai Electricals Ltd. Hyderabad, (Bidder- 8) 7. M/s Bajaj Electricals Ltd. Mumbai in Joint Venture with M/S Tai'an Taishan High Voltage Switchgear China, (Bidder- 9) However, the following Two Bidders are considered **Non Responsive Viz.** 1. M/S TBEA Energy Ltd. Vadodara Gujarat, (Bidder- 6) 2. M/S Shyama Power India Ltd. Gurgaon, (Bidder- 7)
	It is recommended that ADB to approve opening of the Price Bids of the SEVEN Responsive Bidders as mentioned above.

Dy. GENERAL MANAGER (CONTRACTS)

(Dy. GM/CONTRACTS/D+C)

General Manager (C&D)
HPPTCL, Shimla-5

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ANNEXURE-2B

H.P. Power Transmission Corporation Limited
(A State Govt. Undertaking)
Himfed Bhawan, Panjari, Shimla-171005
Ph:-0177-2831283, FAX:-0177-2831284, Fax:-0177-2831284
Web:-www.hpptcl.com

No: HPPTCL/PRJ/Surface & Ground Water-Award/2018- 8679-91 **Dated:** 11-10-2019

From

Deputy General Manager (Projects),
HPPTCL, Himfed Bhawan, Panjari, Shimla -05.

To

M/S Evapo Tech,
5-C Model Town Patiala (Punjab)

Subject: - Award of work for carrying out Surface and Ground Water Quality and Soil Test for the work below under different PIUs.

Sir,

I have been authorized to place this additional award on your firm for conducting Surface and Ground Water and Soil Pollution Test and Test Analysis for the following works under different PIUs of H.P. Power Corporation Ltd. on your quoted rates as per Terms and Conditions of earlier award placed on your firm vide **Award Letter of even file No. HPPTCL/PRJ/Surface & Ground Water – Award/2017-7536-46, Dated 11-10-2017.** The scope of Work and Prices are as under:-

1. **SCOPE OF WORK AND PRICES FOR PRE- COMMISIONED SITES (Refer To Annexure 'A'):**

Sr. No.	Description	Parameters to be monitored	Location	Unit	Qty.	Rate Per site in all 4 directions	Amount(Rs.)
I)	Surface and ground water pollution	EC, TSS, DO, BOD, PH, Oil and grease, Pb	Nearest downstream spring/hand pump wells (2 wells).	Samples in all four directions.	3 times / year	60,000/-	1,80,000/-
II)	Soil pollution	PH, Sulfate (SO3), Chloride, ORP, water Soluble salts EC, Organic Matter, Moisture Content	Inside and outside (just close to the proposed site, 2 locations).	Samples in all four directions.	3 times / year	50,000/-	1,50,000/-
Test site to be decided in consultation with the concerned Sr. Manager, HPPTCL.							
Total							3,30,000
No. of Sites							11
Total (1)							**36,30,000/-**

General Manager (C&D)
HPPTCL, Shimla-5

2.B.1

2. **SCOPE OF WORK AND PRICES FOR COMMISSIONED SITES (Refer To Annexure 'B'):**

Sr. No.	Description	Parameters to be monitored	Location	Unit	Qty.	Rate Per site in all 4 directions	Amount(Rs.)
I)	Surface and ground water pollution	EC, TSS, DO, BOD, PH, Oil and grease, Pb	Nearest downstream spring/hand pump wells (2 wells).	Samples in all four directions.	Once a year	60,000/-	60,000/-
II)	Soil pollution	PH, Sulfate (SO3), Chloride, ORP, water Soluble salts EC, Organic Matter, Moisture Content	Inside and outside (just close to the proposed site, 2 locations).	Samples in all four directions.	Once a year	50,000/-	50,000/-
Test site to be decided in consultation with the concerned Sr. Manager, HPPTCL.							
Total							1,10,000/-
No. of Sites							3
Total (2)							**3,30,000/-**
Grand Total (1+2)							**39,60,000/-**

Rupees Thirty Nine Lakh Sixty Thousand only.

2. **PRICES :**

The Prices are firm.

3. **GST:**

GST as applicable shall be payable extra.

4. **SUBMISSION OF BILLS:**

The bills in duplicate should be sent to concerned Senior Manager who will forward the bill to finance wing of HPPTCL, Himfed Bhawan, Panjari, Shimla 171005 for payment dully checked and verified.

5. **COMPLETION TIME:**

The total work shall be completed within **one year** from the date of issue of award. A period of 7 days from the date of issue of award of work will be allowed for receipt of detailed award of letter.

6. **LIQUIDATED DAMAGES FOR DELAY IN COMPLETION**

Late completion beyond the stipulated date of completion shall be liable to liquidated damages amounting to penalty at the rate of 0.5% of the contract price per week or part thereof the period of delay subject of 5% of the contract value.

General Manager (C&D)
HPPTCL, Shimla-5

7. TERMS OF PAYMENT:

The payment shall be released within 45 days after the successful completion of each sample and acceptance of test reports. The payment shall also be allowed on the basis of actual completion of each sample.

8. CONTRACT PERFORMANCE SECURITY:-

The Contractor shall submit Performance Security for an amount equal to 10% of the contract price in shape of Bank Guarantee in the prescribed form (Form-IV) within 30 days of the date of notification of award.

9. CONTRACT AGREEMENT:

The contractor shall execute a legal contract in duplicate on the stamp paper worth Rs. 100/-, immediately after the receipt of award of letter but not later than 30 days of the date of issuance of award. The detailed award of letter with complete terms and conditions/ NIT and technical specifications will be the part of contract agreement.

10. OTHER TERMS AND CONDITIONS:

i. The firm will submit the test reports duly analyzed by CPCB/HPCB approved laboratory including the standard limit and site results comparisons.
ii. The test should be performed as per award order.
iii. The sampling should be conducted in the presence of representative of HPPTCL.
iv. Firm/contractor shall ensure compliance with all laws, Bye-Laws, Policies, Rules of Govt. /Govt. agencies relating to labour employment and ecology etc. which are in force time to time.
v. All the stationary for the preparation of test results etc. shall be arranged by the firm contactor.
vi. The firm/ contractor shall be fully responsible and liable for any for any accident/mishap and subsequent claim there against.
vii. HPPTCL shall not provide any test equipment or vehicle for carrying out these tests.

Yours faithfully,

Dy. General Manager (Project),
HPPTCL,Himfed Bhawan, Panjari,
Shimla-05.

Copy of above is forwarded to the following :-

1. The Sr. P.S. to The Managing Director, HPPTCL, Panjari Shimla -05, for kind information of worthy Managing Director please.
2. The P.S. to The Director (Projects), HPPTCL, Panjari Shimla -05, for kind information of worthy Director please.
3. The General Manager (Projects), HPPTCL , Panjari Shimla -05, for kind information please.
4. The Addl. General Manager (Fin), Panjari Shimla -05, for kind information please.
5. Sr. Manager, HPPTCL, PIU Lahal, Distt. Chamba for necessary action please.
6. Sr. Manager, HPPTCL, PIU Chamba, Distt. Chamba for necessary action please.
7. Sr. Manager, HPPTCL, PIU Gumma, Distt.Shimla for necessary action please.
8. Sr. Manager, HPPTCL, PIU Bhabanagar, Distt.Shimla for necessary action please.
9. Sr. Manager, HPPTCL, PIU Rohru, Distt.Shimla for necessary action please.
10. Sr. Manager, HPPTCL, PIU Sarabai, Distt. Kullu for necessary action please.
11. Sr. Manager, HPPTCL, PIU Phozal, Distt. Kullu for necessary action please.
12. Sr. Manager, HPPTCL, PIU Chambi, Distt. Kangra for necessary action please.

Dy. General Manager (Project),
HPPTCL,Himfed Bhawan, Panjari,
Shimla-05.

General Manager (C&D)
HPPTCL, Shimla-5

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Annexure-A

Sampling of Soil and Ground Water Pollution of following Pre- Commissioned works:

PIU BHABANAGAR

Sr. No.	Name of Substation
1.	66 kV substation at Urni
2.	220/400 kV Substation at Wangtoo
3.	66/22 kV, 2X10 MVA GIS Substation at Nirmand (Baghipul)

PIU Lahal

Sr. No.	Name of work
1.	C/O 33/220/400 kV substation at Lahal.

PIU Gumma

Sr. No.	Name of work
1.	C/O 220/400 kV substation at Gumma.

PIU Sarabai

Sr. No.	Name of work
1.	132/220kV GIS Substation at Charor.
2.	132/33 kV ,2X31.5 MVA GIS Substation Barsaini

PIU Rohru

Sr. No.	Name of work
1.	132/220kV Pooling Station at Sunda
2.	220 kV Switching Station at Hatkoti

PIU Chamba

Sr. No.	Name of work
1	220/132 kV ,2 X100 MVA GIS Substation Mazra

PIU Phozal

Sr. No.	Name of work
1	33 kV GIS Switching Station at Palchan in Distt. Kullu

Dy. General Manager (Projects)
HPPTCL Shimla -05

General Manager (C&D)
HPPTCL, Shimla-5

2.8.4

Annexure-B

Sampling of Soil and Ground Water Pollution of following Commissioned works:

PIU BHABANAGAR

Sr. No.	Name of Substation
1.	22/66/220 kV Substation at Bhoktoo

PIU CHAMBI

Sr. No.	Name of work
1.	33/132 kV substation at Chambi.

PIU Sarabai

Sr. No.	Name of work
1.	33/132 kV substation at Pandoh.

Dy. General Manager (Projects)
HPPTCL Shimla -05

General Manager (C&D)
HPPTCL, Shimla-5

2.B.5

H.P. POWER TRANSMISSION CORPORATION LIMITED
(A State Government Undertaking)
Regd. office: Himfed Bhawan, New ISBT Road, Shimla-5
(CIN): U40101HP2008SGC030950
Ph:-0177-2831283, 2831284, FAX:-0177-2831284, Web: hpptcl.gov.in

No. **HPPTCL/ADB/F-33/SAMPLING AND AMBIENT AND AIR etc/2017-** 8698-8704 **Dated:** 11-10-2019

From

Deputy General Manager (Projects),
HPPTCL,Panjari, Shimla -05.

To

M/S Interstellar Testing Centre,
Plot No. 86, Industrial Area, Phase-1,
Panchkula- 134109 (Haryana).

Subject:- Award of work for carrying out Ambient Air Pollution and Noise Pollution testing under different PIUs.

Sir,

I have been authorized to place the additional award on your firm for conducting Ambient Air Pollution and Noise Pollution Test and test analysis at various for works under different PIUs of H.P. Power Corporation Ltd. on the Rates and Terms and Conditions of earlier award placed on your firm vide this office Letter of even file **No. HPPTCL/ADB/F-33/Sampling and Ambient And Air etc./2017/10776-84, Dated: 03-01-2018.** The scope of Work and Prices are as under:-

1. **SCOPE OF WORK AND PRICES FOR PRE- COMMISSIONED SITES (Refer Annexure 'A'):**

Sr. No.	Description	Parameters to be Monitored	Unit	Qty	Rate	Amount(Rs.)
I)	Ambient air pollution	SPM(µg/m³),PM 10(µg/m³), PM 2.5(µg/m³), SO2(µg/m³), NO2(µg/m³),NH3 (µg/m³), CO(mg/m³),O3(µg/m³),C6H6(µg/m³),Benzo(a)Pyrene (ng/m³), Pb µg/m³),As(ng/m³), Ni(ng/m³), along with Meteorological data, temperature, humidity, wind speed, wind direction.	3 Samples, once in three directions.	Twice /Year	21,642.00	43,284.00
II)	Noise pollution	Average Slow Response dB(A). Average Fast Response dB(A) Limits of Leq in dB (A)(Standard) Results Day and Night	3 Samples, once in three directions.	Twice /Year	14,428.00	28,856.00
	TOTAL					**72,140.00**
For 11 No. Sites as per list attached as Annexure 'A'						**7,93,540.00**
G.S.T.(18%)						**1,42,837.20**
TOTAL(1)						**9,36,377.20**

General Manager (C&D)
HPPTCL, Shimla-5

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2. **SCOPE OF WORK AND PRICES FOR COMMISSIONED SITES (Refer Annexure 'B'):**

Sr. No.	Description	Parameters to be Monitored	Unit	Qty	Rate	Amount(Rs.)
I)	Ambient air pollution	SPM(µg/m³),PM 10(µg/m³), PM 2.5(µg/m³), SO2(µg/m³), NO2(µg/m³),NH3 (µg/m³), CO(mg/m³),O3(µg/m³),C6H6(µg/m³),Benzo(a)Pyrene (ng/m³), Pb µg/m³),As(ng/m³), Ni(ng/m³), along with Meteorological data, temperature, humidity, wind speed, wind direction.	3 Samples, once in three directions.	Once a year	21,642.00	21,642.00
II)	Noise pollution	Average Slow Response dB(A). Average Fast Response dB(A) Limits of Leq in dB (A)(Standard) Results Day and Night	3 Samples, once in three directions.	Once a year	14,428.00	14,428.00
	TOTAL					**36,070.00**
For 3 No. Sites as per list attached as Annexure 'A'						**1,08,210.00**
G.S.T.(18%)						**19,477.80**
TOTAL(2)						**1,27,687.80**
GRAND TOTAL(1+2)						**10,64,065.00**

Rupees Ten Lakh Sixty Four Thousand Sixty Five only.

3. **PRICES :**

The Prices are firm.

4. **GST:**

GST as applicable shall be paid by HPPTCL.

5. **SUBMISSION OF BILLS:**

The bills in duplicate should be sent to concerned Sr. Manager who will forward the bill to finance wing of HPPTCL, Himfed Bhawan, Panjari, Shimla 171005 for payment dully checked and verified.

5. **COMPLETION TIME:**

The total work shall be completed within **one year** from the date of issue of award. A period of 7 days from the date of issue of award of work will be allowed for receipt of detailed award of letter.

6. **LIQUIDATED DAMAGES FOR DELAY IN COMPLETION**

Late completion beyond the stipulated date of completion shall be liable to liquidated damages amounting to penalty at the rate of 0.5% of the contract price per week or part thereof the period of delay subject of 5% of the contract value.

7. **TERMS OF PAYMENT:**

The payment shall be released within 45 days after the completion of work and acceptance of test reports. The payment shall also be allowed on the basis of actual completion for each test.

General Manager (C&D)
HPPTCL, Shimla-5

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8. **CONTRACT PERFORMANCE SECURITY:-**
The Contractor shall submit Performance Security for an amount equal to 10% of the contract price in shape of Bank Guarantee in the prescribed form (Form-IV) within 30 days of the date of notification of award.

9. **CONTRACT AGREEMENT:**
The contractor shall execute a legal contract in duplicate on the stamp paper worth Rs. 100/-, immediately after the receipt of award of letter but not late than 30 days of the date of issuance of award. The detailed award of letter with complete terms and conditions/ NIT and technical specifications will be the part of contract agreement. The form of contract agreement is enclosed as Annexure – A.

10. **OTHER TERMS AND CONDITIONS:**
i. The firm will submit the test reports duly analyzed by CPCB/HPCB approved laboratory including the standard limit and site results comparisons.
ii. The test should be performed as per award order.
iii. The sampling should be conducted in the presence of representative of HPPTCL.
iv. Firm/contractor shall ensure compliance with all laws, Bye-Laws, Policies, Rules of Govt. /Govt. agencies relating to labour employment and ecology etc. which are in force time to time.
v. All the stationary for the preparation of test results etc. shall be arranged by the firm contactor.
vi. The firm/ contractor shall be fully responsible and liable for any for any accident/mishap and subsequent claim there against.
vii. HPPTCL shall not provide any test equipment or vehicle for carrying out these tests.

Yours faithfully,

Dy. General Manager (Projects)
HPPTCL,Himfed Bhawan, Panjari,
Shimla-05.

Copy of above is forwarded to the following :-
1. The P.S. to The Managing Director, HPPTCL, Panjari Shimla -05, for kind information of worthy Managing Director please.
2. The P.S. to The Director (Projects), HPPTCL, Panjari Shimla -05, for kind information of worthy Director please.
3. The General Manager (Projects), HPPTCL , Panjari Shimla -05, for kind information please.
4. The Addl. General Manager (Fin), Panjari Shimla -05, for kind information please.
5. Sr. Manager, HPPTCL, PIU Lahal, Distt. Chamba for necessary action please.
6. Sr. Manager, HPPTCL, PIU Chamba, Distt. Chamba for necessary action please.
7. Sr. Manager, HPPTCL, PIU Gumma, Distt.Shimla for necessary action please.
8. Sr. Manager, HPPTCL, PIU Bhabanagar, Distt.Shimla for necessary action please.
9. Sr. Manager, HPPTCL, PIU Rohru, Distt.Shimla for necessary action please.
10. Sr. Manager, HPPTCL, PIU Sarabai, Distt. Kullu for necessary action please.
11. Sr. Manager, HPPTCL, PIU Phozal, Distt. Kullu for necessary action please.
12. Sr. Manager, HPPTCL, PIU Chambi, Distt. Kullu for necessary action please.

Dy. General Manager (Projects)
HPPTCL,Himfed Bhawan, Panjari,
Shimla-05.

General Manager (C&D)
HPPTCL, Shimla-5

2·B·8

Annexure-A

Sampling of Soil and Ground Water Pollution of following Pre- Commissioned works:

PIU BHABANAGAR

Sr. No.	Name of Substation
1.	66 kV substation at Urni
2.	220/400 kV Substation at Wangtoo
3.	66/22 kV, 2X10 MVA GIS Substation at Nirmand (Baghipul)

PIU Lahal

Sr. No.	Name of work
1.	C/O 33/220/400 kV substation at Lahal.

PIU Gumma

Sr. No.	Name of work
1.	C/O 220/400 kV substation at Gumma.

PIU Sarabai

Sr. No.	Name of work
1.	132/220kV GIS Substation at Charor.
2.	132/33 kV ,2X31.5 MVA GIS Substation Barsaini

PIU Rohru

Sr. No.	Name of work
1.	132/220kV Pooling Station at Sunda
2.	220 kV Switching Station at Hatkoti

PIU Chamba

Sr. No.	Name of work
1	220/132 kV ,2 X100 MVA GIS Substation Mazra

PIU Phozal

Sr. No.	Name of work
1	33 kV GIS Switching Station at Palchan in Distt. Kullu

Dy. General Manager (Projects)
HPPTCL Shimla -05

General Manager (C&D)
HPPTCL, Shimla-5

2.B.9

Annexure-B

Sampling of Soil and Ground Water Pollution of following Commissioned works:

PIU BHABANAGAR

Sr. No.	Name of Substation
1.	22/66/220 kV Substation at Bhoktoo

PIU CHAMBI

Sr. No.	Name of work
1.	33/132 kV substation at Chambi.

PIU Sarabai

Sr. No.	Name of work
1.	33/132 kV substation at Pandoh.

Dy. General Manager (Projects)
HPPTCL Shimla -05

General Manager (C&D)
HPPTCL, Shimla-5

2-8'10

ANNEXURE-2C

(Ambient air and noise pollution)

Loose Noting –

Subject:- Opening of 2 Nos. bids.

It is submitted that press tenders were invited vide No HPPTCL/ADB/F-33/sampling of ambient air/WIP. for air & noise sampling for different project sites. The opening date was originally scheduled on 19.8.WIP. But only one tender was received upto the schedule date and thereafter the date of sale of tender, of submission & opening was extended upto 04.09.WIP. Only 2 bids have been received. So far. 3

In view of above, it is requested to accord permission to open 2 Nos. bids & process the proposal accordingly. or to allow further extension please. 4

4/9/WIP

GM(P) — on leave.

Director (P)

As proposed, pl open the tenders 5

General Manager (C&D)
HPPTCL, Shimla-5

Subject - Sampling and analysis of Pollutants of Ambient Air and Noise Pollutants at various Substations under HPPTCL.

The bids for above were opened on 4.9.17. The Technical bids have been evaluated. Both the firms are responsive. The Comparative Statement is placed below please

DGM(P) We may open the price bids on 13.10.2017 at 3.00 PM. the firm representatives may be informed. committee may also be formed for opening Price bids

12/10/2017

Sr. Mgr (P)

Put up DFA

11/10/17

DE(C)
DFA as advised Please.
Sr. Manager (P).

11/10/17

DGM(P) Where is the comparative statement
Sr. Mgr (P) the same is already uploaded

18/10/2017

General Manager (C&D)
HPPTCL, Shimla-5

2.C.2

The advertisement for Tests of Air and Noise pollution was published in news paper. Only two firms participated and the permission to open was accorded vide PN-5. The Tenders were opened and both the firms were found responsive. Accordingly the price bids were opened on 13.10.17 at 3 P.M. The comparative statement is also placed below. Due to model code of Conduct the file was kept pending.

After Comparison Industrial Testing Centre Pvt Ltd SCO, Industrial Area Phase-I Panchkula -134109 (Haryana) was found L1.

In ADB funded projects the Air and Noise pollution tests are mandatory. The results needs to be incorporated in EMP (Environment Management Report. The procedure is also placed below. The total financial implication of available rates work out to be Rs 4,68,910-00 only. As quoted 18% GST extra

We may send the entire case to finance wing for concurrance please

Sd/12/17

DGM (P) on Tour

AGM (P)

The price bids have been opened only by two committee members ?

The total financial implication is within taxes or absorbed in this rate as

General Manager (C&D)
HPPTCL, Shimla-5

2.C.3

in comparative statement. Please clarify the total amount for which financial concurrence is to be accorded

DGM (Projects)

20/12/17

The signature of Third member of committee has been obtained on price bids.
As described in PN 11 16% GST will be extra. GST applicable @ 18% is added
13 The Total financial implecation works out to be Rs 5,53,313-00 only (Rs Five lac fifty Three Thousand Three hundred Thirteen only.
The Tent needs to be carried out urgently.
The file is re-submitted for financial concurrance please

20/12/17

DGM (P) on Tour

AGM (F)

To A/CA 20/12/17

NIL to 17 The proposal examined with the enclosed documents and be financially concurred for an amount of Rs 5,10,751=00 (Five lac ten thousand seven hundred fifty one only) inclusive of 18% GST
14 in r/o M/s from M/s Inter stellar Testing centre Pvt Ltd. Panchkula on account of sampling and testing of bitumen Nos. in r/o of Bituminous Mix quality and Nuclear Pollution Source Near Jhakri

AGM (Fin) (P&E) 20/12/17 Shallesh 20/12/17
Director (HPPTCL) Comp. Kaushal 20/12/17 DGM (P)

General Manager (C&D)
HPPTCL, Shimla-5

2.C.4

To, —

Sub: Award of work for carrying out ambient air pollution and noise pollution testing under different PIUs.

Fair draft comprising of award regarding subject cited work is placed below.

Submitted for further necessary action please.

JE (P)

Sr. Manager (P)

DGM (P)

2/1/2018

Dy No: 6667 Dated: 23-1-18

Sub: Tender for Sampling & Analysis of pollution of Ambient Air & Noise Pollution at various sub-stations under HPPTCL (Tender No. HPPTCL/ADB/F-33/sampling of Ambient and Air etc/2017

In the PUC enclosed, M/S Eko Laboratories (Already put up in loose noting.)

General Manager (C&D)
HPPTCL, Shimla-5

2.C.5

H.P. Power Transmission Corporation Limited
(A State Govt. Undertaking)
Himfed Bhawan, Panjari, Shimla-171005
(Telefax: 0177-2626284)

(63)

No. **HPPTCL/ADB/F-33/SAMPLING AND AMBIENT AND AIR etc/2017-**10776-84 Dated: 03-01-18

From

Addl. General Manager (projects)
HPPTCL Shimla -05

To

M/S Interstellar Testing Centre
Plot No. 86, Industrial Area, Phase-1,
Panchkula- 134109 (Haryana).

Subject: - Award of work for carrying out ambient air pollution and noise pollution testing under different PIUs.

Dear Sirs,

I have been authorized to place award for carrying out ambient air pollution and noise pollution test and test analysis for the following substation works under different PIUs of Himachal Pradesh Power Transmission Corporation Ltd. on your quoted rates as per Terms and Conditions of NIT/Bid against Tender Document No. **HPPTCL/ADB/F-33/SAMPLING AND AMBIENT AND AIR etc/2017.**. The scope of Work and Prices are as under:-

1. **SCOPE OF WORK AND PRICES FOR PRE- COMMISSIONED SITES: - Refer Annexure 'A'**

Sr. No.	Description	Parameters to be Monitored	Location	Unit	Qty.	Rate for single testing	Amount(Rs.)
I)	Ambient air pollution	SPM(µg/m³),PM 10(µg/m³), PM 2.5(µg/m³), SO2(µg/m³), NO2(µg/m³),NH3 (µg/m³), CO(mg/m³),O3(µg/m³),C6H6(µg/m³),Benzo(a)Pyrene (ng/m³), Pb µg/m³),As(ng/m³), Ni(ng/m³), along with Meteorological data, temperature, humidity, wind speed, wind direction.	*Inside and outside (0.5 Km) of the proposed substation.*	3 Samples, twice a year after a gap of six months in three directions	2	21,642.00	43,284.00
II)	Noise pollution	Average Slow Response dB(A). Average Fast Response dB(A) Limits of Leq in dB (A)(Standard) Results Day and Night	*Inside and outside (0.25 Km) of the proposed substation.*	3 Samples, twice a year after a gap of six months in three directions	2	14,428.00	28,856.00
	TOTAL						72,140.00
	For 6 No. sites as per list attached-Annexure ' A'						4,32,840.00
GST(18%)							77,911.20
TOTAL							5,10,751.20

General Manager (C&D)
HPPTCL, Shimla-5

2-C6

2 SCOPE OF WORK AND PRICES FOR COMMISSIONED SITES:- Refer Annexure 'B'

Sr No	Description	Parameters to be Monitored	Location	Unit	Qty	Rate	Amount
I)	Ambient air pollution	SPM(µg/m³),PM 10(µg/m³), PM 2.5(µg/m³), SO2(µg/m³), NO2(µg/m³),NH3 (µg/m³), CO(mg/m³),O3(µg/m³),C6H6(µg/m³),Benzo(a)Pyrene (ng/m³), Pb µg/m³),As(ng/m³), Ni(ng/m³), along with Meteorological data, temperature, humidity, wind speed, wind direction.	*Inside and outside (0.5 Km) of the proposed substation*	Samples, once a year in three directions	Once	21,642.00	21614
II)	Noise pollution	Average Slow Response dB(A). Average Fast Response dB(A) Limits of Leq in dB (A)(Standard) Results Day and Night	*Inside and outside (0.25 Km) of the proposed substation*	Samples, once a year in three directions	Once	14,428.00	14,428
	TOTAL						36,07
	For 10 sites as per list attached-Annexure 'B'						
GST(18%)							6,49
TOTAL							42,5
Grand Total(1+2)							**Rs.** 5,53,3

3 PRICES :

The Prices are firm.

4 GST:

GST as applicable shall be paid by HPPTCL.

5. **SUBMISSION OF BILLS:**

The bills in duplicate should be sent to concerned Sr. Manager who will forward the bill to finance wing of HPPTCL, Himfed Bhawan, Panjari, Shimla 171005 for payment duly checked and verified

6. **COMPLETION TIME:**

The total work shall be completed within one year from the date of issue of award. A period of 7 days from the date of issue of award of work will be allowed for receipt of detailed award of letter.

7. **LIQUIDATED DAMAGES FOR DELAY IN COMPLETION**

Late completion beyond the stipulated date of completion shall be liable to liquidated damages amounting to penalty at the rate of 0.5% of the contract price per week or part thereof the period of delay subject of 5% of the contract value.

General Manager (C&D)
HPPTCL, Shimla-5

2-C-7

(15)

8. **TERMS OF PAYMENT:**
The payment shall be released within 45 days after the completion of work and acceptance of test reports. The payment shall also be allowed on the basis of actual completion for each test

9. **CONTRACT PERFORMANCE SECURITRY:-**
The Contractor shall submit Performance Security for an amount equal to 10% of the contract price in shape of Bank Guarantee in the prescribed form (Form-IV) within 30 days of the date of notification of award.

10. **CONTRACT AGREEMENT:**
The contractor shall execute a legal contract in duplicate on the stamp paper worth Rs. 100/-, immediately after the receipt of award of letter but not late than 30 days of the date of issuance of award. The detailed award of letter with complete terms and conditions/ NIT and technical specifications will be the part of contract agreement. The form of contracts agreement is enclosed as Annexure – A.

11. **OTHER TERMS AND CONDITIONS:**
i. The firm will submit the test reports duly analyzed by CPCB/HPCB approved laboratory including the standard limit and site results comparisons.
ii. The test should be performed as per award order.
iii. The test should be conducted in the presence of representative of HPPTCL.
iv. Firm/contractor shall ensure compliance with all laws, Bye-Laws, Policies, Rules of Govt. /Govt. agencies relating to labour employment and ecology etc. which are in force time to time.
v. All the stationary for the preparation of test results etc. shall be arranged by the firm contactor.
vi. The firm/ contractor shall be fully responsible and liable for any for any accident/mishap and subsequent claim there against.
vii. HPPTCL shall not provide any test equipment or vehicle for carrying out these tests

Yours faithfully.

2/11/2018
O/C Addl. General Manager (Projects)
HPPTCL Shimla -05

Copy of above is forwarded to the following for information please:-
1. The P.S. to Managing Director, HPPTCL, Panjari Shimla -05 for information of worthy MD please
2. The P.S. to Director (Projects), HPPTCL, Panjari Shimla -05 for information of worthy Director please
3. General Manager (Projects), HPPTCL, Panjari Shimla -05.
4. Addl. General Manager (Fin), HPPTCL, Panjari Shimla -05 for information of worthy GM please
5. Sr. Manager, HPPTCL, Sarabai, Distt Kullu.
6. Sr. Manager, HPPTCL, Lahal, Distt. Chamba.
7. Sr. Manager, HPPTCL, Gumma, Distt. Shimla.
8. Sr. Manager, HPPTCL, Bhabanagar, Distt. Kinnaur.

2/11/2018
Addl. General Manager (Projects)
HPPTCL, Shimla -05

General Manager (C&D)
HPPTCL, Shimla-5

2-C.8

(68)

Annexure-A

Sampling of Ambient Air and Noise pollution under construction stage for following works:-

PIU BHABANAGAR

Sr. No.	Name of Substation	Name of PIU	Distt.
1.	C/ 66 kV substation at Urni	Bhabanagar	Kinnaur
2.	C/O 220/400 kV substation at Wangtoo	Bhabanagar	Kinnaur

PIU CHAMBA

Sr. No.	Name of work	Name of PIU	Distt.
1.	C/O 33/220/400 kV substation at Lahal.	Lahal.	Chamba

PIU Gumma

Sr. No.	Name of work	Name of PIU	Distt.
1.	C/O 220/400 kV substation at Gumma.	Gumma.	Shimla

PIU Sarabai

Sr. No	Name of work	Name of PIU	Distt.
1.	C/O 33/132 kV substation at Pandoh.	Sarabai	Mandi

PIU CHAMBI

Sr. No	Name of work	Name of PIU	Distt.
1.	C/O 33/132 kV substation at Chambi	Chambi	Kangra

Dy. General Manager (Projects)
HPPTCL Shimla -05

General Manager (C&D)
HPPTCL, Shimla-5

2.C.9

(68)

Annexure-B

Sampling of Ambient Air and Noise pollution for commissioned stage for following work:-

PIU BHABANAGAR

Sr. No.	Name of Substation	Name of PIU	Distt.
1.	22/66/220 kV Substation at Bhoktoo	Bhabanagar	Kinnaur

2/1/2016

Dy. General Manager (Projects)
HPPTCL Shimla -05

General Manager (C&D)
HPPTCL, Shimla-5

2.C.10

Sub – Tender for Sampling and Analysis of Pollutions of Ambient Air and Noise Pollution at various Sub-Stations under HP/PTCL

Below placed is a Tender for above cited Tests. The ADB requirement is to get the Pollution test conducted The frequency of tests are Twice a year during Const Stage. once a year after commissing and once a year fine const Stage. The ADB EMP Table-6 is placed below for reference please.

The sale of Tender is upto 18.8.2017

Submitted Please.

JE (P)

Sr. Manager (P)

DGM(P)

Tender opening Committee

Below placed is office order order of Tender opening committee. The Tender for Air and noise Pollution Test is due for opening on 4.9.17 at 3 PM

Sr. M(P)

General Manager (C&D)
HPPTCL, Shimla-5

2.C.11

HPPTCL/ADB-33A/2017

Sub – Tenders for Sampling of ambient Air and noise Pollution Test for the works being executed under ADB finance Scheme.

As per ADB approved E.M.P (Environment Mangement Plan) placed below it is mendatory to conduct the Air and Noise Tests. The frequency of test is Twice a year for construction stage projects. As per the latest visit of ADB Mission it was proposed upon that the frequency of test be maintained as per EMP i.e Twice a year. The Tenders for Conducting the Tests were invited and were opened on 27.3.2017. The committee for opening of Tenders is annexed at Cl. 4 Nos Participants participated and The comparative statement is placed below placed.

As per the comparative statement the 4 Nos Companies participated for Tender of Sampling and Analysis of Ambient Air and Noise Pollution.

M/s Tell The engineers consultants Institutional Lodhi road new Delhi was found lowest.

The for Soil and Surface/ground water sampling 3 Nos Companies participated. M/s Evaporotech Private was found lowest.

General Manager (C&D)
HPPTCL, Shimla-5

2.C.12

The detail financial implications worked out for three secondary roads in the cadre.

(1) Sampling of Ambient Air & Noise pollution - 10 sites

10 sites @ 999/- per test = 9,99,000/-

10% service Tax - 1,49,850/-

Total 11,48,850/-

(2) Sampling of surface, groundwater and Soil -

10 sites @ 2,40,000 - 24,00,000/-

10% service Tax - 3,61,000/-

TOTAL 27,60,000/-

The total cost i.e. newspaper Add, Tender record, copy of tender enquiry Committee comparative statement etc is placed below Pl.

If agreed we may send the same for financial concurrence to finance my proposal.

Submitted please

30/3/17

Sr Mgr (C)

The tenders seems filled by the parties in connected firm and seems to be pooled. We may go with fresh tenders.

AGM (C)

30/3/17

Sr Mgr (Engg. Mgt)

30/3/17

The office order for cancellation is placed below please

AGM (C)

2.C.B.

General Manager (C&D)
HPPTCL, Shimla-5

Surface and ground water quality

In the enclosure placed below, the drafts of Letter of Award for the work of 'Surface and Ground water quality and Soil test' and 'Ambient Air Pollution and Noise Pollution Testing' have been submitted along with the testing sites of ADB and KFW funded Projects respectively as directed by Consultant (Environment)

Letter of Award drafts have been submitted for perusal and further necessary action please.

JE (P)
17-09-2019

Dy Manager (P) Submitted for ~~not please~~ further necessary action please.
17/9/19.

Sr. Mgr (Consultant - Env) -

Please check w.r.t the rates quoted and put up pair.

Dy Mgr (P)

JE

The corrections in the award, as directed, have been made but there are ambiguities regarding the no. of sites as well as the name of sites that have to be selected for sampling and testing.

Drafts of sites flayed as ADB & KFW projects respectively. Submitted for perusal and further necessary action please.

JE (P)
18-9-19

Dy. Manager (P) on Tour for confirmation of sites.
D.G.M (P) for 27/9
Sr. Mgr (Consultant) Dy Mgr (P)

General Manager (C&D)
HPPTCL, Shimla-5

2.C.14

JE(P)

D.F.A added please.

Submitted for further necessary action please

JE(P)

Dy. Manager (P)

D.G.M. (P)

SM(P)

DFA added, As discussed. May May authorise to issue the order on the same terms & Condition.

DGM(P)

GM(P)

DGM(P)

May process the award to the Firms on same terms & Condition of the contract as already awarded as such the consent is necessary before award to the Firms.

SM(P)

General Manager (C&D)
HPPTCL, Shimla-5

2.2.15

ANNEXURE-2D

H.P. Power Transmission Corporation Ltd.

(A State Govt. Undertaking)
HPPTCL Zone Kullu, (Bhuntar), Distt. Kullu. (H.P). 175125
Telefax: 01902- 265157, Email: dgmsarabai.tcl@hpmail.in
Head Office: HimfedBhawan, Panjari, Shimla – 5. www.hpptcl.com.

No. HPPTCL/SMS/DB-13/2023-24 - 1435-37 Dated: 28-10-2024

To

Shri Yashpal Acharya
Village Haripur, ward No.5
Tehsil Manali, H.P.
Pincode:175136

Subject: Notification of award against Tender No.: HPPTCL/PIU Sarabai/SMS Tenders/14/2024-25-01 for "Providing and Fixing of Doors Windows, Cupboards and associated Electrical works at Rest Camp of 132/220 kV GIS Substation Charor".

References:

i. Your Bid opened on dated: 20/08/2024

This is to notify you that your Bid opened on dated 20/08/2024, for execution of **"Providing and Fixing of Doors Windows, Cupboards and associated Electrical works at Rest Camp of 132/220 kV GIS Substation Charor" for the** quoted price in the aggregate amounting to INR 4,58,519 /- **(INR Four Lakhs Fifty Eight Thousand Five Hundred and Nineteen/-**) including GST @ 18% and negotiated price of INR 4,44,070 (Four lakhs Forty Four Thousand Seventy/-) as corrected and modified in accordance with the Instructions to Bidders and as per the correspondence under reference exchanged with you , is hereby accepted by our agency.

The scope of work covered under the letter of acceptance, shall be as per Technical specifications, Bill of material and directions issued by the Engineer in charge.

The scope of Contract and prices shall be as per **Annexure A.**

The quantities mentioned in enclosed annexure are tentative and exact quantity shall be finalized during detailed engineering /measurement and in the event of variation, the contract prices shall be adjusted accordingly. The payment in respect of

In

General Manager (C&D)
HPPTCL, Shimla-5

2-D-1

items for which unit rates have been mentioned shall be made on the basis of actual measurement at site.

The prices mentioned in enclosed appendices shall be FIXED. The completion period shall be 60 days from date of start of work.

The date of start shall be the effective date which shall be reckoned from the 15th day after the date of notification of award or actual date of start whichever is earlier.

You are requested to furnish the Performance Security @ 10% of the contract price which shall be deducted from the running bills.

A copy of LOA duly signed and marked accepted may please be returned to this office.

ATTACHMENT: Appendix 1 (Award)

Yours Sincerely,

Senior manager (Projects),
PIU Sarabai
Sarabai, Bhuntar-175125

Copy To:

1. DGM (Projects), HPPTCL, Kullu Zone,Bhuntar-175125
2. DGM (Finance), HPPTCL, Himfed Bhawan,Shimla -05.

Senior manager (Projects),
PIU Sarabai
Sarabai, Bhuntar-175125

Accepted
27/10/24

('11 Jan, 2025)

General Manager (C&D)
HPPTCL, Shimla-5

2.0.2

		Annexure-A

Name of work:Providing and fixing wooden work, painting works and other miscellanious works for the rest house of 132/220 kV GIS Substation at charor (As per justification of rates)

Sr.no.	Description of work	Awarded Amount
1	Civil works	357556
2	Electrical works	86514
	Total amount with GST	444070

General Manager (C&D)
HPPTCL Shimla-5
2.0.3

ANNEXURE-2G

H.P. Power Transmission Corporation Ltd.

(A State Govt. Undertaking)
HPPTCL Zone Kullu, (Bhunter), Distt. Kullu. (H.P). 175125.
Telefax: 01902- 265157, Email: dgmsarabai.tcl@hpmail.in
Head Office: HimfedBhawan, Panjari, Shimla – 5, www.hpptcl. com.

No. HPPTCL/SMS/DB-09(i)/2025-26 — 409 — 12 — Dated: 03/06/2025

To

M/S Ranjeet Thakur
Village Takoli
PO Panarsa Tehsil Aut
Distt Mandi, H.P.

Subject: **Notification of award against Tender No.: HPPTCL/PIU SARABAI /Tenders/SMS/2025-26/05 "Balance works of providing and fixing wooden work, painting works and other miscellaneous works for the rest house of 132/220 kV GIS Substation at Charor".**

References:

i. Your Bid opened on dated: 13/05/2025

This is to notify you that your Bid opened on dated 13/05/2025, for execution of **"Balance works of providing and fixing wooden work, painting works and other miscellaneous works for the rest house of 132/220 kV GIS Substation at Charor"** for the contract price in the aggregate amounting to Rs. **3,03,424/-** including GST @ 18% as corrected and modified in accordance with the Instructions to Bidders and as per the correspondence under reference exchanged with you , is hereby accepted by our agency.

The scope of work covered under the letter of acceptance, shall be as per Technical specifications, Bill of material and directions issued by the Engineer in charge.

The scope of Contract and prices shall be as per Appendix -I.

The quantities mentioned in enclosed appendices are tentative and exact quantity shall be finalized during detailed engineering /measurement and in the event of variation, the contract prices shall be adjusted accordingly. The payment in respect of items for which unit rates have been mentioned shall be made on the basis of actual measurement at site.

The prices mentioned in enclosed appendices shall be FIXED. The completion period shall be 1 month (30 days) from date of start of work.

General Manager (C&D)
HPPTCL, Shimla-5

2 E 1

The date of start shall be the effective date which shall be notified upon successful signing of the contract agreement.

You are requested to sign the contract agreement within 30 days from issue of the notification of award as per conditions of the tender documents.

You are requested to furnish the Performance Security @ 10% of the contract price in the shape of bank guarantee issued by a nationalized/scheduled bank or demand draft in favor of Senior Manager (Projects), PIU Sarabai within 30 days of issue on the notification of award.

The date of start shall be the effective date which shall be notified upon successful signing of the contract agreement.

You are requested to sign the contract agreement within 30 days from issue of the notification of award as per conditions of the tender documents.

A copy of LOA duly signed and marked accepted may please be returned to this office.

ATTACHMENT: Appendix 1 (Award)

Yours Sincerely,

o/c

Senior Manager (Projects),
HPPTCL PIU Sarabai,
Bhuntar-175125

Copy To:

1. The GM (Projects), HPPTCL, Himfed Bhawan, Shimla-05 for information please.
2. The DGM (Projects), HPPTCL, Kullu Zone, Bhuntar Kullu H.P.
3. The DGM (Finance), HPPTCL, Himfed Bhawan, Shimla -05 for information please.

o/c

Senior Manager (Projects),
HPPTCL PIU Sarabai,
Bhuntar-175125

General Manager (C&D)
HPPTCL, Shimla-5

2.2.2

Appendix-1

Tender Inviting Authority: Senior Manager (projects),HPPTCL,PIU Sarabai,Bhuntar,Distt Kullu.

Name of the work:Balance works of providing and fixing wooden work, painting works and other miscellaneous works for the rest house of 132/220 kV GIS Substation at Charor

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Unit rate	Amount Without GST	GST percentage	GST Amount	Total amount with GST
1.00	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with bold fast lugs or with dash fasteners of required dia & length. (In first class deodar wood)	.02	cum	180000	3600	18%	648	4248
2.00	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, complete in all respect (in first class deodar wood)	12.30	sqm	2500	30900	18%	5562	36462
3.00	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.	3.60	sqm	2800	10080	18%	1814	11894
4.00	Providing and fixing fittings for doors and windows	1.00	LOT	10000	10000	18%	1800	11800
5.00	Providing and fixing 19mm thick Commercial plyBoard water proof shutters for up boards c/c fixing with nickel plated piano hinges with screws etc complete)	7.68	sqm	2500	19200	18%	3456	22656
6.00	Fixing 19mm thick Commercial plyBoard water proof shutters for up boards c/c fixing with nickel plated piano hinges with screws etc complete)	3.30	sqm	1200	3960	18%	713	4673
7.00	Providing and fixing 19mm thick water proof commercial board in shelves/box for cup board with butt joints & fixing with nails & screws etc complete)	8.25	sqm	3200	26400	18%	4752	31152
8.00	Fixing 19mm thick water proof commercial board in shelves/box for cup board with butt joints & fixing with nails & screws etc complete)	39.87	sqm	1100	43857	18%	7894	51751
9.00	Providing and fixing 1.00mm thick coloured or plain lamination sheet (sunmica) on boards/ply wood sheets with approved adhesive and nails etc complete.	25.15	sqm	300	7545	18%	1358	8903
10.00	Fixing 1.00mm thick coloured or plain lamination sheet (sunmica) on boards/ply wood sheets with approved adhesive and nails etc complete.	24.65	sqm	200	4930	18%	887	5817
11.00	Demolishing brick work manually/ by mechanical means including stackingof serviceable material and disposal of unserviceable material within 50metres lead as per direction of Engineer-in charge	.50	CUM	5000	2500	18%	450	2950
12.00	Melamine polishing on wood work (one or more coat).	21.16	SQM	880	18621	18%	3352	21973
13.00	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade for woodwork.	39.54	SQM	250	9885	18%	1779	11664
14.00	Super Structure above Plinth level upto all heights in Cement Mortar 1: 4 (1 Cement: 4 Sand) First Class Bricks	.50	CUM	9000	4500	18%	810	5310
15.00	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade (two or more coats) over and including water thinnable primer/coat with coltsfoot primer	10.44	SQM	110	2138	18%	385	2523
16.00	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	10.44	SQM	130	2527	18%	455	2982
17.00	Glazing with glass pane of 5.50 mm thickness (weight not less than 13.75 Kg / Sqm) double Toughened glass for AC Room	4.00	SQM	480	1920	18%	346	2266
18.00	Providing and fixing jali on wooden doors and window	7.88	SQM	200	1576	18%	284	1860

General Manager (C&D)
HPPTCL, Shimla-5

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19.00	Providing and Installation of exhaust fan (200 mm) in the existing opening, including making good the damage, connection, testing, commissioning etc. as required	8.00	Nos	1400	11200	18%	2016	13216
20.00	Providing and fixing of wall mounted fans in CRB	10.00	Nos	2200	22000	18%	3960	25960
21.00	Providing and fixing of wall mounted bedside lamp	4.00	Nos	1500	6000	18%	1080	7080
22.00	Providing and installation of 3 pin 5/6 amps modular socket outlet, ISI marked	10.00	Nos	100	1000	18%	180	1180
23.00	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq mm FRLS PVC insulated copper conductor single core cable etc. as required.	32.00	Points	400	12800	18%	2304	15104
	Total in Figures				257139		46285	303424

General Manager (C&D)
HPPTCL, Shimla-5

2.5.4

ANNEXURE-2F

H.P. Power Transmission Corporation Ltd.
(A State Govt. Undertaking)
Division Sarabai, Bhuntar, Distt. Kullu. (H.P). 175125.
Email: smssarabai@hpptcl.in,
Head Office: Himfed Building, Panjari, Shimla-171005, www.hpptcl.com
CIN: U40101HP2008SGC030950, GSTIN: 02AACCH1548M1ZP

No. HPPTCL/SMS/DB-09(i)/2025-26 – 2 – 8 Dated 02-04-2025

To

Shri Yashpal Acharya,
Village Haripur, Ward No.5,
Tehsil Manali,H.P.
Pincode: 175136.

Subject: Termination for the work of **"Providing and Fixing of Doors Windows, Cupboards and associated Electrical works at Rest Camp of 132/220 kV GIS Substation Charor".**

Ref:
HPPTCL/SMS/DB-13/2023-24/1435-37 dated 28/10/2024
HPPTCL/SMS/DB-09(i)/2024-25-1687 dated 20/12/2024
HPPTCL/SMS/DB-09(i)/2024-25/1775 dated 09/01/2025
HPPTCL/SMS/DB-09(i)/2024-25/1987 dated 24/01/2025
HPPTCL/SMS/DB-09(i)/2024-25/2197-98 dated 24/02/2025

Sir,

With respect to subject cited matter and letters referred above you had been time and again directed to complete the work for **"Providing and Fixing of Doors Windows, Cupboards and associated Electrical works at Rest Camp of 132/220 kV GIS Substation Charor"** in stipulated time or extended time as the case may be.

As you have delayed the execution of the aforesaid work and as per the opinion of the undersigned, the Engineer-in-charge (which is final binding), you have already failed to complete the work in stipulated time or extended time, therefore the undersigned for the aforesaid work hereby:

1. Rescind the work as aforesaid upon which your security deposit stands absolutely forfeited to the HPPTCL.

2. Take out such part of work out of your hand, as remains unexecuted for giving it to another contractor to complete the same in which case any expenses which may be incurred in excess of the sum which would have been paid by you if the whole work had been executed by you in terms of agreement (the amount of excess certified in writing by the Engineer-in-charge shall be final and conclusive) shall be borne and paid by you to HPPTCL under this contract or from security deposit without prejudice to right to HPPTCL.

3. Debar you to participate in any tender in PIU Sarabai of HPPTCL of three months.

You are hereby served with a notice to the effect that the work executed by you will be measured up on for which you are asked to attend the joint measurement on **10/04/2025** failing which the work will be measured by the department unilaterally in your absence and result of measurement shall be final and will be a binding on you.

Er. Lokesh Kumar
Sr. Manager (Projects)
HPPTCL, PIU Sarabai,
Bhuntar, Kullu, (H.P.)

1.7.0

General Manager (C&D)
HPPTCL, Shimla-5

2F-1

Copy to the following for information and necessary action please: -

1. The General Manager (Projects), HPPTCL, Himfed Building, Panjari, Shimla-05.
2. The DGM (Projects), HPPTCL, Zone Kullu at Sarabai, Bhuntar, Kullu.
3. The DGM (Finance) HPPTCL, Himfed Building, Panjari, Shimla-05.
4. Assistant Engineer (Civil/Electrical) Charor substation/Account Branch of this office.

02/01/2024.

Sr. Manager (Projects)
HPPTCL, PIU Sarabai,
Bhuntar, Distt. Kullu (H.P)

Er Jai please for further information and action in matter please. Also file the same in OB-07(i) (Tender Elle Sub Volume)

02/01/2024.

General Manager (C&D)
HPPTCL, Shimla-5

2F-2

ANNEXURE-2G

1/53

H.P Power Transmission Corporation Limited

(A State Govt. Undertaking)
Regd. Office: Himfed Bhawan, New ISBT Road, Panjari, Shimla-171005
Phone-0177-2831283, 2831284 FAX:-0177-2831284
Web:-www.hpptcl.com
(CIN): U40101HP2008SGC030950 (GSTIN):02AACCH1548M1ZP

No. HPPTCL/Contracts/KfW/33/220 kV Add Charor S/Stn/ 2018-19-/4928 21st March, 2019

To

Mr. Patrick Hamann
Procurement Manager, South and East Asia
KfW Bankengruppe, Palmengartenstrasse 5-9,
60325 Frankfurt, Germany

Subject: **German Financial Cooperation with India** – Green Energy Corridors, Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh (India)" on Turnkey Basis; **Financial Bid evaluation report thereof.**

Reference: KfW's No Objection Certificate to TBER dated 18/01/2019.

Dear Sir,

This is reference to your letter quoted under reference vide which you have approved the recommendations made in the Bid Evaluation Report (Technical Proposals) of the above Bid **No. 17-SS/KFW/HPPTCL/33/220 KV Add Charor S/Stn** in accordance with the Single –Stage, Two Envelope bidding procedure of the KfW, the Price Proposals of the only Responsive Bidder was opened publically on **23.01.2019**. In compliance with the requirements of the Loan Agreement, we are submitting herewith Bid Evaluation Report (Price Proposals) for the KfW's review and approval. FBER carries the consent dated 27/02/2019 of our Project Implementation Consultant i.e. M/s AECOM Asia Limited (FBER Pg No 51)

It is also to submit that Price Quoted by evaluated bidder is 16.05% higher than put to tender cost but are within total DPR cost. Since the firm is already executing the ADB funded portion of this substation and also is single bidder for this additional work as such having inherent advantages to the bidder thereby reducing the competition. Accordingly the firm has quoted the rates on higher side and in some of the items the quoted rates are higher than 50 % in comparison to the ADB portion of the project being executed by the same agency.

In view of this, it is requested to allow negotiation with the bidder. The comparison sheet containing the rates submitted by M/s Kanohar Electricals Limited for 220/132kV Charor Substation (ADB funded) and 220/33kV Additional Charor is also annexed herewith with percentage (%) hike for your review. It is evident from the comparison sheet that there is 67.48% hike in GIS equipments, 9.44% hike in Power & Station Transformer and 37.69% hike in other main equipments (Comparison Sheet Attached in FBER). So it is requested that KfW may allow negotiation with the firm as a special case or suggest alternative option please, since this is a single tender submitted by the firm.

Your early reply to this matter will be appreciated.

Yours Faithfully,

Er. K. N. Sharma
DGM (Contracts)

Attachment: **Price Bid evaluation Report**

General Manager: (C&D)
HPPTCL, Shimla-5

2-Cal

H. P. POWER TRANSMISSION CORPORATION LTD.

BID EVALUATION REPORT

(PRICE PROPOSAL)

FOR

ADDITIONAL 33/220 kV , 100MVA TRANSFORMER WITH ASSOCIATED GIS AT 132/220KV *SUB* STATION AT CHAROR OF HIMACHAL PRADESH (INDIA)

BID No.: 17-SS/KFW/HPPTCL/33/220 KV Additional Charor Substation

KfW Loan under German Financial Cooperation with India

Green Energy Corridors

March, 2019

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General Manager (C&D)
HPPTCL, Shimla-5

2.G.2

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General Manager: (C&D)
HPPTCL, Shimla-5

2.9.3

Financial Bid Evaluation

1 Introduction

1. General

1.1 H. P. Power Transmission Corporation Limited (HPPTCL) has received a Loan from KfW bank under Green Energy Corridors Scheme of Govt. of India for development of Intra State Transmission System in Himachal Pradesh, India. It is intended that part of the proceeds of this Loan be used for eligible payments for the contract named "Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh (India)" on Turnkey Basis, for which these Bids were invited. Single - Stage: Two – Envelopes Bidding Procedure (Electronic Bidding Mode) has been followed for this procurement.

The Invitation for Bids was floated on the 10/10/2018 for publication in two number English Language Newspapers viz 'Times of India' & 'The Tribune' and one edition of Hindi language newspaper 'Amar Ujala' and same were published on 13/10/2018 after obtaining the KfW approval of Draft Bidding Document via e-mail dated 28th September 2018. The Invitation for Bids was also posted on HPPTCL's Website and GTAI's website

Out of two (2) Firms, who had purchased the Bidding Documents, only one (1) Bidder as mentioned below submitted their proposal on the due date i.e. 17.12.2018 (online) & 18.12.2018 (Hard Copy) ;-

1. M/s Kanohar Electricals Limited in Collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan)

Technical Bids were opened at 15:00 Hrs on 18/12/2018 in the office of the General Manager (C & D), HPPTCL, Himfed Bhawa, Panjari, Shimla – 171005.

In accordance with the Single - Stage: Two – Envelopes Bidding Procedure, the Technical Proposal of the M/S Kanohar Electricals Limited in Collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan) was evaluated and the Technical Bid Evaluation Report (TBER) dated 16.01.2019 was submitted to KfW with the recommendations to declare the M/S Kanohar Electricals Limited in Collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan) as **Technically Responsive** and open the Price proposal of responsive bidder.

KfW vide Email dated **18.01.2019 (Annexure-1)** approved the above recommendation.

The responsive bidder was informed through email & via E-Bidding platform about the decision and the date of opening of price proposals which was scheduled for **23.01.2019** at 15:00 Hrs.

1.2 Opening of Price Proposal

The Price Proposals were opened at 15:00 Hrs. on 23/01/2019 as scheduled, in the Chamber of General Manager (C & D), HPPTCL by the Bid Opening Committee.

The Bid Opening Committee examined the Price Proposal of Sole Technically

4

General Manager (C&D)
HPPTCL, Shimla-5

Responsive Bidder. Thereafter, the Prices and Discounts offered was announced and recorded.

The Record of Bid Opening was prepared soon after the Bids were announced and same is also submitted to KfW via email dated 23/01/2019.**(Annexure-2)**

1.3 Currency For Comparison

The Currency for Bid Comparison is Indian Rupees. The bidder has quoted all prices in INR.

1.4 Bid Evaluation Committee

A Tender Evaluation Committee comprising following five Senior officers of HPPTCL was constituted vide Office Order No.: HPPTCL /DIR(P&C):-11974-86 dated 31.12.2018 and information included in **Annexure - 3.**

1. General Manager (C&D)	Chairman
2. DGM & Head, Trans. Designs	Member
3. DGM (Finance)	Member
4. DGM (Projects)	Member
5. DGM (Contracts)	Member

2 Examination of Price Proposals

The Price Proposals submitted were first examined to ensure that the Bidders had submitted the Priced Bill of Quantities and whether these documents had been prepared properly. Documents of M/s Kanohar Electricals Limited were found to be in order.

2.1 Arithmetic Check, Corrections and Conversion to Local Currency

Each Priced Bill of Quantities of the Bidders was checked for Arithmetic Errors. The errors were corrected in accordance with the stipulations in the Bidding Documents (ITB Clause 36). These Corrections, none of which were substantial, were tabulated and are shown in **Schedule- Arithmetic Errors**. Same are further reflected in **Table-1 Summary of corrected Bid Prices.**

3 Evaluation of Price Proposals

3.1 Key Findings in Evaluation of Bids

a) M/S Kanohar Electricals Limited in collaboration with M/S Chung Hsin Electric and Machinery Mfg Corp, Taiwan (Bidder-1) (L-1)

(i) There were no deviations to payment terms, liquidated damages provisions and performance security. Thus, no price adjustments were required in this respect.

(ii) In case of Transformers, the capitalization charges are required to be taken into account for Price Bid comparison as per Cl. No. 1.2.8 (Performance Guarantees) of Section-3 - Evaluation and Qualification Criteria Vol-I Commercial Bid Document. Accordingly, the bid of the firm has been loaded with the capitalization charges for the losses quoted by the firm in their technical proposal. The amount of capitalization charges has been indicated in Schedule-G. Loss.

(iii) Schedule-1 "Supply from Abroad" and Schedule- 8 "Type Test Charges" are Not Applicable. Schedule -3 "Design Services" charges are quoted extra.

(iv) For Schedule-4, "Transportation" charges are not quoted extra and assumed to be

General Manager (C&D)
HPPTCL, Shimla-5

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inclusive in Schedule -2 "Supply within India".

(v) GST @18% is quoted in the Schedule-9 "Taxes & Duties" for Schedule-2, Schedule-3, Schedule-5, and Schedule-6.

(vi) The total evaluated Bid price of the Bidder (**L-1**) is ***INR 41, 65, 49,041.1*** *(i.e. 30, 47, 45,853.5 + 11, 18, 03,187.6) with Capitalization of Transformers Guarantee Losses and without GST.*

3.2 Determination of Evaluated Bid Price

The Bid Prices as discussed in paragraph 3.1 above are summarized in Table-1, Evaluated Bid Price.

Evaluated Bid Price of L-1 Bidder M/S Kanohar Electricals Limited based on above recommendations works out to be ***INR 41,65,49,041.1*** including loadings as explained in Para 3.1 (ii).

3.3 Reasonableness of Price of The lowest Evaluated Bid:-

The total DPR cost of the project amounting to **INR 40 Crore** contained a provision of **INR 30.99 Crore** for supply and erection of equipment for which the bids are invited. M/S Kanohar Electricals Limited at the corrected Bid price of **INR 35, 96, 00,107** (excluding capitalisation charges for Transformer losses) is approximately **16.05 % higher than** Executing Agency's estimate of **INR 30.99 Crores.**

Hence, Price Quoted by evaluated bidder is 16.05% higher than estimated cost, so HPPTCL requesting KfW either for negotiation with the firm or permission to award, since the firm is already executing the ADB funded portion of this substation and also is single bidder for this additional work and having inherent advantages to the bidder thus reducing the competition.

In view of HPPTCL, negotiation is required with the bidder.

4 Bid Validity

The bids validity is 240 day from the date of opening of bid i.e. up-to ***15/08/2019*** and validity of the Bid Security is 28 days beyond the original bid validity period i.e. ***12/09/2019*** same was found to be in order.

5 Detail of Schedule Wise Amount

On the basis of the systematic evaluation of Bids, which had been carried out in accordance with the provisions of the Bidding Documents, it is concluded that M/S Kanohar Electricals Limited has quoted Substantially Responsive Bids. The detail of amount quoted by bidder in each schedule is given in Grand Summary (**Schedule-7**). The Contract Amount after considering all the points as mentioned in 3.1 to 3.3 above shall be as under:-

General Manager (C&D)
HPPTCL, Shimla-5

2.9.6

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Sr. No.	Schedule No.	Title	Amount (in INR)
1	1	Plant and Mandatory Spare Parts Supplied from Abroad	0.00
2	2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country	275,292,153.50
3	3	Design Services	50,000.00
4	4	Local transportation including port clearance and port charges and Inland Insurance Services	0.00
5	5	Installation and other Services including civil works	28,953,700.00
6	6	Training Changes (in India & Abroad)	450,000.00
7		**Sub Total for Evaluation of Bids (1:6)**	**304,745,853.50**
8	9	Taxes and Duties	54,854,253.63
9		**GRAND TOTAL (7+8)**	**359,600,107.13**
10		Discount Offered by Firm (As per Letter of Price Bid)	0.00
11		**Net offered Price (9-10)**	**359,600,107.13**
12		Arithmetic Error on the account of taxes	0.00
13		**Evaluated Bid Price (11+12)**	**359,600,107.13**
14	**Sch. G Loss**	Capitalization of Transformers Guarantee losses	111,803,187.60
15		**Total Evaluated Price in INR after loading of Transformer Guaranteed losses (13+14)**	**471,403,294.73**

The prices shall be FIXED for a period of 18 months from effectiveness of the contract. Thereafter price variation will be according to Appendix-2 "**PRICE ADJUSTMENT**" of Section -9 "Contract Forms" Volume-I Commercial Bid Document.

6 Clarifications & Discussions

The TEC pointed that The Prices quoted by bidder are 16.05% higher than the cost put to tender particularly price quoted for GIS modules and Power Transformers but overall price quoted is within the DPR Cost. The Tender evaluation committee recommended seeking permission from KfW either for negotiation with the firm or permission to award, since the firm is already executing the ADB funded portion of this substation and also is single bidder for this additional work and having inherent advantages to the bidder. The Committee's decisions have been made on the basis of unanimous views. Minutes of Meeting are enclosed as **Annexure-4.**

General Manager (C&D)
HPPTCL, Shimla-5

2.6.7

7 Conclusions and Recommendations

On the basis of discussion brought out in preceding paras and evaluation criteria, M/S Kanohar Electricals Limited has been found to be successful bidder for the Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh, India. It is, therefore, concluded that :-

The Prices quoted by bidder are 16.05% higher than the cost put to tender particularly price quoted for GIS modules and Power Transformers but overall price quoted is within the DPR Cost. HPPTCL recommended seeking permission from KfW either for negotiation with the firm or permission to award, since the firm is single bidder for this additional work and having inherent advantages to the bidder. Minutes of Meeting are enclosed as **Annexure-4.**

HPPTCL request KfW to approve the above recommendations of Negotiation with Firm and notifies its approval at the earliest so as to enable HPPTCL to negotiate with M/s Kanohar Electricals Limited.

DGM (Contracts)
HPPTCL, Shimla-05

General Manager (C&D)
HPPTCL, Shimla-5

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APPENDIX-2

Basic Data Sheet

1	Project Title	**German Financial Cooperation with India –Green Energy Corridors**
2	Loan Number	**Intrastate Transmission System in Himachal Pradesh under Green Energy Corridors (GEC)**
3	Bid Title	"Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh (India)"
4	Bid Number	**17-SS/KfW/HPPTCL/33/220kV GIS Additional Charor Substation**
5	Estimated Value	*INR 309.9 Millions*
6	Date of Invitation for Bids Issued/ Date of Publication	10/10/2018
7	Mode of Procurement	*International Competitive Bidding; Single - Stage, Two - Envelope Bidding Procedure*
8	Bid Closing Date and Time	17:00 Hrs (online) on 17.12.2018 & 13:00 Hrs (Hard Copy) on 18.12.2018
9	Bid Opening Date and Time	15:00 Hrs on 18.12.2018
10	Number of Bids Received	*One(1) Bid*
11	Bid Validity Expires	***15th Aug, 2019***
12	Date for Determining Applicable Exchange Rates	*18.11.2018 (ITB-Section -2, Clause 37.1)*

General Manager (C&D)
HPPTCL, Shimla-5

2.9.9

ANNEXURE-1

10/53

KFW

Himachal Pradesh Power Transmission Corp. Ltd.
Mr. Aman Kumar, Senior Manager (Contracts)
smcontracts3@hpptcl.in

Cc:
AECOM Asia Company Ltd.
Mr. Sat Paul Khatta
SatPaul.Khatta@aecom.com

Business area
KfW Entwicklungsbank

Hamann, Patrick (LEB5)
N/Ref.: HmP
Phone: +49 69 7431 - 2970
Fax: +49 69 7431 - 2944
Patrick.Hamann@kfw.de

Date: 18.01.2019

» **LEB2** **German Financial Cooperation with India**
Green Energy Corridors
Project-No.: 34868
BMZ-No.: 201568120
Procurement No.: 503201

No Objection to Technical Bid Evaluation Report for Package 17-SS/KFW/HPPTCL/33/220kV Addl. Charor S/Stn

Dear Sir,

Thank you for submitting the technical bid evaluation report for the above-referenced tender package as well as additional information on pre-bid clarifications via e-mail dated 16 and 18 January 2019, respectively.

We would like to confirm that we have no objections to the evaluation report. Please proceed with the opening and evaluation of the financial bids.

Yours sincerely
KfW

Patrick Hamann
Procurement Manager

Jann Bode
Procurement Manager

General Manager (C&D)
HPPTCL, Shimla-5

2.5.19

ANNEXURE-2

11/53

HIMACHAL PRADESH POWER TRANSMISSION CORPORATION LTD.

HPPTCL

Web: - www.hpptcl.com

(A State Govt Undertaking)
Regd. Office: HimfedBhawan, New ISBT Road,Panjari, Shimla-171005
Ph.:- 0177-2831283, 2831284 FAX:-0177-2831284
(CIN):U40101HP2006SGC030950
(GSTIN):02AACCH1548M1ZP

RECORD OF BID OPENING (PART-2)

Loan No.	Intrastate Transmission System in Himachal Pradesh under Green Energy Corridors (GEC)	Project Title:	Green Energy Corridors, Intra State Transmission System in Himachal Pradesh
Bid No.	17-SS/KfW/HPPTCL/33/220kV GIS Additional Charor Substation	Bid Title:	"Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh (India)"
Place:	HPPTCL, Corporate Office, Shimla	Date:	***23.01.2019 at 15:00 Hrs.***

1. The following Bids were received electronically by the closing time i.e. 17:00 Hrs. on ***17.12.2018*** and Hard Copies of same up-to 13:00 Hrs. ***18.12.2018***. Technical Bids were opened electronically and read at 15:00 Hrs. on ***18.12.2018.***

   a.) ***M/s Kanohar Electrical Ltd. in collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp., Taiwan.***

2. Technical bids were evaluated and the sole bidder ***M/s Kanohar Electrical Ltd. in collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp., Taiwan*** is declared as Techno-Commercially responsive after technical bid evaluation.

3. Technical bid evaluation report was submitted to KfW on 16th January 2019 for approval.

4. The KfW after reviewing the TBER conveyed their approval on **18.01.2019** and allowed opening the financial Bid of ***M/s Kanohar Electrical Ltd. in collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp., Taiwan***

5. The date of opening of Price Bids was fixed on **23.01.2019 at 15.00 Hrs** and same is conveyed to the firm through email and via addendum on E-procurement portal.

6. DGM (Design) and DGM (Finance) could not attend the meeting due to pre-occupation.

23/1 23/01/19 23/1/19

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General Manager (C&D)
HPPTCL, Shimla-5

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7. Following bidder's representatives attended the public opening of bids (Financial Part) and a copy of the attendance sheet is attached as an annexure of this record.

Sr. No.	Name	Designation	Bidding Company Represented
1.	——	——	M/s Kanohar Electrical Ltd. in collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp., Taiwan

8. The Price Bid of only responsive bidder was opened electronically on dated **23.01.2019 at 15.00 Hrs** in the presence of representatives of the Firms and the Quoted Price for the complete package is as under:-

Sr. No.	Bidder's Name & Address	Quoted Price	Discount
1.	*M/s Kanohar Electrical Ltd. in collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp., Taiwan*	INR 3047 45653.5 + GST 548 54 253.63	—

9. Reading and signing of documents ended at 3:25 PM.

23/1/19
(Er. D. P. Singh)
DGM (Projects)
HPPTCL, Shimla

23/01/19
(Er. K. N. Sharma)
DGM (Contracts)
HPPTCL, Shimla

(Er. Kaushlesh Kapoor)
General Manager (C&D)
HPPTCL, Shimla

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General Manager: (C&D)
HPPTCL, Shimla-5

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HIMACHAL PRADESH POWER TRANSMISSION CORPORATION LTD.

(A State Govt. Undertaking)
Regd. Office: HimfedBhawan, New ISBT Road,Panjari, Shimla-171005
Ph.:- 0177-2831283, 2831284 FAX:-0177-2831284
(CIN):U40101HP2006SGC030950
(GSTIN):02AACCH1540M1ZP

Web: - www.hpptcl.com

ATTENDANCE SHEET FOR PRICE BID OPENING

Loan No.	Intrastate Transmission System in Himachal Pradesh under Green Energy Corridors (GEC)	Project Title:	Green Energy Corridors, Intra State Transmission System in Himachal Pradesh
Bid No.	17-SS/KfW/HPPTCL/33/220kV GIS Additional Charor Substation	Bid Title:	"Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh (India)"
Place:	HPPTCL, Corporate Office, Shimla	Date:	***23.01.2019 at 15:00 Hrs.***

The Following Bidders representatives attended the Price-Bid meeting.

Sr. No.	Bidders	Representative		Signature
		Name	Designation	
1	***M/s Kanohar Electrical Ltd. in collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp., Taiwan***	—	—	—

23/1

23/1/19

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General Manager: (C&D)
HPPTCL, Shimla-5

29.1.19

ANNEXURE - 3

14/53

H.P.POWER TRANSMISSION CORPORATION LIMITED
(A State Government Undertaking)
Regd. Office: HIMFED BHAWAN,PANJARI, TUTIKANDI SHIMLA-5.,
(CIN):U40101HP2008SGC030950
Ph: 0177-2832415, FAX: 0177-2632384 Web: hpptcl.gov.in

No. HPPTCL/DIR(P&C):- 11975-82 Dated: 31-12-2018

OFFICE ORDER

In partial modification of this office OFFICE ORDER **No:HHPTCL/Contracts/ADB/ General/2014-15.418-25** the tender evaluation committee is hereby re constituted to open and evaluate the technical and Price Bids against all ADB / KFW Funded Tender Documents:-.

1) General Manager (C&D) HPPTCL, Shimla — Chairman
2) Dy. General Manager & Head Transmission HPPTCL, Hamirpur — Member
3) Dy. General Manager (finance) HPPTCL, Shimla — Member
4) Dy General Manager HPPTCL of concerned zone (Shimla / Kullu / Chamba) — Member
5) Dy. General Manager (Contracts) HPPTCL, Shimla. — Member

Director (Planning & Contracts)
HPPTCL, Shimla-5.

No:-HHPTCL/Contracts/ADB/General/2014-15 **Date:-**

Copy forwarded to the following

1) P.S. to the Managing Director HPPTCL, Shimla for information please.
2) Director (Projects) HPPTCL, Shimla for information please.
3) General Manager (Projects) HPPTCL, Shimla for information please.
4) All the above members for information and necessary action please.
5) Sr. Manager (Contracts-I/ II /III) HPPTCL, Shimla for information and necessary action please.

Director (Planning & Contracts)
HPPTCL, Shimla-5.

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General Manager (C&D)
HPPTCL, Shimla-5

29.14

ANNEXURE-4

HIMACHAL PRADESH POWER TRANSMISSION CORPORATION LTD.

15/53

HPPTCL
Web: - www.hppcl.com

(A State Govt. Undertaking)
Regd. Office: Himfed Bhawan, New ISBT Road,Panjari, Shimla-171005
Ph.:- 0177-2831283, 2831284 FAX:-0177-2831284
(CIN):U40101HP2008SGC030950
(GSTIN):02AACCH1548M1ZP

MOM of 1st Meeting of Tender Evaluation Committee (TEC) held on 27-02-2019 in the Office of the General Manager (C&D), HPPTCL, Himfed Bhawan, Panjari, Shimla-5.

Tender No: 17-SS/KFW/HPPTCL/33/220 KV Add Charor S/Stn

Title: **Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh (India)" on Turnkey Basis.**

1st Meeting of Tender Evaluation Committee (TEC) by HPPTCL , constituted vide this Office Order No.: HPPTCL / Dir(P&C):- 11974-86 dated 31/12/2018, for evaluating the Financial Bids of Techno-Commercially Responsive Firms mentioned below, held on 27-02-2019 in the Office of the General Manager (C& D), HPPTCL, Himfed Bhawan, Panjari, Shimla-5. The following were present:-

1. Er. Kaushlesh Kapoor, GM (C&D). —— In chair.
2. Er. K. N. Sharma, DGM (Contracts), HPPTCL, Shimla.
3. Er. Rajinder Sharma, DGM and Head, Transmission Design, HPPTCL, Hamirpur.
4. Sh. Anil Kumar Sharma, DGM (Finance), HPPTCL, Shimla.

The TEC was informed that Financial Bids of the following Techno-Commercially Responsive Bidders were opened on dated 23/1/2019.

i. ***M/S Kanohar Electricals Limited in Technical Collaboration with M/S Chung Hsin Electric and Machinery Mfg Corp, Taiwan.***

Due to pre-occupancy DGM Projects (Concerned PIU) could not attend the meeting.

The TEC examined all the price schedules and GST schedule. The Bidder wise evaluation is as under:-

1. **M/S Kanohar Electricals Limited in collaboration with M/S Chung Hsin Electric and Machinery Mfg Corp, Taiwan (Bidder-1) (L-1)**

a) DPR cost for this project was INR 40 Crore with substation cost of INR 30.99 Crore which was put to tender.
b) Discount offered by Firm as per Letter of Price Bid: NIL
c) Evaluation of the Price bid has been carried out in accordance with Clause No. 1.2.4 of Section - 3 Evaluation and Qualification Criteria. (i.e. GST will not be considered for evaluation of Bids).

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General Manager (C&D)
HPPTCL, Shimla-5

20.15

16/53

d) Quoted Price with GST and without Capitalization of Transformers Guarantee Losses is INR 35,96,00,107.13 (i.e. INR 30,47,45,853.5 + INR 5,48,54,253.63).
e) Quoted Price with Capitalization of Transformers Guarantee Losses and without GST is INR 41,65,49,041.1 (i.e. INR 30,47,45,853.5 + INR 1,11,803,187.6).

The Schedule wise evaluated Price of Bidders is as under:

Sr. No.	Schedule No.	Title	Amount (in INR)
1	1	Plant and Mandatory Spare Parts Supplied from Abroad	0.00
2	2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country	275,292,153.50
3	3	Design Services	50,000.00
4	4	Local transportation including port clearance and port charges and Inland Insurance Services	0.00
5	5	Installation and other Services including civil works	28,953,700.00
6	6	Training Changes (in India & Abroad)	450,000.00
7		**Sub Total for Evaluation of Bids (1:6)**	**304,745,853.50**
8	9	Taxes and Duties	54,854,253.63
9		**GRAND TOTAL (7+8)**	**359,600,107.13**
10		Discount Offered by Firm (As per Letter of Price Bid)	0.00
11		**Net offered Price (9-10)**	**359,600,107.13**
12		Arithmetic Error on the account of taxes	0.00
13		**Evaluated Bid Price (11+12)**	**359,600,107.13**
14	**Sch. G Loss**	Capitalization of Transformers Guarantee losses	111,803,187.60
15		**Total Evaluated Price in INR after loading of Transformer Guaranteed losses (13+14)**	**471,403,294.73**

The TEC pointed that the prices quoted by the firm are 16.05% higher than the cost put to tender particularly price quoted for GIS modules and Power Transformers but overall price quoted is within the DPR Cost. It was advised to seek permission from KfW either for negotiation with the firm or permission to award, since the firm is already executing the ADB funded portion of this substation and also is single bidder for this additional work and having inherent advantages to the bidder.

Chairman

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General Manager (C&D)
HPPTCL, Shimla-5

26/6

Chairman TEC advised DGM (Contracts) to prepare the financial bid evaluation report (FBER) on priority for obtaining approval of the competent authority before forwarding the same to KfW.

The meeting ended with a vote of thanks to and from the chair.

(Er. K. N. Sharma)
DGM (Contracts)

(Er. Rajinder Sharma) 27/9/2014
DGM & Head, Trans. Design

(Sh. Anil Kumar Sharma)
DGM (Finance)

(Er. Kaushlesh Kapoor)
General Manager (C&D)

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General Manager (C&D)
HPPTCL, Shimla-5

Table 1			
TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor S/Stn			
Evaluated Bid Price			
Name of Firm:			M/s Kanohar Electricals Limited in Collaboration with M/s Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan)
Sr. No.	Schedule No.	Title	Amount (in INR)
1	1	Plant and Mandatory Spare Parts Supplied from Abroad	0.00
2	2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country	275,292,153.50
3	3	Design Services	50,000.00
4	4	Local transportation including port clearance and port charges and Inland Insurance Services	0.00
5	5	Installation and other Services including civil works	28,953,700.00
6	6	Training Changes (in India & Abroad)	450,000.00
7		**Sub Total for Evaluation of Bids (1:6)**	**304,745,853.50**
8	9	Taxes and Duties	54,854,253.63
9		**GRAND TOTAL (7+8)**	**359,600,107.13**
10		Discount Offered by Firm (As per Letter of Price Bid)	0.00
11		**Net offered Price (9-10)**	**359,600,107.13**
12		Arithmetic Error on the account of taxes	0.00
13		**Evaluated Bid Price (11+12)**	**359,600,107.13**
14	Sch. G Loss	Capitalization of Tranformers Guarantee losses	111,803,187.60
15		**Total Evaluated Price in INR after loading of Tranformer Guaranted losses (13+14)**	**471,403,294.73**

Prepared by:-
Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Checked by:-
Er. Aman Kumar
(Contract)
HPPTCL, Shimla-5

Verified by:-
Er. K.N. Sharma
DGM (Contract)
HPPTCL., Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

Table 2				
TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor S/Stn				
Correction of Arithmetic Error				
Name of Firm:	BIDDERS PRICE AT OPENING	CORRECTIONS	CORRECTED BID PRICE	Arthmetic Error
	INR	INR	INR	
M/s Kanohar Electricals Limited in Collaboration with M/s Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan)	359,600,107.13	0	359,600,107.13	NIL

Prepared by:-
Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Checked by:-
Er. Amar [illegible]
Sr. Manager (Contract)
HPPTCL, Shimla-5

Verified by:-
Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

2.9.19

Supply - Abstract 20/53

TENDER DOCUMENT No. : T- 65 / 64 kV / HPPTCL / 2022 dtd Additional Chief Engg.

PLANT AND MANDATORY SPARE PARTS SUPPLIED FROM ABROAD

SCHEDULES OF QTY AND PRICES

Name of Firm: KANOHAR ELECTRICALS LIMITED

Item No	Description of Equipment/Material	Unit	Qty	Country of Origin	Unit Price (CIP)		Total Price (CIP)		Goods and Service Tax			Total Amount including GST (INR)	Total Amount including GST (USD)	CIP to Port Cost of Currency for payment	Remarks
					Local Currency (INR)	Foreign Currency (USD)	Local Currency (INR)	Foreign Currency (USD)	Rate	Amount (INR)	Amount (USD)				
1	2	3	4	5	6	7	8=4x6	9=4x7	10	11=8x10	12=9x10	13=8+11	14=9+12	15	16
1	POWER TRANSFORMER & STATION TRANSFORMER														
	31.5/40/50 MVA, 11/220/33 kV, Dyn11 / Dyn1 / Dyn1 Single-phase Three Transformer including 220 kV and 33 kV side bushing complete with all accessories including Tube Dyn, Temperature Measuring System and fire fighting with 11% extra of with RTCC panel complete in all respects. Delivery at 11 kV shall not be Supply	NA	4	NOT APPLICABLE			0.00	0.00		0.00	0.00	0.00	0.00		
	40 MVA, 220/33 kV,	Nos	4				0.00	0.00		0.00	0.00	0.00	0.00		
	Spare 220 kV Bushing complete with Metallic Flange	Nos	4				0.00	0.00		0.00	0.00	0.00	0.00		
	Spare 33 kV Bushing complete with metallic flange complete in all respects	Nos	4				0.00	0.00		0.00	0.00	0.00	0.00		
	150 kVA, 33/0.4 kV, 3 Phase Station Auxiliary Transformer including 33 kV, 0.4 kV cable connecting cable box for 3 transformers, accessories and all as per specification of	No.	1				0.00	0.00		0.00	0.00	0.00	0.00		
2	220 KV GIS EQUIPMENT														
2.1	EXTENSION OF EXISTING BUS BAR SYSTEM (for existing bay/s)	Lot	1				0.00	0.00		0.00	0.00	0.00	0.00		
	245 kV, 4000 A, 50kA Circuit Current Rating, 2 Nos. 50 Hz electrode, SF6 gas insulated, metal enclosed, bus bars required for interconnect transformer bay modules with existing Double Main Bus System along with all required accessories as complete in all respects including respect to interconnection with existing Bus.														
2.2	TRANSFORMER CIRCUIT BAY MODULE	Nos	1				0.00	0.00		0.00	0.00	0.00	0.00		
	220 kV, 2500 A, Single Circuit Current Rating, of 50 Hz, 40 kA for 3.0 seconds, SF6 Gas insulated Transformer Circuit Breaker Bay Modules each comprising of SF6 Gas insulated Circuit Breaker (CB) 3 Nos. Current Transformers (Ratio 600-300/1-1-1-1-1A) suitable / Requirements Inter Core, 220 kV, operated with Motor, Earth Switch complete with Manual and Motor Driven Operating Mechanism, Load Current Outside (LCO), SF6 Gas Monitoring System for complete Bay, Single Phase SF6 Outdoor and Gas Insulated Terminal Connection (GIT) for interface along with all Accessories for connecting 40/50 MVA, Single-phase Power Transformers Bank with GIS via GIS through Gas insulated Interconnection Pipe and Accessories etc. complete in all respects.														
2.3	245 KV BUS/ARM BUS BAY MODULE FOR SPARE TRANSFORMER	Set	1				0.00	0.00		0.00	0.00	0.00	0.00		
	245 kV, Single Phase, 2500 A, 50 kA for 3.0 seconds, Auxiliary Bus Bar Enclosure running across the length of the Switchgear to interconnect the Spare Unit of 110/33/33 kV, Single Phase Power Transformers Bank with 220 kV GIS Transformer Bay Modules through GIS Duct having Single Phase 2500 A, SF6 Gas Breaker - single phase Current Transformers (Ratio 600 - 300/1-1-1-1-1A) - Single Pole operated 2000 A Safety Grounding Switches complete with Manual and Motor Driven Operating Mechanism, Load Current Outside (LCO), SF6 Gas Monitoring System for complete Bay, Single Phase SF6 Outdoor and Gas Insulated Terminal Connection (GIT) for interface along with all Accessories for connecting 40/50 MVA, Single-phase Power Transformers Bank with GIS via GIS through Gas insulated interconnection Pipe and Accessories etc. complete in all respects.														
3	33 kV GIS EQUIPMENT														
3.1	BUS BARS MODULE	Nos	2				0.00	0.00		0.00	0.00	0.00	0.00		
	40 kV, 2500 A, Short Circuit Current Rating of 31.5 kA, for 3.0 seconds, 3 single phase insulated, one SF6 gas insulated, metal enclosed bus bars, each enclosed in one enclosures running along the length of the switchgear to interconnect each of the circuit breaker bay modules in Double Bus Bar System. Each bus bar shall be complete with Voltage Transformers (VTs) complete with isolator / interrupters, earth switches and safety grounding switch all complete with manual and motor driven operating mechanisms, LCC, GIS Duct with SF6 gas monitoring system and accessories etc. complete in all respects.														
3.2	BUS COUPLER BAY MODULE	Set	1				0.00	0.00		0.00	0.00	0.00	0.00		
	36 kV, 2500 A, Short Circuit Current Rating of 31.5 kA, for 3.0 seconds, SF6 gas insulated bus coupler bay module comprising of vacuum circuit breaker (CB) for outdoor transformer (Ratio 600-300/1-1-1-1-1A), bus bar isolator / disconnector switches, CT/PT combined, with safety grounding switches complete with manual and motor driven operating mechanism, inter circuit duct for LCC, GIS Duct with SF6 gas monitoring system and accessories etc. complete in all respects.														

Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

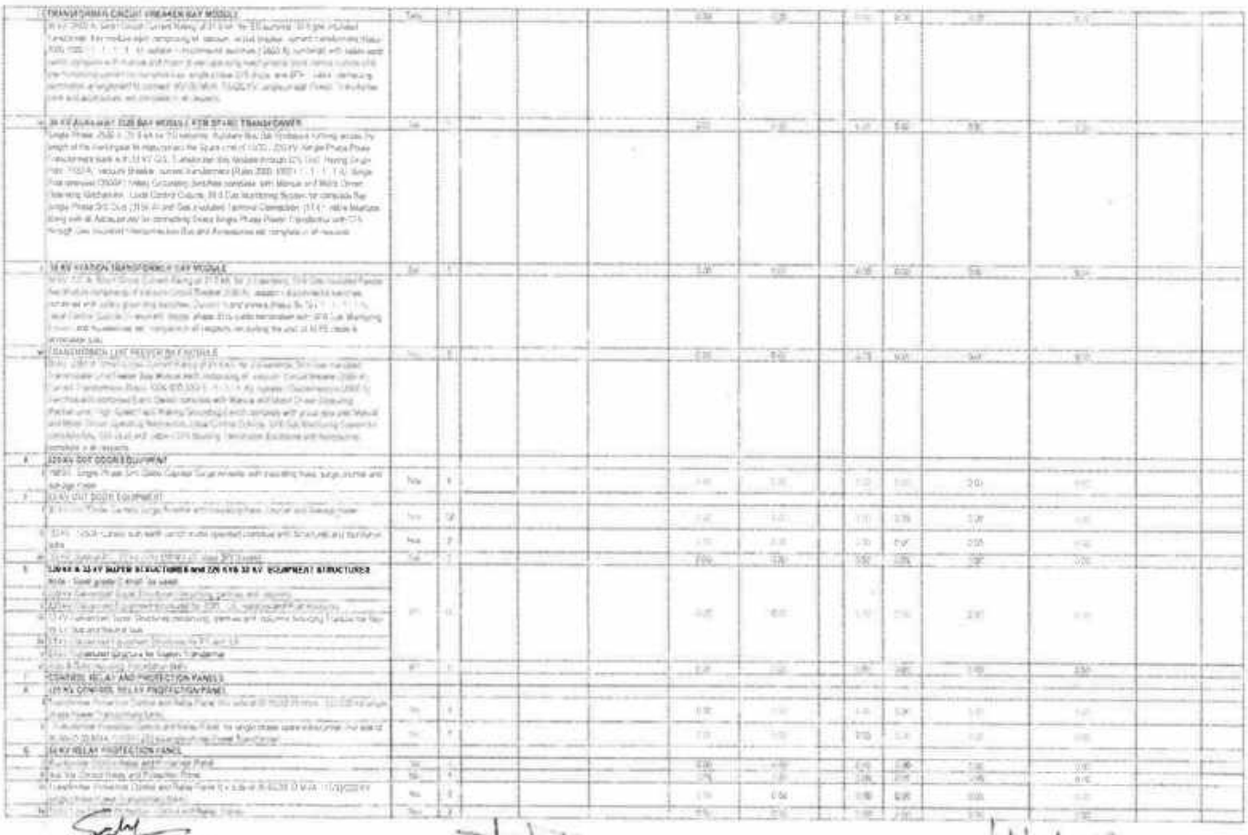
Er. Aman kumar
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. [illegible]
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

20.20

21/53



Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Sr. Manager
HPPTCL

Er. K.N. Sharma
DGM (Contracts)
HPPTCL

General Manager (C&D)
HPPTCL, Shimla-5

2.6.21

	[illegible]	No.	1				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Nr	1				0.00	0.00	0.00	0.00	0.00	0.00			
8	VENTILATION SYSTEM														
	[illegible]	Nos	1				0.00	0.00	0.00	0.00	0.00	0.00			
9	FIRE EXTINGUISHING SYSTEM (Portable Type)														
	[illegible]	Nos	1				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Nos	1				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Nos	1				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Nos	8				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Sets	1				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Nos	1				0.00	0.00	0.00	0.00	0.00	0.00			
10	EARTHING SYSTEM														
	[illegible]	Set	1				0.00	0.00	0.00	0.00	0.00	0.00			
11	LT AND CONTROL CABLES														
11.1	LT XLPE Grade PVC Insulated Aluminium Conductor Power Un-Armoured (Along with Copper Earth Wire) Cables														
	[illegible]	Nr	1.1				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Nr	1.1				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	KM	1.1				0.00	0.00	0.00	0.00	0.00	0.00			
11.2	Power Aluminium Cable (PVC) - (Un-Armoured)														
	[illegible]	Nr	1				0.00	0.00	0.00	0.00	0.00	0.00			
11.3	Control Copper Cables (PVC) - (Un-armoured)														
	[illegible]	Nr	1				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Nr	1				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Nr	1.1				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Nr	1.1				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Nr	1.1				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Nr	1				0.00	0.00	0.00	0.00	0.00	0.00			
11.4	POWER CABLES (Armoured)														
	[illegible]	Nr	0.75				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Nr	1				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Nr	1				0.00	0.00	0.00	0.00	0.00	0.00			
12	EARTH MAT & ASSOCIATED ACCESSORIES														
	[illegible]	Sq	250				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Kg	500				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Nr	2				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Kg	100				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Kg	40				0.00	0.00	0.00	0.00	0.00	0.00			
	[illegible]	Nr	100				0.00	0.00	0.00	0.00	0.00	0.00			
13	Miscellaneous Items, Earthing Material and Erection Hardware such as GPI, Insulator Bridge, 120 kN Disc Insulator, Hardware, Spacers, ACSR Weasel Conductor(s), Cable Lugs, Clamps, Connectors including Equipment Connectors, Junction Box, Earthwire, Lightning Protection, Buried Cable Trenches / Pipes for Equipment and Lighting, Cable bearing Arrangement, nuts and bolts including all incidentals etc. for completion of Scope of Work. Any Material required to commit the system proposed in the scope with closing Substation Automation System including GPS shall be in the scope of bidder.	AL	1				0.00	0.00	0.00	0.00	0.00	0.00			
14	LT SWITCHGEAR														
	[illegible]	Set	1				0.00	0.00	0.00	0.00	0.00	0.00			
15	STATUARY FORMATION														

Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Aman Kumar
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

27/56



Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Arvind Kumar
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

26.12.23

5	SPARES FOR CURRENT TRANSFORMER														
6	SPARES FOR POTENTIAL TRANSFORMER														
7	SPARES FOR SURGE ARRESTOR														
8	SPARES FOR RELAY AND PROTECTION PANELS														
9	STATION TRANSFORMER														
10	ANY OTHER ITEM WHICH IN THE OPINION OF THE BIDDER IS ESSENTIAL AND HE MAY LIKE TO QUOTE														
	TOTAL (Column # 9 & 11 to be carried forward to Schedule No. 1 - Grand Summary)														
	TOTAL (IN WORDS)														

NOTE:

1. Above quantities are tentative and may vary during detailed Engineering of Project. However, these shall be considered for Evaluation of Bid.
2. The material for the Contractor shall be made as per approved list of Material after detailed engineering in the Unit Rates quoted. Hence the Bidder is advised to quote for items that in his opinion are required in addition to above items for successful completion and commissioning of the Scope of Work.
3. Any item not quoted by the Bidder but required for successful completion and commissioning of the Scope of Work shall be deemed to have been covered in other Items Cost and the Contractor shall not be paid extra on account of same. The extra (if used) shall be payment or have been covered in other items only.

Name of Bidder	Ravine Switchgears Limited
Name	NEERAJ MITTAL
Designation	Divisional Marketing Manager

Quantity conforms in accordance with ITB Cl. for foreign content as for a maximum number of 1 item required.

COUNTRY OF ORIGIN DECLARATION FORM

Item	Description	Country

Name of Bidder	
Name	
Designation	

Prepared by:-
Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Checked by:-
Er. Aman Kumar
Sr. Manager (Contract)
HPPTCL, Shimla-5

Verified by:-
Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

Supply - India 25/53

Schedule No - 2

TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charge S/Stn

PLANT AND MANDATORY SPARE PARTS SUPPLIED FROM WITHIN THE EMPLOYER'S COUNTRY

SCHEDULES OF QTY AND PRICES

Name of Firm: KANOHAR ELECTRICALS LIMITED

Item	Description	Unit	Qty.	Item HSN Code	Unit Price (INR)	Total Price (INR)	Goods and Service Rate	Goods and Service Amount	Total Amount Including GST	Remarks
1	2	3	4	5	6	7=4x6	8	9=7x8	10=7+9	11
1	POWER TRANSFORMER & STATION TRANSFORMER									
i	26.66/33 33 MVA,11/33/220 kV, ONAN / ONAF, Single-phase Power Transformer including 220 kV and 33 kV outdoor bushing complete with all accessories including Fibre Optic Temperature Measuring System and first oil filling with 10% extra oil with RTCC panel complete in all respects. (Tertiary at 11 KV shall not be loaded)	Nos	4	8504.00	34250000.00	137000000.00	18.00%	24660000.00	161660000.00	
ii	Online DGA Set	Nos.	4	9027.00	2160000.00	8640000.00	18.00%	1555200.00	10195200.00	
iii	Insulating Oil Dry out System for Main + OLTC Tank	Nos.	1	8421.00	900000.00	3600000.00	18.00%	648000.00	4248000.00	
iv	Nitrogen injection fire prevention and extinguishing system complete in all respects	Nos.	4	8404.00	1440000.00	5760000.00	18.00%	1036800.00	6796800.00	
v	250 kVA, 33/0.4 kV, 3-Phase Station Auxiliary Transformer including 33 kV SF-6 to cable termination, cable box for LT termination, accessories and first oil filling with 10% extra oil.	No	1	8504.00	1054000.00	1054000.00	18.00%	189720.00	1243720.00	
2	220 KV GIS EQUIPMENT									
i	EXTENSION OF EXISTING BUS BAR SYSTEM (for existing both buses)	Set	1	8535.00	1000000.00	1000000.00	18.00%	180000.00	1180000.00	
	245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF6 gas insulated, metal enclosed bus bars, required to interconnect transformer bay module with existing Double Main Bus System along with all required accessories etc complete in all respects including adaptor for interconnection with existing Bus.									
ii	TRANSFORMER CIRCUIT BREAKER BAY MODULE:	Set	1	8535.00	31810000.00	31810000.00	18.00%	5725800.00	37535800.00	
	245 kV, 2000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF6 Gas Insulated Transformer Circuit Breaker Bay Module each comprising of SF6 Gas Insulated Circuit Breaker (2000 A), Current Transformers (Ratio 600 - 300 / 1 - 1 - 1 - 1 - 1 A), Isolator / Disconnector Switches (2000 A) combined with Safety Earth Switch complete with Manual and Motor Driven Operating Mechanisms, Local Control Cubicle (LCC), SF6 Gas Monitoring System for complete Bay, Single Phase SF6 Ducts and Gas Insulated Terminal Connection (SF6 / Air Interface along with all Accessories) for connecting 80/100 MVA, Single-phase Power Transformers Bank with 220 kV GIS through Gas Insulated Interconnection Bus and Accessories etc complete in all respects.									
iii	245 KV AUXILIARY BUS BAY MODULE FOR SPARE TRANSFORMER	Set	1	8535.00	19548900.00	19548900.00	18.00%	3518802.00	23067702.00	
	245 kV, Single Phase, 2000 A, 50 kA for 3.0 seconds, Auxiliary Bus Bar Enclosure running across the length of the Switchgear to interconnect the Spare Unit of 11/33 / 220 kV, Single Phase Power Transformers Bank with 220 kV GIS, Transformer Bay Module through GIS Duct having Single Phase, 2000 A, SF6 Gas Breaker, single phase Current Transformers (Ratio 600 - 300 / 1 - 1 - 1 - 1 - 1 A), Single Pole operated 2000 A Safety Grounding Switches complete with Manual and Motor Driven Operating Mechanism, Local Control Cubicle (if required), SF6 Gas Monitoring System for complete Bay, Single Phase GIS Duct, 2000 A and Gas Insulated Terminal Connection (SF6 / Air Interface along with all Accessories) for connecting Spare Single Phase Power Transformer with GIS through Gas Insulated Interconnection Bus and Accessories etc complete in all respects.									
3	33 KV GIS EQUIPMENT									
i	BUS BARS MODULE:	Sets	2	8535.00	1000000.00	2000000.00	18.00%	360000.00	2360000.00	
	36 kV, 3150 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, 3 single phase (isolated) Unit, SF6 gas insulated, metal enclosed bus bars, each enclosed in bus enclosures running along the length of the switchgear to interconnect each of the circuit breaker bay module in Double Main Bus System. Each bus bar set shall be complete with Voltage Transformers (VTs) complete with isolator / disconnector cum earth switches and safety grounding switch all complete with manual and motor driven operating mechanisms, LCC, GIS Duct with SF6 gas monitoring system and accessories etc complete in all respects									

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HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

29.25

ii	**BUS COUPLER BAY MODULE:**	Set	1	8535.00	3750000.00	3750000.00	18.00%	675000.00	4425000.00
	36 kV, 3150 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 gas insulated bus coupler bay module comprising of vacuum circuit breaker (3150 A), current transformers (Ratio 3200-1600 / 1 - 1 - 1 - 1 A), bus bar isolator / disconnector switches (3150 A) combined with safety grounding switches complete with manual and motor driven operating mechanism, local control cubicle LCC, GIS Duct with SF6 gas monitoring system and accessories etc complete in all respects.								
iii.	**TRANSFORMER CIRCUIT BREAKER BAY MODULE:**	Sets	1	8535.00	3750000.00	3750000.00	18.00%	675000.00	4425000.00
	36 kV, 2500 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 gas insulated transformer bay module each comprising of vacuum circuit breaker current transformers (Ratio: 2000-1000 / 1 - 1 - 1 - 1 A), isolator / disconnector switches (2500 A) combined with safety earth switch complete with manual and motor driven operating mechanisms, local control cubicle SF6 gas monitoring system for complete bay, single phase SF6 ducts and SF6 / cable connecting termination arrangement to connect 80/100 MVA, 33/220 KV, single phase Power Transformer bank and accessories etc complete in all respects.								
iv	**36 KV AUXILIARY BUS BAY MODULE FOR SPARE TRANSFORMER**	Set	1	**8535.00**	3750000.00	3750000.00	18.00%	675000.00	4425000.00
	Single Phase, 2500 A, 31.5 kA for 3.0 seconds, Auxiliary Bus Bar Enclosure running across the length of the Switchgear to interconnect this Spare Unit of 11/33 / 220 kV, Single Phase Power Transformers Bank with 33 kV GIS, Transformer Bay Module through GIS Duct, having Single Pole, 3150 A, vacuum Breaker, current transformers (Ratio 2000-1000 / 1 - 1 - 1 - 1 A), Single Pole operated (2500A) Safety Grounding Switches complete with Manual and Motor Driven Operating Mechanism, Local Control Cubicle, SF6 Gas Monitoring System for complete Bay, Single Phase GIS Duct (3150 A) and Gas Insulated Terminal Connection (SF6 / cable interface along with all Accessories) for connecting Spare Single Phase Power Transformer with GIS through Gas insulated interconnection Bus and Accessories etc complete in all respects.								
v	**36 KV STATION TRANSFORMER BAY MODULE**	Set	1	8535.00	3750000.00	3750000.00	**18.00%**	675000.00	**4425000.00**
	36 kV, 630 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 Gas Insulated Feeder Bay Module comprising of Vacuum Circuit Breaker (630 A), isolator / disconnector switches combined with safety grounding switches, Current Transformers (Ratio 30-15 / 1 - 1 - 1 - 1 A), Local Control Cubicle (if required), single phase SF6/ cable termination with SF6 Gas Monitoring System and Accessories etc. complete in all respects (excluding the cost of XLPE cable & termination kits).								
vi	TRANSMISSION LINE FEEDER BAY MODULE	Sets	2	**8535.00**	3750000.00	7500000.00	18.00%	1350000.00	**8850000.00**
	36 kV, 2000 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 Gas Insulated Transmission Line Feeder Bay Module each comprising of vacuum Circuit Breaker (2000 A), Current Transformers (Ratio: 1200-600-300/ 1 - 1 - 1 - 1 A), Isolator / Disconnectors (2000 A) Switches with combined Earth Switch complete with Manual and Motor Driven Operating Mechanisms, High Speed Fault Making Grounding Switch complete with group operated Manual and Motor Driven Operating Mechanism, Local Control Cubicle, SF6 Gas Monitoring System for complete Bay, GIS Duct and cable / SF6 Bushing Termination Enclosure and Accessories complete in all respects.								
4	**220 KV OUT DOOR EQUIPMENT**								
i	198 kV, Single Phase Zinc Oxide Gapless Surge Arrestor with insulating base, surge counter and leakage meter.	Nos	4	8535.00	**62500.00**	250000.00	18.00%	**45000.00**	295000.00
5	**33 KV OUT DOOR EQUIPMENT**								
i	30 kV Zinc Oxide Gapless Surge Arrestor with insulating base, counter and leakage meter.	Nos	12	8535.00	18750.00	225000.00	**18.00%**	40500.00	265500.00
ii	33 KV, 1250A isolator with earth switch motor operated complete with Structureb and foundation bolts	Nos	2	8535.00	187500.00	375000.00	18.00%	67500.00	442500.00
iii	33 kV Outdoor PT, 33 kV/√3 / 110 V / √3, class 3P) 3cores)	Set	2	8504.00	62500.00	125000.00	18.00%	22500.00	147500.00
6	**220 kV & 33 kV SUPER STRUCTURES and 220 KV& 33 KV EQUIPMENT STRUCTURES:- Note:- Steel grade C shall be used.**								

Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Aman Kumar
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

i	220 kV Galvanized Super Structures comprising gantries and columns									
ii	220 kV Galvanized Equipment structures for CVT, LA, Isolators and Post insulators	MT	40	7308.00	93750.00	3750000.00	18.00%	675000.00	4425000.00	
iii	33 kV Galvanized Super Structures comprising gantries and columns including Transformer Bay for LV Bus and Neutral bus									
iv	33 kV Galvanized Equipment Structures for PT and LA									
v	33 kV Galvanized Structure for Station Transformer									
vi	Nuts & Bolts including Foundation Bolts	MT	5	7308.00	118750.00	712500.00	18.00%	128250.00	840750.00	
7	CONTROL RELAY AND PROTECTION PANELS									
A	220 KV CONTROL RELAY PROTECTION PANEL									
i	Transformer Protection Control and Relay Panel (HV side of 26.66/33.33 MVA, 33 / 220 kV single-phase Power Transformers bank)	No	1	8537.00	1500000.00	1500000.00	18.00%	270000.00	1770000.00	
ii	Transformer Protection Control and Relay Panel for single phase spare transformer (HV side of 26.66/33.33 MVA, 11/33 / 220 kVsingle-phase Power Transformer)	No	1	8537.00	1500000.00	1500000.00	18.00%	270000.00	1770000.00	
B	33 KV RELAY PROTECTION PANEL									
i	Bus coupler Control Relay and Protection Panel	No	1	8537.00	625000.00	625000.00	18.00%	112500.00	737500.00	
ii	Bus Bar Control Relay and Protection Panel	No	1	8537.00	625000.00	625000.00	18.00%	112500.00	737500.00	
iii	Transformer Protection Control and Relay Panel (LV side of 26.66/33.33 MVA, 11/33/220 KV single-phase Power Transformers bank)	No	1	8537.00	625000.00	625000.00	18.00%	112500.00	737500.00	
iv	33 kV Line Feeder Protection, Control and Relay Panels	Nos	2	8537.00	625000.00	1250000.00	18.00%	225000.00	1475000.00	
v	33 KV Control & Protection Relay panel for station Transformer.	No	1	8537.00	625000.00	625000.00	18.00%	112500.00	737500.00	
vi	Transformer Protection, Control and Relay Panel (LV side of 26.66/33.33 MVA, 11/ 33/220 KV single phase Power Transformer)	No	1	8537.00	625000.00	625000.00	18.00%	112500.00	737500.00	
8	VENTILATION SYSTEM									
i	400 mm sweep exhaust fan with louvres without any filtration system	Nos	5	8415.00	10625.00	53125.00	18.00%	9562.50	62687.50	
9	FIRE EXTINGUISHING SYSTEM (Portable Type)									
i	CO2 Cylinders 22.5 Kg	Nos.	3	8424.00	17500.00	52500.00	18.00%	9450.00	61950.00	
ii	HCF-227 ea Clean Agent Fire Extinguisher (4 kg)	Nos	2	8424.00	6250.00	12500.00	18.00%	2250.00	14750.00	
iii	BC class dry power type fire extinguisher 22.5 Kg	Nos	2	8424.00	16250.00	32500.00	18.00%	5850.00	38350.00	
iv	Foam type fire extinguisher 50 ltr	Nos.	4	8424.00	9375.00	37500.00	18.00%	6750.00	44250.00	
v	Fire buckets with stand (Set of 3)	Sets	2	8424.00	15000.00	30000.00	18.00%	5400.00	35400.00	
vi	Water Mist Trolley Mounted Fire Extinguishor (50 Ltr.)	Nos	2	8424.00	18750.00	37500.00	18.00%	6750.00	44250.00	
vii	Water Mist CAF Backpack (9 Ltr.)	Nos	4	8424.00	6250.00	25000.00	18.00%	4500.00	29500.00	
viii	Piping valves and other accessories for Hydrant System from the Pump House for 4 Nos. Single-phase Power Transformers as per CBIP Publication No.: 295 (Manual on Transformer). Only piping works and other necessary accessories required for water pumping / lifting from existing system. Pumps and Motors are existing at 132/220 kV GIS Substation Chanor.	Set	1	8424.00	1250000.00	1250000.00	18.00%	225000.00	1475000.00	
10	L.T. AND CONTROL CABLES									
10.1	1.1 kV Grade PVC Insulated Aluminium Conductor Power Un-armoured along with Lugs, Glands, Straight Joints, Termination Kit etc									
	(i) 3.5 Core, 120 Sq.mm Aluminum Conductor	km	0.5	8544.00	1174750.00	587375.00	18.00%	105727.50	693102.50	
	(ii) 3.5 Core, 35 Sq.mm Aluminum Conductor	km	0.5	8544.00	155375.00	77687.50	18.00%	13983.75	91671.25	
	iii) 3.5 core, 400 Sqmm Aluminum cable	KM	0.3	8544.00	1327500.00	398250.00	18.00%	71685.00	469935.00	
10.2	Power Aluminium Cable (PVC) - (Un-Armoured)									
	(i) 4 C x 25 sq. mm	km	1	8544.00	170000.00	170000.00	18.00%	30600.00	200600.00	
10.3	Control Copper Cables (FRLS) - (Un-Armoured)									
	(i) 2 C x 2.5 sq. mm	km	1	8544.00	79875.00	79875.00	18.00%	14377.50	94252.50	
	(ii) 4 C x 2.5 sq. mm	km	2	8544.00	124750.00	249500.00	18.00%	44910.00	294410.00	
	(iii) 7 C x 2.5 sq. mm	km	3.5	8544.00	186375.00	652312.50	18.00%	117416.25	769728.75	
	(iv) 10 C x 2.5 sq. mm	km	2.5	8544.00	268000.00	670000.00	18.00%	120600.00	790600.00	
	(v) 12 C x 2.5 sq. mm	km	2.5	8544.00	309750.00	774375.00	18.00%	139387.50	913762.50	
	(vi) 19 C x 2.5 sq. mm	km	3.5	8544.00	459125.00	1606937.50	18.00%	289248.75	1896186.25	
	(vii) 4 C X 4 sq.mm	km	1	8544.00	171750.00	171750.00	18.00%	30915.00	202665.00	
10.4	POWER CABLES (Armoured)									
	(i) 33 kV Grade, 95 Sq.mm XLPE insulated SPB/CB Aluminium conductor single core cable with corrugated aluminium sheath for terminating 250 kVA, 33 / 0.4 kV Station Transformer along with Termination Kits	km	0.8	8544.00	1500000.00	1125000.00	18.00%	202500.00	1327500.00	
	(ii) 33 kV Grade, 1000 Sq.mm XLPE insulated SPB/CB Aluminium conductor single core cable with corrugated aluminium sheath for 33 kV Line Feeders and Transformer Feeder Bays along with Outdoor termination kits	km	1	8544.00	2500000.00	2500000.00	18.00%	450000.00	2950000.00	
	(iii) 33 kV Grade, 630 Sq.mm XLPE insulated SPB/CB Aluminium conductor single core cable with corrugated aluminium sheath for 33 kV Line Feeders and Transformer Feeder Bays along with Outdoor termination kits	Km	3	8544.00	1875000.00	5625000.00	18.00%	1012500.00	6637500.00	
11	EARTH MAT & ASSOCIATED ACCESSORIES									

Er. Sahil Verma
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HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

	(i) M. S. Electrodes 25 mm dia	kg	200	7308.00	62.00	12560.00	18.00%	2268.00	14868.00	
	(ii) M. S. Flat 40 x 6 mm for risers	kg	500	7308.00	63.00	31500.00	18.00%	5670.00	37170.00	
	(iii) M.S. Rod 40 mm dia for main earthmat	km	2	7308.00	625000.00	1250000.00	18.00%	225000.00	1475000.00	
	(iv) 75 x 12 mm G. S. Flat	kg	500	7308.00	81.00	40500.00	18.00%	7290.00	47790.00	
	(v) 50 x 8 mm G. S. Flat	kg	400	7308.00	81.00	32400.00	18.00%	5832.00	38232.00	
	(vi) Braided Copper 25 x 3 mm for double flexible risers from flat risers to equipment	mtr	300	7308.00	1250.00	375000.00	18.00%	67500.00	442500.00	
12	**Miscellaneous Items, Earthing Material and Erection Hardware such as BPI, Insulator Stringe, 120 kN Disc Insulator, Hardware, Spacers, ACSR Moose Conductor(s), Cable Trays, Clamps, Connectors including Equipment Connectors, Junction Box, Earthwire, Lighting Protection, Buried Cable Trenches / Pipes for Equipment and Lighting, Cable Sealing Arrangement, nuts and bolts including all Accessories etc for completion of Scope of Work. Any material required to connect the system proposed in the scope with existing Substation Automation System including OFC shall be in the scope of bidder.**	Job	1	8538.00	1250000.00	1250000.00	18.00%	225000.00	1475000.00	
13	LT SWICTHGEAR									
i	Main Switch Boards for 33 GIS as per Technical Specification, Section - 5 (ACDB)	Set	1	8537.00	1000000.00	1000000.00	18.00%	180000.00	1180000.00	
14	TERTIARY FORMATION									
a)	Supply of material for delta & Neutral formation arrangement including conductor (TARATULLA), Post insulators (11 kV) with creepage distance 31.5 mm/kV, Steel Structures, Aluminium Tubes 3" size or Aluminium flat of suitable size, PVC tape for 11 kV voltage level for covering the conductors or Aluminium tube/flats, Disc or Pin insulators and NCTs, Hardware assemblies, connectors as required to complete the system (excluding civil works and cables)	Set	1	8538.00	625000.00	625000.00	18.00%	112500.00	737500.00	
b)	Alternative arrangement for Delta & Neutral formation arrangement with cables or any other arrangement (tertiary is unloaded)	job	1	8538.00	125000.00	125000.00	18.00%	22500.00	147500.00	
15	ILLUMINATION SYSTEM									
i	Supply of items for illumination with LED Luminaries in 33 kV GIS hall with PVC conduits including Luminaries, wires, Main Swaches, distribution Boards etc. PVC Copper conductor cables, Conduits/Junction boxes, Main Switch Boards. The rates in above items shall cover all items required for illumination of 33 kV GIS Hall	Job	1	5405.00	250000.00	250000.00	18.00%	45000.00	295000.00	
	NOTE: The wire size shall not be less than 2.5 sq. mm. Copper Conductor. The cost of wires / cables to be used for wiring from Main Switch Board onwards shall be covered in this item.									
16	**ANY OTHER ITEM WHICH IN THE OPINION OF THE BIDDER IS ESSENTIAL AND HE MAY LIKE TO QUOTE**									
i						0.00		0.00	0.00	
ii						0.00		0.00	0.00	
iii						0.00		0.00	0.00	
iv						0.00		0.00	0.00	
v						0.00		0.00	0.00	
vi						0.00		0.00	0.00	
vii						0.00		0.00	0.00	
viii						0.00		0.00	0.00	
1	MANDATORY SPARES									
1.1	MANDATORY SPARES FOR POWER TRANSFORMER									
i	36 kV bushing complete with metal parts and gasket	No.	1	8504.00	62500.00	62500.00	18.00%	11250.00	73750.00	
ii	245 kV RIP bushing complete with metal parts and gasket	No.	1	8504.00	2000000.00	2000000.00	18.00%	360000.00	2360000.00	
iii	Buchholz relay	No.	1	8504.00	18750.00	18750.00	18.00%	3375.00	22125.00	
iv	Winding Temperature Indicator (WTI)	Set	1	8504.00	31250.00	31250.00	18.00%	5625.00	36875.00	
v	Oil Temperature Indicator	Set	1	8504.00	31250.00	31250.00	18.00%	5625.00	36875.00	
vi	Oil sampling steel bottles	No	3	8504.00	12500.00	37500.00	18.00%	6750.00	44250.00	
vii	Pressure relief device for main tank	No	1	8504.00	18750.00	18750.00	18.00%	3375.00	22125.00	
viii	Magnetic Oil Level Gauge	No.	1	8504.00	18750.00	18750.00	18.00%	3375.00	22125.00	
ix	Pressure relief device for OLTC	No.	1	8504.00	18750.00	18750.00	18.00%	3375.00	22125.00	
x	Mtr. free breather	No	1	8504.00	625000.00	625000.00	18.00%	112500.00	737500.00	
2	COMMON SPARES, MAINTENACE TOOLS									
2.1	33 KV GIS EQUIPMENT									
i	SF_6 Gas Pressure Relief Devices 1 Nos. for each compartment	Set	1	8535.00	23438.00	23438.00	18.00%	4218.84	27656.84	
ii	Pressure Gauge along with Coupling Device	No.	1	8535.00	17813.00	17813.00	18.00%	3206.34	21019.34	
iii	Molecuar Filter for SF_6 Gas with Filter Bags	Set of each type	1	8535.00	27188.00	27188.00	18.00%	4893.84	32081.84	
iv	SF6 Gas in 50 Litre Cylinders	Nos.	3	8535.00	62500.00	187500.00	18.00%	33750.00	221250.00	
2.2	220 kV GIS EQUIPMENT									
i	SF_6 Gas Pressure Relief Devices for Gas compartment	No	1	8535.00	25781.00	25781.00	18.00%	4640.58	30421.58	

Er. Sahil Verma
Dy. Manager (Contracts)
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DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

iii	Pressure Gauge along with Coupling Device	No	1	8535.00	19594.00	19594.00	18.00%	3526.92	23120.92	
3	SPARES FOR CIRCUIT BREAKER									
3.1	220 KV GIS CIRCUIT BREAKER									
i	Trip Coils with Resistor as applicable	Nos	6	8535.00	16500.00	99000.00	18.00%	17820.00	116820.00	
ii	Closing Coils with resistor as applicable for each compartment	Nos	3	8535.00	13406.00	40218.00	18.00%	7239.24	47457.24	
3.2	33 KV GIS CIRCUIT BREAKER									
i	Trip Coils with Resistor as applicable	Nos	6	8535.00	15000.00	90000.00	18.00%	16200.00	106200.00	
ii	Closing Coils with resistor as applicable for each compartment	Nos	3	8535.00	12188.00	36564.00	18.00%	6581.52	43145.52	
4	SPARES FOR ISOLATOR AND EARTH SWITCH									
4.1	220 KV ISOLATOR AND EARTH SWITCH									
i	Complete set of 1 Nos. of three phase disconnector c/c main circuit enclosure and driving mechanism	Set	1	8535.00	1178719.00	1178719.00	18.00%	212169.42	1390888.42	
ii	Complete set of 1 Nos. of three phase earthing switch c/c main circuit enclosure and driving mechanism	Set	1	8535.00	1151906.00	1151906.00	18.00%	207343.08	1359249.08	
iii	Copper contact fingers for disconnector male and female contact for one complete (3 phase) disconnector for each compartment	Set	1	8535.00	134063.00	134063.00	18.00%	24131.34	158194.34	
iv	Copper contact fingers for earthing switch male and female contact for one complete (3 phase) disconnector for each compartment	Set	1	8535.00	72188.00	72188.00	18.00%	12993.84	85181.84	
4.2	33 KV ISOLATOR AND EARTH SWITCH									
i	Complete set of 1 Nos. of three phase disconnector c/c main circuit enclosure and driving mechanism	Set	1	8535.00	375000.00	375000.00	18.00%	67500.00	442500.00	
ii	Complete set of 1 Nos. of three phase earthing switch c/c main circuit enclosure and driving mechanism	Set	1	8535.00	375000.00	375000.00	18.00%	67500.00	442500.00	
iii	Copper contact fingers for disconnector male and female contact for one complete (3 phase) disconnector for each compartment	Set	1	8535.00	125000.00	125000.00	18.00%	22500.00	147500.00	
iv	Copper contact fingers for earthing switch male and female contact for one complete (3 phase) disconnector for each compartment	Set	1	8535.00	125000.00	125000.00	18.00%	22500.00	147500.00	
5	SPARES FOR CURRENT TRANSFORMER									
i	220 KV, single phase current transformer ratio 600-300 /1-1-1-1 A complete with mounting hardware	No.	1	8535.00	102094.00	102094.00	18.00%	18376.92	120470.92	
ii	33 KV, single phase current transformer ratio 3200-1600/1-1-1-1 A complete with mounting hardware	No.	1	8535.00	62500.00	62500.00	18.00%	11250.00	73750.00	
iii	33 KV, single phase current transformer ratio 2000-1000 /1-1-1-1 A complete with mounting hardware	No	1	8535.00	62500.00	62500.00	18.00%	11250.00	73750.00	
iv	33 KV, single phase current transformer ratio 1200-600-300 /1-1-1-1-1 A complete with mounting hardware	No.	1	8535.00	62500.00	62500.00	18.00%	11250.00	73750.00	
6	SPARES FOR VOLTAGE TRANSFORMER									
i	33 KV, single phase voltage transformer ratio 33 KV/√3 / 110V/√3 / 110V/√3 / 110V with mounting hardware	No	2	8535.00	125000.00	250000.00	18.00%	45000.00	295000.00	
7	SPARES FOR SURGE ARRESTOR									
i	198 KV Zinc Oxide Gapless Surge Arrestor with counter and leakage meter	No	2	8535.00	56250.00	112500.00	18.00%	20250.00	132750.00	
ii	30 KV Zinc Oxide Gapless Surge Arrestor with counter and leakage meter	Nos	2	8535.00	18750.00	37500.00	18.00%	6750.00	44250.00	
8	SPARES FOR RELAY AND PROTECTION PANELS									
i	Numerical Transformer Differential Relay	Nos.	1	8537.00	312500.00	312500.00	18.00%	56250.00	368750.00	
ii	Trip Circuit Supervision Relay	Nos.	2	8537.00	6250.00	12500.00	18.00%	2250.00	14750.00	
iii	Self Reset Trip Relay (1 No. of each type)	Nos.	2	8537.00	6250.00	12500.00	18.00%	2250.00	14750.00	
iv	Hand Reset Trip Relay (1 No. of each type)	Nos.	2	8537.00	6250.00	12500.00	18.00%	2250.00	14750.00	
v	TNC switch for breaker	Nos.	1	8537.00	6250.00	6250.00	18.00%	1125.00	7375.00	
vi	Numerical Over Current & Earth Fault Relay	Nos.	1	8537.00	250000.00	250000.00	18.00%	45000.00	295000.00	
9	STATION TRANSFORMER									
i	11 KV, L. V. Bushing with Metal Parts	No.	1	8504.00	31250.00	31250.00	18.00%	5625.00	36875.00	
ii	36 KV, H. V. Bushing with Metal Parts	No.	1	8504.00	62500.00	62500.00	18.00%	11250.00	73750.00	
10	ANY OTHER ITEM WHICH IN THE OPINION OF THE BIDDER IS ESSENTIAL AND HE MAY LIKE TO QUOTE									
i						0.00		0.00	0.00	
ii						0.00		0.00	0.00	
iii						0.00		0.00	0.00	
iv						0.00		0.00	0.00	
v						0.00		0.00	0.00	
	TOTAL Column 7 to be carried forward to Schedule No.7, Grand Summary					275292153.50		49552587.63	324844741.13	
	TOTAL (IN WORDS)	Twenty Seven Crore Fifty Two Lacs Ninety TWO Thousand One Hundred Fifty Three and Fifty Paisa Only								

NOTE:

1. *Above Quantities are Tentative and may vary during detailed engineering of Project. However, these shall be considered for Evaluation of Bid.*
2. *The payment to the Contractor shall be made as per approved Bill of Material after detailed engineering and actual measument at site on the Unit Rates quoted by him, hence the*
3. *Any Item not quoted by the Bidder but required for successful completion and commissioning of the Scope of Work shall be deemed to have been covered in other Items Cost*

Name of Bidder	Kanohar Electricals Limited
Name	Neeraj Mittal
Designation	Sr. Divisional Marketing Manager
Specify currency in accordance with ITB 18	INR

Prepared by:-
Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Checked by:-
Er. Aman Kumar
Sr. Manager (Contract)
HPPTCL, Shimla-5

Verified by:-
Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

Design 30/53

Schedule No - 2

TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor S/Stn

DESIGN SERVICES

Name of Firm:			KANOHAR ELECTRICALS LIMITED										
				Unit Price		Total Price		Goods and Service Tax					
Item	Description	Qty	SAC Code	Local Currency (INR)	Foreign Currency (USD)	Local Currency (INR)	Foreign Currency (USD)	Rate	Amount (INR)	Amount (USD)	Total Amount Including GST (INR)	Total Amount Including GST (USD)	Remarks
1	2	3	4	5	6	7=3x5	8=3x6	9	10=7x9	11=8x9	12=7+10	13=8+11	14
1.00	Substation Design (Extension)	1	998739.00	50000.00	0.00	50000.00	0.00	18.00%	9000.00	0.00	59000.00	0.00	
						0.00	0.00		0.00	0.00	0.00	0.00	
						0.00	0.00		0.00	0.00	0.00	0.00	
						0.00	0.00		0.00	0.00	0.00	0.00	
						0.00	0.00		0.00	0.00	0.00	0.00	
						0.00	0.00		0.00	0.00	0.00	0.00	
						0.00	0.00		0.00	0.00	0.00	0.00	
						0.00	0.00		0.00	0.00	0.00	0.00	
						0.00	0.00		0.00	0.00	0.00	0.00	
TOTAL Columns 7 & 8 to be carried						50000.00	0.00		9000.00	0.00	59000.00	0.00	
Total in Words						Fifty Thosand Only							
Name of Bidder						Kanohar Electricals Limited							
Name						Neeraj Mittal							
Designation						Sr. Divisional Marketing Manager							
Specify currency in accordance with ITB 19						INR							

Prepared by:-
G. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Checked by:-
Er. Anand Kumar
Sr. [illegible] (Contract)
HPPTCL, Shimla-5

Verified by:-
Er. R. N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

Transportation 31/53

Schedule No - 4

TENDER DOCUMENT No 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor S/Stn

Local transportation including port clearance and port charges and Inland Insurance Services

Name of Firm: KANOHAR ELECTRICALS LIMITED

Item	Description	Unit	Qty.	SAC Code	Unit Price in INR	Total Price in INR	Goods and Service Tax		Total Amount including GST	Currency for payment	Remarks
					Inland Transportation & Insurance	Inland Transportation & Insurance	Rate	Amount			
1	2	3	4	5	6	7=4x6	8	9=7x8	10=7+9	11	12
1	POWER TRANSFORMER & STATION TRANSFORMER										
i	26.66/33.33 MVA,11/33/220 kV, ONAN / ONAF, Single-phase Power Transformer including 220 kV and 33 kV oil/air bushing complete with all accessories including Fibre Optic Temperature Measuring System and first oil filling with 10% extra oil with R1CC panel complete in all respects (Tertiary at 11 KV shall not be loaded)	Nos.	4	996511.00	0.00	0.00		0.00	0.00		
ii	Online DGA Set	Nos.	4	996511.00	0.00	0.00		0.00	0.00		
iii	Insulating Oil Dry out System for Main + OLTC Tank	Nos.	4	996511.00	0.00	0.00		0.00	0.00		
iv	Nitrogen injection fire prevention and extinguishing system complete in all respects	Nos	4	996511.00	0.00	0.00		0.00	0.00		
v	250 kVA, 33/0.4 kV, 3-Phase Station Auxiliary Transformer including 33 kV SF-6 to cable termination, cable box for LT termination, accessories and first oil filling with 10% extra oil	No	1	996511.00	0.00	0.00		0.00	0.00		
2	220 KV GIS EQUIPMENT										
i	EXTENSION OF EXISTING BUS BAR SYSTEM (for existing both buses)	Set	1	996511.00	0.00	0.00		0.00	0.00		
	245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF6 gas insulated, metal enclosed bus bars, required to interconnect transformer bay module with existing Double Main Bus System along with all required accessories etc complete in all respects including adaptor for interconnection with existing Bus										
ii	TRANSFORMER CIRCUIT BREAKER BAY MODULE	Set	1	996511.00	0.00	0.00		0.00	0.00		
	245 kV, 2000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF6 Gas Insulated Transformer Circuit Breaker Bay Module each comprising of SF6 Gas Insulated Circuit Breaker (2000 A), Current Transformers (Ratio: 600-300 / 1 - 1 - 1 - 1 - 1 A), Isolator / Disconnector Switches (2000 A) combined with Safety Earth Switch complete with Manual and Motor Driven Operating Mechanisms, Local Control Cubicle (LCC), SF6 Gas Monitoring System for complete Bay, Single Phase SF6 Ducts and Gas Insulated Terminal Connection (SF6 / Air Interface along with all Accessories) for connecting 80/100 MVA, Single-phase Power Transformers Bank with 220 kV GIS through Gas Insulated Interconnection Bus and Accessories etc complete in all respects										
iii	245 KV AUXILIARY BUS BAY MODULE FOR SPARE TRANSFORMER	Set	1	996511.00	0.00	0.00		0.00	0.00		
	245 kV, Single Phase, 2000 A, 50 kA for 3.0 seconds, Auxiliary Bus Bar Enclosure running across the length of the Switchgear to interconnect the Spare Unit of 11/33 / 220 kV, Single Phase Power Transformers Bank with 220 kV GIS, Transformer Bay Module through GIS Duct having Single Phase, 2000 A, SF6 Gas Breaker, single phase Current Transformers (Ratio: 600 - 300 / 1 - 1 - 1 - 1 - 1 A), Single Pole operated 2000 A Safety Grounding Switches complete with Manual and Motor Driven Operating Mechanism, Local Control Cubicle (if required), SF6 Gas Monitoring System for complete Bay, Single Phase GIS Duct 2000 A and Gas Insulated Terminal Connection (SF6 / Air Interface along with all Accessories) for connecting Spare Single Phase Power Transformer with GIS through Gas Insulated Interconnection Bus and Accessories etc complete in all respects										
3	33 KV GIS EQUIPMENT										
i	BUS BARS MODULE:	Sets	2			0.00		0.00	0.00		
	36 kV, 3150 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, 3 single phase (isolated) Unit, SF6 gas insulated, metal enclosed bus bars, each enclosed in bus enclosures running along the length of the switchgear to interconnect each of the circuit breaker bay module in Double Main Bus System. Each bus bar set shall be complete with Voltage Transformers (VTs) complete with Isolator / disconnector cum earth switches and safety grounding switch all complete with manual and motor driven operating mechanisms, LCC, GIS Duct with SF6 gas monitoring system and accessories etc complete in all respects.										
ii	BUS COUPLER BAY MODULE:	Set	1	996511.00	0.00	0.00		0.00	0.00		

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Sr. Manager (Contract)
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Er. K.D. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

29/31

	36 kV, 3150 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 gas insulated bus coupler bay module comprising of vacuum circuit breaker (3150 A), current transformers (Ratio 3200-1600 / 1 - 1 - 1 - 1 A), bus bar isolator / disconnector switches (3150 A) combined with safety grounding switches complete with manual and motor driven operating mechanism, local control cubicle LCC, GIS Duct with SF6 gas monitoring system and accessories etc complete in all respects									
iii	TRANSFORMER CIRCUIT BREAKER BAY MODULE	Sets	1	996511.00	0.00	0.00		0.00	0.00	
	36 kV, 2500 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 gas insulated transformer bay module each comprising of vacuum circuit breaker, current transformers (Ratio 2000-1000 / 1 - 1 - 1 - 1 A), isolator / disconnector switches (2500 A) combined with safety earth switch complete with manual and motor driven operating mechanisms, local control cubicle SF6 gas monitoring system for complete bay, single phase SF6 ducts and SF6 / cable connecting termination arrangement to connect 80/100 MVA, 33/220 KV, single phase Power Transformer bank and accessories etc complete in all respects									
iv	36 KV AUXILIARY BUS BAY MODULE FOR SPARE TRANSFORMER	Set	1	996511.00	0.00	0.00		0.00	0.00	
	Single Phase, 2500 A, 31.5 kA for 3.0 seconds, Auxiliary Bus Bar Enclosure running across the length of the Switchgear to interconnect the Spare Unit of 11/33 / 220 kV, Single Phase Power Transformers Bank with 33 kV GIS Transformer Bay Module through GIS Duct, having Single Pole, 3150 A, vacuum Breaker, current transformers (Ratio 2000-1000 / 1 - 1 - 1 - 1 A) Single Pole operated (2500A) Safety Grounding Switches complete with Manual and Motor Driven Operating Mechanism, Local Control Cubicle, SF6 Gas Monitoring System for complete Bay, Single Phase GIS Duct (3150 A) and Gas Insulated Terminal Connection (SF6 / cable interface along with all Accessories) for connecting Spare Single Phase Power Transformer with GIS through Gas Insulated Interconnection Bus and Accessories etc complete in all respects									
v	36 KV STATION TRANSFORMER BAY MODULE	Set	1	996511.00	0.00	0.00		0.00	0.00	
	36 kV, 630 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 Gas Insulated Feeder Bay Module comprising of Vacuum Circuit Breaker (630 A), isolator / disconnector switches combined with safety grounding switches, Current Transformers (Ratio 30-15 / 1 - 1 - 1 - 1 A), Local Control Cubicle (if required), single phase SF6/ cable termination with SF6 Gas Monitoring System and Accessories etc complete in all respects (excluding the cost of XLPE cable & termination kits)									
vi	TRANSMISSION LINE FEEDER BAY MODULE	Sets	2	996511.00	0.00	0.00		0.00	0.00	
	36 kV, 2000 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 Gas Insulated Transmission Line Feeder Bay Module each comprising of vacuum Circuit Breaker (2000 A), Current Transformers (Ratio 1200-600-300/ 1 - 1 - 1 - 1 A), Isolator / Disconnectors (2000 A) Switches with combined Earth Switch complete with Manual and Motor Driven Operating Mechanisms, High Speed Fault Making Grounding Switch complete with group operated Manual and Motor Driven Operating Mechanism, Local Control Cubicle, SF6 Gas Monitoring System for complete Bay, GIS Duct and cable / SF6-Bushing Termination Enclosure and Accessories complete in all respects									
4	220 KV OUT DOOR EQUIPMENT									
i	198 kV, Single Phase Zinc Oxide Gapless Surge Arrestor with insulating base, surge counter and leakage meter	Nos	4	996511.00	0.00	0.00		0.00	0.00	
5	33 KV OUT DOOR EQUIPMENT									
i	30 kV Zinc Oxide Gapless Surge Arrestor with insulating base, counter and leakage meter	Nos	12	996511.00	0.00	0.00		0.00	0.00	
ii	33 kV, 1250A Isolator with earth switch motor operated complete with Structureb and foundation bolts	Nos	2	996511.00	0.00	0.00		0.00	0.00	
iii	33 kV Outdoor PT, 33 kV / √3 / 110 V / √3, class 3P(3cores)	Set	2	996511.00	0.00	0.00		0.00	0.00	
6	220 kV & 33 kV SUPER STRUCTURES and 220 KV& 33 KV EQUIPMENT STRUCTURES: Note:- Steel grade C shall be used									
i	220 kV Galvanized Super Structures comprising gantries and columns									
ii	220 kV Galvanized Equipment structures for CVT, LA, Isolators and Post Insulators	MT	42	996511.00	0.00	0.00		0.00	0.00	
iii	33 kV Galvanized Super Structures comprising gantries and columns including Transformer Bay for LV Bus and Neutral Bus									
iv	33 kV Galvanized Equipment Structures for PT and LA									
v	33 kV Galvanized Structure for Station Transformer									
vi	Nuts & Bolts including Foundation Bolts	MT	9	996511.00	0.00	0.00		0.00	0.00	
7	CONTROL RELAY AND PROTECTION PANELS									

Sr. Manager (C...)
HPPTCL, Sh...

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General Manager (C&D)
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A	220 KV CONTROL RELAY PROTECTION PANEL										
i	Transformer Protection Control and Relay Panel (HV side of 26.66/33.33 MVA 33 / 220 kV single phase Power Transformers bank)	No	1	996511.00	0.00	0.00		0.00	0.00		
ii	Transformer Protection Control and Relay Panel for single phase spare transformer (HV side of 26.66/33.33 MVA, 11/33 / 220 kV single-phase Power Transformer)	No	1	996511.00	0.00	0.00		0.00	0.00		
B	33 KV RELAY PROTECTION PANEL										
i	Bus coupler Control Relay and Protection Panel	No	1	996511.00	0.00	0.00		0.00	0.00		
ii	Bus Bar Control Relay and Protection Panel	No	1	996511.00	0.00	0.00		0.00	0.00		
iii	Transformer Protection Control and Relay Panel (LV side of 26.66/33.33 MVA 11/33/220 KV single-phase Power Transformers bank)	No	1	996511.00	0.00	0.00		0.00	0.00		
iv	33 kV Line Feeder Protection, Control and Relay Panels	Nos.	2	996511.00	0.00	0.00		0.00	0.00		
v	33 KV Control & Protection Relay panel for station Transformer.	No	1	996511.00	0.00	0.00		0.00	0.00		
vi	Transformer Protection, Control and Relay Panel (LV side of 26.66/33.33 MVA, 11/ 33/220 kV single-phase Power Transformer)	No	1	996511.00	0.00	0.00		0.00	0.00		
8	VENTILATION SYSTEM										
i	400 mm sweep exhaust fan with louvres without any filtration system	Nos	5	996511.00	0.00	0.00		0.00	0.00		
9	FIRE EXTINGUISHING SYSTEM (Portable Type)										
i	CO2 Cylinders 22.5 Kg	Nos.	3	996511.00	0.00	0.00		0.00	0.00		
ii	HCF-227 ea Clean Agent Fire Extinguisher (4 kg)	Nos.	2	996511.00	0.00	0.00		0.00	0.00		
iii	BC class dry power type fire extinguisher 22.5 Kg	Nos.	2	996511.00	0.00	0.00		0.00	0.00		
iv	Foam type fire extinguisher 50 ltr	Nos.	4	996511.00	0.00	0.00		0.00	0.00		
v	Fire buckets with stand (Set of 5)	Sets	2	996511.00	0.00	0.00		0.00	0.00		
vi	Water Mist Trolley Mounted Fire Extinguisher (50 Ltr.)	Nos.	2	996511.00	0.00	0.00		0.00	0.00		
vii	Water Mist CAF Backpack (9 Ltr.)	Nos.	4	996511.00	0.00	0.00		0.00	0.00		
viii	Piping valves and other accessories for Hydrant System from the Pump House for 4 Nos. Single-phase Power Transformers as per CBIP Publication No. 295 (Manual on Transformer) Only piping works and other necessary accessories required for water pumping / lifting from existing system. Pumps and Motors are existing at 132/220 kV GIS Substation Charor.	Set	1	996511.00	0.00	0.00		0.00	0.00		
10	L.T. AND CONTROL CABLES										
10.1	1.1 kV Grade PVC Insulated Aluminium Conductor Power Un-armoured along with Lugs, Glands, Straight Joints, Termination Kit etc										
	(i) 3.5 Core, 120 Sq.mm Aluminum Conductor	km	0.5	996511.00	0.00	0.00		0.00	0.00		
	(ii) 3.5 Core, 35 Sq.mm Aluminum Conductor	km	0.5	996511.00	0.00	0.00		0.00	0.00		
	iii) 3.5 core, 400 Sqmm Aluminium cable	KM	0.3	996511.00	0.00	0.00		0.00	0.00		
10.2	Power Aluminium Cable (PVC) - (Un-Armoured)										
	(i) 4 C x 25 sq. mm	km	1	996511.00	0.00	0.00		0.00	0.00		
10.3	Control Copper Cables (FRLS) - (Un-Armoured)										
	(i) 2 C x 2.5 sq. mm	km	1	996511.00	0.00	0.00		0.00	0.00		
	(ii) 4 C x 2.5 sq. mm	km	2	996511.00	0.00	0.00		0.00	0.00		
	(iii) 7 C x 2.5 sq. mm	km	3.5	996511.00	0.00	0.00		0.00	0.00		
	(iv) 10 C x 2.5 sq. mm	km	2.5	996511.00	0.00	0.00		0.00	0.00		
	(v) 12 C x 2.5 sq. mm	km	2.5	996511.00	0.00	0.00		0.00	0.00		
	(vi) 19 C x 2.5 sq. mm	km	3.5	996511.00	0.00	0.00		0.00	0.00		
	(vii) 4 C X 4 sq.mm	km	1	996511.00	0.00	0.00		0.00	0.00		
10.4	POWER CABLES (Armoured)										
	(i) 33 kV Grade, 95 Sq mm XLPE insulated SPB/CB Aluminium conductor single core cable with corrugated aluminium sheath for terminating 250 kVA, 33 / 0.4 kV Station Transformer along with Termination Kits	km	0.75	996511.00	0.00	0.00		0.00	0.00		
	(ii) 33 kV Grade, 1000 Sq mm XLPE insulated SPB/CB Aluminium conductor single core cable with corrugated aluminium sheath for 33 kV Line Feeders and Transformer Feeder Bays along with Outdoor termination kits	km	1	996511.00	0.00	0.00		0.00	0.00		
	(ii) 33 kV Grade, 630 Sq mm XLPE insulated SPB/CB Aluminium conductor single core cable with corrugated aluminium sheath for 33 kV Line Feeders and Transformer Feeder Bays along with Outdoor termination kits	Km	3	996511.00	0.00	0.00		0.00	0.00		
11	EARTH MAT & ASSOCIATED ACCESSORIES										
	(i) M. S. Electrodes 35 mm dia	kg	200	996511.00	0.00	0.00		0.00	0.00		
	(ii) M. S. Flat 40 x 6 mm for risers	kg	500	996511.00	0.00	0.00		0.00	0.00		
	(iii) M.S. Rod 40 mm dia for main earthmat	km	2	996511.00	0.00	0.00		0.00	0.00		
	(iv) 75 x 12 mm G. S. Flat	kg	500	996511.00	0.00	0.00		0.00	0.00		
	(v) 50 x 6 mm G. S. Flat	kg	400	996511.00	0.00	0.00		0.00	0.00		
	(vi) Braided Copper 35 x 3 mm for double flexible risers from flat risers to equipment	m/r	300	996511.00	0.00	0.00		0.00	0.00		
12	Miscellaneous Items, Earthing Material and Erection Hardware such as BPI, Insulator Strings, 120 kN Disc Insulator, Hardware, Spacers, ACSR Moose Conductor(s), Cable Trays, Clamps, Connectors including Equipment Connectors, Junction Box, Earthwire, Lightning Protection, Buried Cable Trenches / Pipes for Equipment and Lighting, Cable Sealing Arrangement, nuts and bolts including all Accessories etc for completion of Scope of Work. Any material required to connect the system proposed in the scope with existing Substation Automation System including OFC shall be in the scope of bidder.	Job	1	996511.00	0.00	0.00		0.00	0.00		

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DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

13	LT SWICTHGEAR										
i	Main Switch Boards for 33 GIS as per Technical Specification, Section - 5 (ACDB)	Set	1	996511.00	0.00	0.00		0.00	0.00		
14	TERTIARY FORMATION										
a)	Supply of material for delta & Neutral formation arrangement including conductor (TARATULLA), Post Insulators (11 kV) with creepage distance 31.5 mm/kV, Steel Structures, Aluminium Tubes 3" size or Aluminium flat of suitable size, PVC tape for 11 kv voltage level for covering the conductors or Aluminium tube/flats, Disc or Pin insulators and NCTs, Hardware assemblies, connectors as required to complete the system (excluding civil works and cables)	Set	1	996511.00	0.00	0.00		0.00	0.00		
b)	Alternative arrangement for Delta & Neutral formation arrangement with cables or any other arrangement (tertiary is unloaded)	job	1	996511.00	0.00	0.00		0.00	0.00		
15	ILLUMINATION SYSTEM										
i	Supply of items for Illumination with LED Luminaries in 33 kV GIS hall with PVC conduits including Luminaries, wires, Main Switches, distribution Boards etc, PVC Copper conductor cables, Conduits/Junction boxes, Main Switch Boards. The rates in above items shall cover all items required for illumination of 33 kV GIS Hall.	Job	1	996511.00	0.00	0.00		0.00	0.00		
	NOTE: The wire size shall not be less than 2.5 sq. mm. Copper Conductor. The cost of wires / cables to be used for wiring from Main Switch Board onwards shall be covered in this item.										
16	ANY OTHER ITEM WHICH IN THE OPINION OF THE BIDDER IS ESSENTIAL AND HE MAY LIKE TO QUOTE										
i				996511.00	0.00	0.00		0.00	0.00		
ii				996511.00	0.00	0.00		0.00	0.00		
iii				996511.00	0.00	0.00		0.00	0.00		
iv				996511.00	0.00	0.00		0.00	0.00		
v				996511.00	0.00	0.00		0.00	0.00		
vi				996511.00	0.00	0.00		0.00	0.00		
vii				996511.00	0.00	0.00		0.00	0.00		
viii				996511.00	0.00	0.00		0.00	0.00		
1	MANDATORY SPARES										
1.1	MANDATORY SPARES FOR POWER TRANSFORMER										
i	36 kv bushing complete with metal parts and gasket	No	1	996511.00	0.00	0.00		0.00	0.00		
ii	245 kV RIP bushing complete with metal parts and gaskes	No	1	996511.00	0.00	0.00		0.00	0.00		
iii	Buchholz relay	No.	1	996511.00	0.00	0.00		0.00	0.00		
iv	Winding Temperature Indicator (WTI)	Set	1	996511.00	0.00	0.00		0.00	0.00		
v	Oil Temperature Indicator	Set	1	996511.00	0.00	0.00		0.00	0.00		
vi	Oil sampling steel bottles	No	3	996511.00	0.00	0.00		0.00	0.00		
vii	Pressure relief device for main tank	No	1	996511.00	0.00	0.00		0.00	0.00		
viii	Magnetic Oil Level Gauge	No.	1	996511.00	0.00	0.00		0.00	0.00		
ix	Pressure relief device for OLTC	Nos.	1	996511.00	0.00	0.00		0.00	0.00		
x	Mtc. free breather	No	1	996511.00	0.00	0.00		0.00	0.00		
2	COMMON SPARES, MAINTENACE TOOLS										
2.1	33 KV GIS EQUIPMENT										
i	SF_6 Gas Pressure Relief Devices 1 Nos. for each compartment	Set	1	996511.00	0.00	0.00		0.00	0.00		
ii	Pressure Gauge along with Coupling Device	No	1	996511.00	0.00	0.00		0.00	0.00		
iii	Molecular Filter for SF_6 Gas with Filter Bags	Set of each type	1	996511.00	0.00	0.00		0.00	0.00		
iv	SF6 Gas in 50 Litre Cylinders	Nos.	3	996511.00	0.00	0.00		0.00	0.00		
2.2	220 kV GIS EQUIPMENT										
i	SF_6 Gas Pressure Relief Devices for Gas compartment	No	1	996511.00	0.00	0.00		0.00	0.00		
ii	Pressure Gauge along with Coupling Device	No	1	996511.00	0.00	0.00		0.00	0.00		
3	SPARES FOR CIRCUIT BREAKER										
3.1	220 KV GIS CIRCUIT BREAKER										
i	Trip Coils with Resistor as applicable	Nos.	6	996511.00	0.00	0.00		0.00	0.00		
ii	Closing Coils with resistor as applicable for each compartment	Nos.	3	996511.00	0.00	0.00		0.00	0.00		
3.2	33 KV GIS CIRCUIT BREAKER										
i	Trip Coils with Resistor as applicable	Nos.	6	996511.00	0.00	0.00		0.00	0.00		
ii	Closing Coils with resistor as applicable for each compartment	Nos	3	996511.00	0.00	0.00		0.00	0.00		
4	SPARES FOR ISOLATOR AND EARTH SWITCH										
4.1	220 KV ISOLATOR AND EARTH SWITCH										
i	Complete set of 1 Nos. of three phase disconnector c/c main circuit enclosure and driving mechanism	Set	1	996511.00	0.00	0.00		0.00	0.00		
ii	Complete set of 1 Nos. of three phase earthing switch c/c main circuit enclosure and driving mechanism	Set	1	996511.00	0.00	0.00		0.00	0.00		
iii	Copper contact fingers for disconnector male and female contact for one complete (3 phase) disconnector for each compartment	Set	1	996511.00	0.00	0.00		0.00	0.00		
iv	Copper contact fingers for earthing switch male and female contact for one complete (3 phase) disconnector for each compartment	Set	1	996511.00	0.00	0.00		0.00	0.00		
4.2	33 KV ISOLATOR AND EARTH SWITCH										
i	Complete set of 1 Nos. of three phase disconnector c/c main circuit enclosure and driving mechanism	Set	1	996511.00	0.00	0.00		0.00	0.00		
ii	Complete set of 1 Nos. of three phase earthing switch c/c main circuit enclosure and driving mechanism	Set	1	996511.00	0.00	0.00		0.00	0.00		

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DGM (Contract)
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General Manager (C&D)
HPPTCL, Shimla-5

iii	Copper contact fingers for disconnector male and female contact for one complete (3 phase) disconnector for each compartment	Set	1	996511.00	0.00	0.00		0.00	0.00		
iv	Copper contact fingers for earthing switch male and female contact for one complete (3 phase) disconnector for each compartment	Set	1	996511.00	0.00	0.00		0.00	0.00		
5	SPARES FOR CURRENT TRANSFORMER										
i	220 KV, single phase current transformer ratio 600-300 /1-1-1-1-1 A complete with mounting hardware	No.	1	996511.00	0.00	0.00		0.00	0.00		
ii	33 KV, single phase current transformer ratio 3200-1600/1-1-1-1-1 A complete with mounting hardware	No.	1	996511.00	0.00	0.00		0.00	0.00		
iii	33 KV, single phase current transformer ratio 2000-1000 /1-1-1-1-1 A complete with mounting hardware	No	1	996511.00	0.00	0.00		0.00	0.00		
iv	33 KV, single phase current transformer ratio 1200-600-300 /1-1-1-1-1 A complete with mounting hardware	No.	1	996511.00	0.00	0.00		0.00	0.00		
6	SPARES FOR VOLTAGE TRANSFORMER										
i	33 KV, single phase voltage transformer ratio 33 KV/√3 / 110V/√3 / 110V/√3 / 110V with mounting hardware	No.	2	996511.00	0.00	0.00		0.00	0.00		
7	SPARES FOR SURGE ARRESTOR										
i	198 KV Zinc Oxide Gapless Surge Arrestor with counter and leakage meter	No	2	996511.00	0.00	0.00		0.00	0.00		
ii	30 KV Zinc Oxide Gapless Surge Arrestor with counter and leakage meter	Nos	2	996511.00	0.00	0.00		0.00	0.00		
8	SPARES FOR RELAY AND PROTECTION PANELS										
i	Numerical Transformer Differential Relay	Nos.	1	996511.00	0.00	0.00		0.00	0.00		
ii	Trip Circuit Supervision Relay	Nos	2	996511.00	0.00	0.00		0.00	0.00		
iii	Self Reset Trip Relay (1 No. of each type)	Nos	2	996511.00	0.00	0.00		0.00	0.00		
iv	Hand Reset Trip Relay (1 No. of each type)	Nos	2	996511.00	0.00	0.00		0.00	0.00		
v	TNC switch for breaker	Nos.	1	996511.00	0.00	0.00		0.00	0.00		
vi	Numerical Over Current & Earth Fault Relay	Nos	1	996511.00	0.00	0.00		0.00	0.00		
9	STATION TRANSFORMER										
i	1.1 kV, L. V. Bushing with Metal Parts	No.	1	996511.00	0.00	0.00		0.00	0.00		
ii	36 kV, H. V. Bushing with Metal Parts	No	1	996511.00	0.00	0.00		0.00	0.00		
10	ANY OTHER ITEM WHICH IN THE OPINION OF THE BIDDER IS ESSENTIAL AND HE MAY LIKE TO QUOTE										
i						0.00		0.00	0.00		
ii						0.00		0.00	0.00		
iii						0.00		0.00	0.00		
iv						0.00		0.00	0.00		
v						0.00		0.00	0.00		
	TOTAL Column 7 to be carried forward to Schedule No.7, Grand Summary					0.00		0.00	0.00		
	TOTAL (IN WORDS)	INR Zero Only									

NOTE:

1. *Above Quantities are Tentative and may vary during detailed engineering of Project. However, these shall be considered for Evaluation of Bid.*
2. *The payment to the Contractor shall be made as per approved Bill of Material after detailed engineering and actual measurment at site on the Unit Rates quoted by him, hence the*
3. *Any item not quoted by the Bidder but required for successful completion and commissioning of the Scope of Work shall be deemed to have been covered in other Items Cost and*

Name of Bidder	Kanohar Electricals Limited
Name	Neeraj Mittal
Designation	Sr. Divisional marketing Manager

Prepared by:-
Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Checked by:-
Er. Aman Kumar
Sr. Manager (Contract)
HPPTCL, Shimla-5

Verified by:-
Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

29.35

Schedule No - 5

TENDER DOCUMENT No : 17 - SS / KPW / HPPTCL / 33/220 KV Additional Charor S/Stn

Installation and other Services including civil works

Name of Firm: Kanohar Electricals Limited

Item	Description	Unit	Qty.	SAC Code	Unit Price[1]	Total Price[1]	Goods and Service Tax		Total Amount including GST	Currency for payment	Remarks
					Local Currency (INR)	Local Currency (INR)	Rate	Amount			
1	2	3	4	5	6	7=4x6	8	9=7x8	10=7+9	11	12
1	POWER TRANSFORMER & STATION TRANSFORMER										
i	26.65/33.33 MVA,11/33/220 kV, ONAN / ONAF, Single phase Power Transformer including 220 kV and 33 kV oil/air bushing complete with all accessories including Fibre Optic Temperature Measuring System and first oil filling with 10% extra oil with RTCC panel complete in all respects (Tertiary at 11 KV shall not be loaded)	Nos.	4	998739.00	400000.00	1600000.00	18.00%	288000.00	1888000.00		
ii	Online DGA Set	Nos.	4	998739.00	15000.00	60000.00	18.00%	10800.00	70800.00		
iii	Insulating Oil Dry-out System for Main + OLTC Tank	Nos.	4	998739.00	15000.00	60000.00	18.00%	10800.00	70800.00		
iv	Nitrogen injection fire prevension and extinguishing system complete in all respects	Nos.	4	998739.00	15000.00	60000.00	18.00%	10800.00	70800.00		
v	250 kVA, 33/0.4 kV, 3-Phase Station Auxiliary Transformer including 33 kV SF-6 to cable termination, cable box for LT termination, accessories and first oil filling with 10% extra oil.	No	1	998739.00	25000.00	25000.00	18.00%	4500.00	29500.00		
2	220 KV GIS EQUIPMENT										
i	EXTENSION OF EXISTING BUS BAR SYSTEM (for existing both buses)	Set	1	998739.00	10000.00	10000.00	18.00%	1800.00	11800.00		
	245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF6 gas insulated, metal enclosed bus bars, required to interconnect transformer bay module with existing Double Main Bus System along with all required accessories etc complete in all respects including adaptor for interconnection with existing Bus.										
ii	TRANSFORMER CIRCUIT BREAKER BAY MODULE	Set	1	998739.00	100000.00	100000.00	18.00%	18000.00	118000.00		
	245 kV, 2000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF6 Gas Insulated Transformer Circuit Breaker Bay Module each comprising of SF6 Gas Insulated Circuit Breaker (2000 A), Current Transformers (Ratio: 600-300 / 1-1-1-1-1 A), Isolator / Disconnector Switches (2000 A) combined with Safety Earth Switch complete with Manual and Motor Driven Operating Mechanisms, Local Control Cubicle (LCC), SF6 Gas Monitoring System for complete Bay, Single Phase SF6 Ducts and Gas Insulated Terminal Connection (SF6 / Air interface along with all Accessories) for connecting 80/100 MVA, Single-phase Power Transformers Bank with 220 kV GIS through Gas Insulated Interconnection Bus and Accessories etc complete in all respects										
iii	245 KV AUXILIARY BUS BAY MODULE FOR SPARE TRANSFORMER	Set	1	998739.00	100000.00	100000.00	18.00%	18000.00	118000.00		
	245 kV, Single Phase, 2000 A, 50 kA for 3.0 seconds, Auxiliary Bus Bar Enclosure running across the length of the Switchgear to interconnect the Spare Unit of 11/33 / 220 kV, Single Phase Power Transformers Bank with 220 kV GIS, Transformer Bay Module through GIS Duct having Single Phase, 2000 A, SF6 Gas Breaker, single phase Current Transformers (Ratio: 600 - 300 / 1 - 1 - 1 - 1 - 1 A), Single Pole operated 2000 A Safety Grounding Switches complete with Manual and Motor Driven Operating Mechanism, Local Control Cubicle (if required), SF6 Gas Monitoring System for complete Bay, Single Phase GIS Duct, 2000 A and Gas Insulated Terminal Connection (SF6 / Air Interface along with all Accessories) for connecting Spare Single Phase Power Transformer with GIS through Gas Insulated Interconnection Bus and Accessories etc complete in all respects										
3	33 KV GIS EQUIPMENT										
i	BUS BARS MODULE	Sets	2	998739.00	15000.00	30000.00	18.00%	5400.00	35400.00		
	36 kV, 3150 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, 3 single phase (isolated) Unit, SF6 gas insulated, metal enclosed bus bars, each enclosed in bus enclosures running along the length of the switchgear to interconnect each of the circuit breaker bay module in Double Main Bus System. Each bus bar set shall be complete with Voltage Transformers (VTs) complete with isolator / disconnector cum earth switches and safety grounding switch all complete with manual and motor driven operating mechanisms, LCC, GIS Duct with SF6 gas monitoring system and accessories etc complete in all respects										
ii	BUS COUPLER BAY MODULE	Set	1	998739.00	15000.00	15000.00	18.00%	2700.00	17700.00		

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DGM (Contract)
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General Manager (C&D)
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	36 kV, 3150 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 gas insulated bus coupler bay module comprising of vacuum circuit breaker (3150 A), current transformers (Ratio 3200-1600 / 1 - 1 - 1 - 1 A), bus bar isolator / disconnector switches (3150 A) combined with safety grounding switches complete with manual and motor driven operating mechanism, local control cubicle LCC, GIS Duct with SF6 gas monitoring system and accessories etc complete in all respects										
iii	TRANSFORMER CIRCUIT BREAKER BAY MODULE	Sets	1	998739.00	15000.00	15000.00	18.00%	2700.00	17700.00		
	36 kV, 2500 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 gas insulated transformer bay module each comprising of vacuum circuit breaker current transformers (Ratio: 2000-1000 / 1 - 1 - 1 - 1 - 1 A), isolator / disconnector switches (2500 A) combined with safety earth switch complete with manual and motor driven operating mechanisms, local control cubicle SF6 gas monitoring system for complete bay, single phase SF6 ducts and SF6 / cable connecting termination arrangement to connect 80/100 MVA, 33/220 kV, single phase Power Transformer bank and accessories etc complete in all respects										
iv	36 KV AUXILIARY BUS BAY MODULE FOR SPARE TRANSFORMER	Set	1	998739.00	15000.00	15000.00	18.00%	2700.00	17700.00		
	Single Phase, 2500 A, 31.5 kA for 3.0 seconds, Auxiliary Bus Bar Enclosure running across the length of the Switchgear to interconnect the Spare Unit of 11/33 / 220 kV, Single Phase Power Transformers Bank with 33 kV GIS Transformer Bay Module through GIS Duct, having Single Pole, 3150 A, vacuum Breaker, current transformers (Ratio 2000-1000 / 1 - 1 - 1 - 1 A), Single Pole operated (2500A) Safety Grounding Switches complete with Manual and Motor Driven Operating Mechanism, Local Control Cubicle, SF6 Gas Monitoring System for complete Bay, Single Phase GIS Duct (3150 A) and Gas Insulated Terminal Connection (SF6 / cable interface along with all Accessories) for connecting Spare Single Phase Power Transformer with GIS through Gas Insulated Interconnection Bus and Accessories etc complete in all respects										
v	36 KV STATION TRANSFORMER BAY MODULE	Set	1		15000.00	15000.00	18.00%	2700.00	17700.00		
	36 kV, 630 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 Gas Insulated Feeder Bay Module comprising of Vacuum Circuit Breaker (630 A), isolator / disconnector switches combined with safety grounding switches, Current Transformers (Ratio 30-15 / 1 - 1 - 1 - 1 A), Local Control Cubicle (if required), single phase SF6/ cable termination with SF6 Gas Monitoring System and Accessories etc complete in all respects (excluding the cost of XLPE cable & termination kits)										
vi	TRANSMISSION LINE FEEDER BAY MODULE	Sets	2	998739.00	15000.00	30000.00	18.00%	5400.00	35400.00		
	36 kV, 2000 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 Gas Insulated Transmission Line Feeder Bay Module each comprising of vacuum Circuit Breaker (2000 A), Current Transformers (Ratio: 1200-600-300/ 1 - 1 - 1 - 1 A), Isolator / Disconnectors (2000 A) Switches with combined Earth Switch complete with Manual and Motor Driven Operating Mechanisms, High Speed Fault Making Grounding Switch complete with group operated Manual and Motor Driven Operating Mechanism, Local Control Cubicle, SF6 Gas Monitoring System for complete Bay, GIS Duct and cable / SF6 Bushing Termination Enclosure and Accessories complete in all respects										
4	220 KV OUT DOOR EQUIPMENT										
i	198 kV, Single Phase Zinc Oxide Gapless Surge Arrestor with insulating base, surge counter and leakage meter	Nos.	4	998739.00	5000.00	20000.00	18.00%	3600.00	23600.00		
5	33 KV OUT DOOR EQUIPMENT										
i	30 kV Zinc Oxide Gapless Surge Arrestor with insulating base, counter and leakage meter	Nos.	12	998739.00	3000.00	36000.00	18.00%	6480.00	42480.00		
ii	33 KV, 1250A Isolator with earth switch motor operated complete with Structures and foundation bolts	Nos	2	998739.00	10000.00	20000.00	18.00%	3600.00	23600.00		
iii	33 kV Outdoor PT, 33 kV /√3 / 110 V /√3, class 3P, 3cores)	Set	2	998739.00	3000.00	6000.00	18.00%	1080.00	7080.00		
6	220 kV & 33 kV SUPER STRUCTURES and 220 KV& 33 KV EQUIPMENT STRUCTURES: Note:- Steel grade C shall be used.										
i	220 kV Galvanized Super Structures comprising (lattice type) columns										
ii	220 kV Galvanized Equipment structures for CVT, LA, Isolators and Post Insulators	MT	45	998739.00	6500.00	260000.00	18.00%	46800.00	306800.00		

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iii	33 kV Galvanized Super Structures comprising gantries and columns including Transformer Bay for LV Bus and Neutral Bus.										
iv	33 kV Galvanized Equipment Structures for PT and LA										
v	33 kV Galvanized Structure for Station Transformer										
vi	Nuts & Bolts including Foundation Bolts	MT	6	998739.00	6500.00	39000.00	18.00%	7020.00	46020.00		
7	CONTROL RELAY AND PROTECTION PANELS										
A	220 KV CONTROL RELAY PROTECTION PANEL										
i	Transformer Protection Control and Relay Panel (HV side of 26.66/33.33 MVA, 33 / 220 kV single-phase Power Transformers bank)	No	1	998739.00	3000.00	3000.00	18.00%	540.00	3540.00		
ii	Transformer Protection Control and Relay Panel for single phase spare transformer (HV side of 26.66/33.33 MVA, 11/33 / 220 kVsingle phase Power Transformer)	No	1	998739.00	3000.00	3000.00	18.00%	540.00	3540.00		
B	33 KV RELAY PROTECTION PANEL										
i	Bus coupler Control Relay and Protection Panel	No	1	998739.00	3000.00	3000.00	18.00%	540.00	3540.00		
ii	Bus Bar Control Relay and Protection Panel	No	1	998739.00	3000.00	3000.00	18.00%	540.00	3540.00		
iii	Transformer Protection Control and Relay Panel (LV side of 26.66/33.33 MVA, 11/33/220 KV single-phase Power Transformers bank)	No	1	998739.00	3000.00	3000.00	18.00%	540.00	3540.00		
iv	33 kV Line Feeder Protection Control and Relay Panels	Nos	2	998739.00	3000.00	6000.00	18.00%	1080.00	7080.00		
v	33 KV Control & Protection Relay panel for station Transformer.	No	1	998739.00	3000.00	3000.00	18.00%	540.00	3540.00		
vi	Transformer Protection Control and Relay Panel (LV side of 26.66/33.33 MVA, 11/ 33/220 kV single-phase Power Transformer)	No	1	998739.00	3000.00	3000.00	18.00%	540.00	3540.00		
8	VENTILATION SYSTEM										
i	400 mm sweep exhaust fan with louvres without any filtration system	Nos	5	998739.00	500.00	2500.00	18.00%	450.00	2950.00		
9	Piping valves and other accessories for Hydrant System from the Pump House for 4 Nos. Single phase Power Transformers as per CBIP Publication No.. 295 (Manual on Transformer). Only piping works and other necessary accessories required for water pumping / lifting from existing system. Pumps and Motors are existing at 132/220 kV GIS Substation Charor.	Set	1	998739.00	100000.00	100000.00	18.00%	18000.00	118000.00		
10	L.T. AND CONTROL CABLES										
10.1	1.1 kV Grade PVC Insulated Aluminium Conductor Power Un-armoured along with Lugs, Glands, Straight Joints, Termination Kit etc										
	(i) 3.5 Core, 120 Sq mm Aluminium Conductor	km	0.5	998739.00	150000.00	75000.00	18.00%	13500.00	88500.00		
	(ii) 3.5 Core, 35 Sq mm Aluminium Conductor	km	0.5	998739.00	100000.00	50000.00	18.00%	9000.00	59000.00		
	(iii) 3.5 core, 400 Sqmm Aluminium cable	KM	0.3	998739.00	200000.00	60000.00	18.00%	10800.00	70800.00		
10.2	Power Aluminium Cable (PVC) - (Un-Armoured)										
	(i) 4 C x 25 sq. mm	km	1	998739.00	50000.00	50000.00	18.00%	9000.00	59000.00		
10.3	Control Copper Cables (FRLS) - (Un-Armoured)										
	(i) 2 C x 2.5 sq. mm	km	1	998739.00	12000.00	12000.00	18.00%	2160.00	14160.00		
	(ii) 4 C x 2.5 sq. mm	km	2	998739.00	15000.00	30000.00	18.00%	5400.00	35400.00		
	(iii) 7 C x 2.5 sq. mm	km	3.5	998739.00	15000.00	52500.00	18.00%	9450.00	61950.00		
	(iv) 10 C x 2.5 sq. mm	km	2.5	998739.00	18000.00	45000.00	18.00%	8100.00	53100.00		
	(v) 12 C x 2.5 sq. mm	km	2.5	998739.00	18000.00	45000.00	18.00%	8100.00	53100.00		
	(vi) 19 C x 2.5 sq. mm	km	3.5	998739.00	20000.00	70000.00	18.00%	12600.00	82600.00		
	(vii) 4 C X 4 sq mm	km	1	998739.00	10000.00	10000.00	18.00%	1800.00	11800.00		
10.4	POWER CABLES (Armoured)										
	(i) 33 kV Grade, 95 Sq mm XLPE insulated SPB/CB Aluminium conductor single core cable with corrugated aluminium sheath for terminating 250 kVA, 33 / 0.4 kV Station Transformer along with Termination Kits.	km	0.75	998739.00	200000.00	150000.00	18.00%	27000.00	177000.00		
	(ii) 33 kV Grade, 1000 Sq mm XLPE insulated SPB/CB Aluminium conductor single core cable with corrugated aluminium sheath for 33 kV Line Feeders and Transformer Feeder Bays along with Outdoor termination kits.	km	1	998739.00	200000.00	200000.00	18.00%	36000.00	236000.00		
	(iii) 33 kV Grade, 630 Sq mm XLPE insulated SPB/CB Aluminium conductor single core cable with corrugated aluminium sheath for 33 kV Line Feeders and Transformer Feeder Bays along with Outdoor termination kits.	Km	3	998739.00	200000.00	600000.00	18.00%	108000.00	708000.00		
11	EARTH MAT & ASSOCIATED ACCESSORIES										
	(i) M. S. Electrodes 35 mm dia.	kg	200	998739.00	15.00	3000.00	18.00%	540.00	3540.00		
	(ii) M. S. Flat 40 x 6 mm for risers	kg	500	998739.00	15.00	7500.00	18.00%	1350.00	8850.00		
	(iii) M.S. Rod 40 mm dia for main earthmat	km	2	998739.00	150000.00	300000.00	18.00%	54000.00	354000.00		
	(iv) 75 x 12 mm G. S. Flat	kg	500	998739.00	15.00	7500.00	18.00%	1350.00	8850.00		
	(v) 50 x 6 mm G. S. Flat	kg	400	998739.00	15.00	6000.00	18.00%	1080.00	7080.00		
	(vi) Braided Copper 35 x 3 mm for double flexible risers from flat risers to equipment	mtr	300	998739.00	200.00	60000.00	18.00%	10800.00	70800.00		

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Dy. Manager (Contracts)
HPPTCL, Shimla-5

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HPPTCL, Shimla-5

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DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

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12	Miscellaneous Items, Earthing Material and Erection Hardware such as BPI, Insulator Strings, 120 kN Disc Insulator, Hardware, Spacers, ACSR Moose Conductor(s), Cable Trays, Clamps, Connectors including Equipment Connectors, Junction Box, Earthwire, Lighting Protection, Burried Cable Trenches / Pipes for Equipment and Lighting, Cable Sealing Arrangement, nuts and bolts including all Accessories etc for completion of Scope of Work. Any material required to connect the system proposed in the scope with existing Substation Automation System including OFC shall be in the scope of bidder	Job	1	998739.00	100000.00	100000.00	18.00%	18000.00	118000.00		
13	LT SWICTHGEAR										
i	Main Switch Boards for 33 GIS as per Technical Specification: Section - 4 (ACDB)	Set	1	998739.00	10000.00	10000.00	18.00%	1800.00	11800.00		
14	TERTIARY FORMATION										
a)	Supply of material for delta & Neutral formation arrangement including conductor (TARATULLA), Post Insulators (11 kV) with creepage distance 31.5 mm/kV, Steel Structures, Aluminium Tubes 3" size or Aluminium flat of suitable size, PVC tape for 11 kV voltage level for covering the conductors or Aluminium tubeflats, Disc or Pin insulators and NCTs, Hardware assemblies, connectors as required to complete the system (excluding civil works and cables)	Set	1	998739.00	15000.00	15000.00	18.00%	2700.00	17700.00		
b)	Alternative arrangement for Delta & Neutral formation arrangement with cables or any other arrangement (tertiary is unloaded)	job	1	998739.00	15000.00	15000.00	18.00%	2700.00	17700.00		
15	ILLUMINATION SYSTEM										
i	Installation of items for Illumination with LED Luminaires in 33 kV GIS hall with PVC conduits including Luminaries, wires, Main Switches, distribution Boards etc, PVC Copper conductor cables, Conduits/Junction boxes, Main Swich Boards. The rates in above items shall cover all items required for Illumination of 33 kV GIS Hall	Job	1	998739.00	15000.00	15000.00	18.00%	2700.00	17700.00		
	NOTE: The wire size shall not be less than 2.5 sq. mm Copper Conductor. The cost of wires / cables to be used for wiring from Main Switch Board onwards shall be covered in this item.										
16	ANY OTHER ITEM WHICH IN THE OPINION OF THE BIDDER IS ESSENTIAL AND HE MAY LIKE TO QUOTE										
i						0.00		0.00	0.00		
ii						0.00		0.00	0.00		
iii						0.00		0.00	0.00		
iv						0.00		0.00	0.00		
v						0.00		0.00	0.00		
vi						0.00		0.00	0.00		
vii						0.00		0.00	0.00		
viii						0.00		0.00	0.00		
	CIVIL WORKS										
1	Cutting in Earth Work in all kinds of soil and disposal of excavated earth in all leads & lifts as per the direction of the Engineer- in- charge	cum	1000	995416.00	150.00	150000.00	18.00%	27000.00	177000.00		
2	Excavation in Foundations, in all kind of soil and rock , Trenches etc. in Earth Work, in all lifts stacking the excavated soil not more than 3 meters clear from the edge of the excavation and then returning the stacked soil in 15 cm layers, when required into Plinths sides of Foundations etc. consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated earth within all leads and lifts as per the directions of Engineer-in-charge.	cum	2000	995416.00	200.00	400000.00	18.00%	72000.00	472000.00		
3	Providing and Laying 1 : 3 :6 (1 Cement :3 Sand : 6 Graded Stone Aggregate 40 mm nominal size) and Curing complete excluding Cost of Form Work in Foundation and Plinth.	cum	100	995416.00	5200.00	520000.00	18.00%	93600.00	613600.00		
4	Providing and Laying reinforced Concrete Cement M25 (Design Mix with Graded Stone Aggregate 20 mm nominal size) and Curing complete excluding Cost of Form Work and Reinforcement for Reinforced Cement Concrete Work including admixtures/additives and as per directions of Engineer-in charge.	cum	100	995416.00	7000.00	700000.00	18.00%	126000.00	826000.00		
5	Providing and Laying reinforced Concrete Cement M20 (Design Mix with Graded Stone Aggregate 20 mm nominal size) and Curing complete excluding Cost of Form Work and Reinforcement for Reinforced Cement Concrete Work including admixtures/additives and as per directions of Engineer-in-charge.	cum	700	995416.00	6500.00	4550000.00	18.00%	819000.00	5369000.00		

Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. [illegible] Kumar
Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. [illegible]
DGM (C[illegible]
HPP[illegible]

General Manager (C&D)
HPPTCL, Shimla-5

29.3.19

6	Providing form work with steel plates 3.15 mm thick welded with angle iron in frame 30x30x5 mm so as to give a fair finish including centering, shuttering, strutting & propping etc. with wooden battens & battes in all heights and removal of the same for in site reinforced concrete & plain concrete work in Foundation, footings bases of columns etc. and mass concrete	sqm	2500	995416.00	375.00	937500.00	18.00%	168750.00	1106250.00		
7	Providing & Laying Damp Proof Course 50 mm thick with Cement Concrete, 1: 2: 4 (1 Cement: 2 Sand: 4 Stone Aggregate 12.5 mm nominal size) and Curing complete.	sqm	50	995416.00	375.00	18750.00	18.00%	3375.00	22125.00		
8	Providing and Laying Cement Concrete 1: 2: 4 (1 Cement: 2 Sand: 4 Sand Stone Aggregate 20 mm nominal size) and Curing complete excluding Cost of Form Work in Foundation and Plinth	cum	20	995416.00	6800.00	132600.00	18.00%	23760.00	156760.00		
9	Providing and Laying Cement Concrete 1: 5: 10 (1 Cement: 5 Sand: 10 graded Stone Aggregate 40 mm nominal size) and Curing complete excluding Cost of Centering and Shuttering in Foundation and Plinth.	cum	10	995416.00	5200.00	93600.00	18.00%	16848.00	110448.00		
10	Providing Mild / Tor Steel Reinforcement for R. C. C. Work including Bending, Binding and Placing in position complete for all heights.	MT	65	995416.00	65000.00	4225000.00	18.00%	760500.00	4985500.00		
11	Brick Work using Common Burnt Clay Building Bricks in										
a	Foundation and Plinth in Cement Mortar 1: 4 (1 Cement: 4 Sand) First Class Bricks	cum	30	995416.00	8000.00	240000.00	18.00%	43200.00	283200.00		
b	Super Structure above Plinth level upto all heights in Cement Mortar 1: 4 (1 Cement: 4 Sand) First Class Bricks	cum	130	995416.00	8250.00	1072500.00	18.00%	193050.00	1265550.00		
c	Half Brick Masonry in common burnt clay building bricks in C M 1 : 4 (1 Cement : 4 sand) up to all heights and as directed by Engineer-in-charge	sqm	150	995416.00	1200.00	180000.00	18.00%	32400.00	212400.00		
12	15 mm cement plaster in single coat on rough / fair side of brick /concrete /stone wall for interior plastering up to all heights including arises internal rounded angles chamfers and/or rounded angles not exceeding 80 cm in girth & finished even & smooth (in cement mortar 1 : 4 being 1 cement: 4 sand)	sqm	1200	995416.00	280.00	336000.00	18.00%	60480.00	396480.00		
13	20 mm cement plaster in two coats (8mm + 12mm) on rough / fair side of brick /concrete /stone wall for exterior plastering upto all heights including arise external rounded angles chamfers and/or rounded angles not exceeding 80 cm in girth & finished even & smooth (in cement mortar 1 : 3, 1 cement :3 sand for 8 mm outer layer and 12 mm base as 1:4 as above)	sqm	1200	995416.00	330.00	396000.00	18.00%	71280.00	467280.00		
14	6 mm cement plaster to ceiling in cement mortar 1 : 3 (1 cement : 3 sand)	sqm	250	995416.00	280.00	70000.00	18.00%	12600.00	82600.00		
15	Stone soling under floors as per directions of Engineer -in-charge	cum	15	995416.00	2500.00	187500.00	18.00%	33750.00	221250.00		
16	Providing and laying Sand filling under floors as directions of Engineer -in-charge.	cum	50	995416.00	2500.00	125000.00	18.00%	22500.00	147500.00		
17	50 mm thick cement concrete flooring with metalic concrete hardener topping under layer of 35 mm thick cement concrete 1:2:4 (1 Cement: 2 Sand : 4 Graded Stone aggregate 20 mm nominal size) and top layer of 15 mm thick metalic concrete hardener mix 1:2 (1 Cement hardener mix : 2 Stone aggregate 6 mm nominal size) by volume with metalic hardening compound of approved quality is mixed in the ratio 4:1 (4 parts of cement : 1 part of metalic floor hardening compound approved quality by weight including finishing complete	sqm	150	995416.00	600.00	90000.00	18.00%	16200.00	106200.00		
18	Distempering two coats with oil bond washable distemper of approved brand &manufacture of required shade on undecorated wall surfaces to give an even shade over & including a priming coat with distemper primer of approved brand & manufacture after thoroughly brushing the surface free from mortar droppings and other foreign matter and also including prepairing the surface even and sand papered smooth priming coat with distemper primer	sqm	1500	995416.00	150.00	225000.00	18.00%	40500.00	265500.00		
19	Finishing Wall with Water Proofing Cement Paint of approved Brand and Manufacture and of required Shade on undecorated Wall Surfaces (Two coats) to give an even Shade after thoroughly Brushing the surface to remove all Dirt, Loose or Softened Paint.	sqm	1500	995416.00	150.00	225000.00	18.00%	40500.00	265500.00		
20	Applying priming coat over new steel & other metal surfaces after & including preparing the surface by thoroughly cleaning of grease dirt & other foreign matter & scoured with wire brushes fine steel wool scrappers & sand papering complete with ready mixed priming paint brushing red lead oxide zinc oxide chrome	sqm	500	995416.00	125.00	62500.00	18.00%	11250.00	73750.00		
21	Painting two coats(excluding priming coat) on new steel & other metal surfaces with enamel paint brushing to give an even shade including cleaning th surfaces of all dirt dust &other foreign matter with enamel paint &other than white.	sqm	500	995416.00	165.00	82500.00	18.00%	14850.00	97350.00		

Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (C&D)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

22	Providing under layer for plinth protection of 75 mm thick (unconsolidated) bed dry brick/ stone aggregate 40mm nominal size well rammed and consolidated and ground with 6ins sand including preparation of ground.	sqm	75	995416.00	120.00	9000.00	18.00%	1620.00	10620.00		
23	Providing plinth protection 50 mm thick in cement concrete 1:2:4 (1 cement 2 sand :4 graded stone aggregate of 20 mm (nominal size)	sqm	75	995416.00	410.00	30750.00	18.00%	5535.00	36285.00		
24	Prov. & fixing anodized Aluminium doors, windows ventilators and glazed partitions with extruded built up section standard tubular and other sections of approved make confirming to IS:733 and IS: 1285 anodized transparent or dyed to required shade according to IS 1868 (minimum Anodic coating of grade AC 15) fixed with Rawl plugs and screws or with fixing clips or with expansion board fasteners I/C necessary filling up of gaps at junctions at top bottom and sides with required PVC / neoprene flat etc. Aluminium sections shall be smooth, rust free, straight and jointed mechanically wherever required I/c cleat angles aluminium snap beading for glazing , paneling C.P brass stainless steel screws or complete as per architectural drawings and directions of Engineer -in -charge										
a	For door windows and ventilators and glazed partition frames	Kg	800	995416.00	470.00	376000.00	18.00%	67680.00	443680.00		
b	For Shutters of Doors, Windows and ventilators including providing and fixing wire gauge shutters as per requirement hinges /pivots and making provision of putty wherever required including the cost of PVC/ Neoprene Gaskets required (fitting & Glazing / paneling shall be paid for separately)	Kg	250	995416.00	500.00	125000.00	18.00%	22500.00	147500.00		
25	Providing & fixing glazing in aluminium doors ,windows , ventilators shutters and partitions etc. with PVC/ Neoprene gaskets etc complete as per the architectural drawings and the directions of Engineer -in -charge (Cost of Aluminum snap beading shall be paid in basic item) .										
a	Glazing with glass pane of 5.50 mm thickness (weight not less than 13.75 Kg / Sqm.) Toughened glass for Non AC Room	sqm	50	995416.00	1300.00	65000.00	18.00%	11700.00	76700.00		
26	Providing & fixing Double action hydraulic floor spring of approved brand & manufacture (confirming to IS 6315 for Aluminium doors cost of cutting floor as required embedding in floors & cover plates etc complete as per the direction of Engineer -in charge	No	5	995416.00	7500.00	37500.00	18.00%	6750.00	44250.00		
27	Particle board phenol bonded exterior/interior grade in partitions 12 mm thick.	sqm	20	995416.00	1000.00	20000.00	18.00%	3600.00	23600.00		
28	Steel work welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of red lead paint										
a)	In beams pilas channels, angles, ties, flats, chequred plate, NG rails etc with connection plates or angle cleats as in main and cross beams hip and jack rafters, purlins connected to common rafters and like	MT	10	995416.00	75000.00	750000.00	18.00%	135000.00	885000.00		
b)	Steel work welded in built up sections in gratings framed guard bars, ladders, railings, brackets and similar works.	MT	5	995416.00	75000.00	375000.00	18.00%	67500.00	442500.00		
29	Steel work in single sections, including cutting hoisting fixing in position and applying a priming coat of red lead paint in RS Joists ,channels angles, Tees flats , trussed purlins etc as per directions of Engineer-in-charge	MT	10	995416.00	75000.00	750000.00	18.00%	135000.00	885000.00		
30	Random rubble masonry / polygonal rubble masonry (uncoursed / brought to courses) with hard stone of approved quality in foundation and plinth including leveling up with cement concrete 1:6:12 (1 cement 6 sand 12 graded stone aggregate 20 mm nominal size) in cement mortar 1:6 (1 cement: 6 sand)										
a	In foundations and plinth	cum	50	995416.00	3400.00	170000.00	18.00%	30600.00	200600.00		
b	In breast walls and retaining walls	cum	100	995416.00	3400.00	340000.00	18.00%	61200.00	401200.00		
31	Stone filling behind retaining walls as per direction of EIC	cum	50	995416.00	2300.00	115000.00	18.00%	20700.00	135700.00		
32	Providing and Laying Stone filling 40mm size for transformer/reactor foundation	cum	120	995416.00	2300.00	276000.00	18.00%	49680.00	325680.00		
33	Stone Soling properly hand packed filling interstices with spalls and consolidating with Power Road Roller to the required gradient and camber including Spreading, Watering and Rolling of Binding Materials Moorum or Earth etc as per directions of Engineer-in-charge.	cum	200	995416.00	3000.00	600000.00	18.00%	108000.00	708000.00		
34	Excavation for road way in all kinds of soil such as pick work ,jumper work blasting work hard or soft chiseling etc in all heights and depths using manual means for carrying of cut earth to embankment site within all leads and lifts as per technical specification including entire carriage of material in all leads and lifts as per the direction to Engineer -in -charge	cum	150	995416.00	300.00	45000.00	18.00%	8100.00	53100.00		

Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

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Sr. Man[illegible] (Contract)
HPPTCL, Shimla-5

[illegible] Sharma
(Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

35	Proving laying & spreading and compacting 100mm thick Grade-I stone aggregate of 90mm to 40mm size to water bound macadam specification including spreading in uniform thickness hand packing rolling with thre wheel 80-100KN static roller in stages to proper grade & camber applying and booming stone screening /binding material to fill up the interstices of coarse aggregate water & compacting required density grading -1 as per technical specifications by manual means vic entire carriage of material in all leads and lifts as per the direction of Engineer - in Charge.	cum	30	995416.00	2200.00	66000.00	18.00%	11880.00	77880.00		
36	Proving laying & spreading and compacting 75mm thick Grade-II stone aggregate 53 to 40mm size of water bound macadam specification including spreading in uniform thickness hand packing rolling with smooth wheel roller 80 100KN in stages to proper grade and chamber and booming stone screening/binding material to fill up the interstice of coarse aggregate watering and compacting to the required density grading - 2 as per technical specification by mechanical means including entire carriage of material in all leads and lifts as per the direction of Engineer in charge	cum	25	995416.00	2400.00	60000.00	18.00%	10800.00	70800.00		
37	Proving laying & spreading and compacting 75mm thick Grade-II stone aggregate 50 to 25 mm size of water bound macadam specification including spreading in uniform thickness hand packing rolling with smooth wheel roller 80-100KN in stages to proper grade and chamber and booming stone screening/binding material to fill up the interstice of coarse aggregate watering and compacting to the required density grading -3 as per technical specification by mechanical means including entire carriage of material in all leads and lifts as per the direction of Engineer in charge	cum	25	995416.00	2800.00	70000.00	18.00%	12600.00	82600.00		
38	Providing and applying tack coat with bitumen i e VG 10 ro S 90 or RS-1 emulsion using emulsion distributor at the rate of 0.25 to 0.30Kg per Sqm on the prepared granular surface cleaned with Hydraulic broom as per technical specification clause 503	Sq mtr	250	995416.00	75.00	18750.00	18.00%	3375.00	22125.00		
39	Providing Laying and Rolling of open graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregate either using penetration grade bitumen at the rate of 1.46 Kg /sq mtr to required line grade and level to serve as wearing coarse on a previously prepared base vic mixing in a suitable plant laying and rolling with a 3 wheel 80-100 Kn stattics,s Roller capacity finished to required level and grades to be followed by seal coat of type-BI by manual means)bitumen VG -10 or S-90 vic entire carriage of material in all leads and lifts as per the instructions of Engineer in charge	Sq mtr	250	995416.00	275.00	68750.00	18.00%	12375.00	81125.00		
40	Providing and Laying seal Coat sealing the voids in a bituminous surface laid to the specific levels grade and cross fall using type B as per technical specifications clause 510 (by manual Meanes)Bitumen Vg 10 or S-90 using @ 0.66 Kg per Sqm (zero point six eight kilogramme per square metre) including entire carriage of materials in all leads and lifts as per the direction of Engineer in charge	Sq.mtr	250	995416.00	100.00	25000.00	18.00%	4500.00	29500.00		
41	Providing Stone Khanja drain of 45 cm wide including 25 cm side stone laid in cement mortar 1:6 (1 cement :6 sand) complete as HPPWD specificaton	Rmtr.	100	995416.00	1300.00	130000.00	18.00%	23400.00	153400.00		
42	Excavation in earth work & banking in 20 cm . Layer including breaking clouds &compacing with Road Rollers to attain the bearing capacity of soil at the required level including filling up ground depressions and to achieve the required resistivity and proposed level as per site requirement within all leads and lifts as per the directions of Engineer in Charge.	cum	50	995416.00	650.00	32500.00	18.00%	5850.00	38350.00		
43	P/L 12 mm thick Bitumen Impregnated fiber board for expansion joints as per directions of EIC	Rmtr	25	995416.00	250.00	6250.00	18.00%	1125.00	7375.00		
44	P/L Bitumen joint sealant in expansion and contraction joints of Concrete roads as per directions of EIC	Rmtr	25	995416.00	150.00	3750.00	18.00%	675.00	4425.00		
	ANTIWEED TREATMENT										
45	Providing and Supplying all Labour Material Equipments etc Excavation Mixing / Injecting Chemicals to achieve the guaranteed effectiveness of Treatment at least upto three years Rolling, Dressing Compacting the Excavated Earth within Sub Station Area excluding cement concrete as per directions of EIC	sqm	1000	995416.00	80.00	80000.00	18.00%	14400.00	94400.00		

S. Sahil Verma
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HPPTCL, Shimla-5

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HPPTCL, Shimla-5

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DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

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46	Providing and laying cement concrete 1:5:10 (1 cement: 5 sand: 10 graded stone aggregate 40 mm nominal size) and surrig cumpleter excluding cost of form work in foundation and plinth with the layer of cement slurry 1:6	cum	75	995416.00	4800.00	360000.00	18.00%	64800.00	424800.00		
	SITE SURFACING										
47	Providing, Supplying and Laying three layers of Uncrushed / Crushed Stone Pebbles (Gravel) Fill in the first layer after compaction shall make minimum 50 mm thickness course / layer of 20 mm nominal size, Consolidated / Compacted and Rolled as per Specifications	sqm	1000	995416.00	290.00	290000.00	18.00%	52200.00	342200.00		
48	Constructing coarse rubble hammer dressed U shape open surface drain with side wall 15x22 cm in cement mortar 1:6 (1 cement : 6 Sand) & inside plastering with cement mortar 1:3 (1cement 3sand) including earth work &laying 10 cm cement concrete in 1:5:10 (1cement 5 sand 10 graded stone aggregate of 40 mm nominal size) and 7.5 cm cement concrete 1:2:4 (1 cement 2sand 4 graded stone aggregate of 20mm nominal size) and finished with a floating coat of neat cement complete was per standard design	Rmtr	700	995416.00	3100.00	310000.00	18.00%	55800.00	365800.00		
49	Providing laying (to level or slopes) and jointing reinforced concrete heavy duty non - pressure pipes IS class NP 2 of the following internal diameter with flush joints including testing of joints complete.										
a	250mm	Rmtr	50	995416.00	1600.00	80000.00	18.00%	14400.00	94400.00		
b	300mm	Rmtr	50	995416.00	1800.00	90000.00	18.00%	16200.00	106200.00		
c	450mm	Rmtr	50	995416.00	2150.00	107500.00	18.00%	19350.00	126850.00		
50	Providing laying (to level or slopes) and jointing reinforced concrete heavy duty non - pressure pipes IS class NP 3 of the following internal diameter with flush joints including testing of joints complete.										
a	450mm	Rmtr	40	995416.00	3200.00	128000.00	18.00%	23040.00	151040.00		
b	600mm	Rmtr	45	995416.00	4800.00	216000.00	18.00%	38880.00	254880.00		
51	Providing and fixing on wall face PVC Rain water pipes including fitting the joints with spun yarn and cement mortar 1:2 (1 cement : 2 sand) 100 mm dia	Rmtr	75	995416.00	500.00	37500.00	18.00%	6750.00	44250.00		
52	Providing and fixing 0.50mm thick prepainted steel sheet in roofing with hot dipped mettalic zinc coated sheet with top coat of regular modified polyster (RMP) orghanic coating of 20 microns over 5 microns primer coating to back coat of polyster of 5 microns over 5 microns primer coating including fixing with prepainted iron J or L hooks, bolts and nuts 6mm diameter eith prepainted limpet and rubber washers complete with all accessories as require as per the direction of Engineer-in- charge.	sqm	500	995416.00	850.00	425000.00	18.00%	76500.00	501500.00		
53	Providing and fixing ridges or hips 60 cm overall with 0.60 mm thick prepainted steel sheets in roofing with hot dipped metallic zinc coated sheets with top coat of regular modified polyster organic coating of 20 mic rons over 5 microns primer coating + back coat of polyster of 5 microns over 5 microns primer coating including fixing with prepainted iron J or L hooks, bolts and nuts 6mm dia and prepainted GI limpet and bitumen washers complete with all accessories as required as per the direction of Engineer -in- charge.	rmt	75	995416.00	850.00	63750.00	18.00%	11475.00	75225.00		
54	Providing and fixing 15 cm. Wide 45 cm. Overall semicircular prepainted steeel Shest gutter with iron brackets 40x3 mm size bolts and nuts and washers etc including making necessary conections with rain water pipe complete as per design- 0.60mm thick sheet	rmt	70	995416.00	580.00	40600.00	18.00%	7308.00	47908.00		
55	P/L PVC pipe 300 mm dia complete in all respects as directed by EIC	Rmtr	60	995416.00	1300.00	78000.00	18.00%	14040.00	92040.00		
56	P/L 100 mm dia PVC pipes as per directions of EIC in weep holes of retaining/breast walls etc	Rmtr	50	995416.00	1000.00	50000.00	18.00%	9000.00	59000.00		
57	P/L 75/50 mm dia PVC pipes as per directions of EIC in weep holes of cable trenches	Rmtr	40	995416.00	700.00	28000.00	18.00%	5040.00	33040.00		
58	Providing,fixingand jointing 230mm wideand 10mm thick PVC water stop seal conforming to IS/ Technical specifications and directions of EIC.	Rmtr	20	995416.00	850.00	17000.00	18.00%	3060.00	20060.00		
59	Wire crates of G.I. Wire filled with boulders with square cut faces against the (wire crates to be measured and paid for separately).	cum	40	995416.00	2500.00	100000.00	18.00%	18000.00	118000.00		
60	G.I. Wire 4 mm thick corresponding to SWG-8 15cmx15cm mesh	sqm	250	995416.00	300.00	75000.00	18.00%	13500.00	88500.00		

Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Aman
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

20/43

61	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C kerb stone shall be approved by Engineer in-charge).	Rmtr	60	995416.00	700.00	42000.00	18.00%	7560.00	49560.00		
62	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc all complete as per the direction of Engineer-in charge	sqm	250	995416.00	800.00	200000.00	18.00%	36000.00	236000.00		
63	Road cum rail track complete in all aspects.	Rmtr	55	995416.00	10000.00	550000.00	18.00%	99000.00	649000.00		
64	Supplying and Fixing Rolling Shutters of approved Make, made of 80 mm x 1.25 mm M. S. Laths interlocked together through their entire length and joined together at the end by End Locks mounted on specially designed Pipe Shaft, with Brackets, Side Guides and arrangements for inside and outside locking with push pull operation complete but including the cost of the top cover and spring.	sqm	40	995416.00	4000.00	160000.00	18.00%	28800.00	188800.00		
65	Supplying and Fixing Galvanized Steel Barbed Wire (IS: 278 - 1962 Type - I) weighing 9.38 kg per 100 metres (minimum). Straining and Fixing to any type of Standard Rails. Straining Bolts including securing with and provision of Galvanized Mild Steel Wire staples or steel pins etc as directed. (Posts and struts of wood concrete ,steel etc and straining bolts shall be paid for separately.	Rmtr	150	995416.00	15.00	2250.00	18.00%	405.00	2655.00		
66	Providing and fixing Chain link fencing 2.40m height complete in all respects including posts/struts etc as per directions of Engineer-in-charge.	Rmtr	250	995416.00	2800.00	700000.00	18.00%	126000.00	826000.00		
67	Providing and laying CI pipes including all pipe fittings and jointing in required grade for external sewerage system										
a)	150 mm	Rmtr	100	995416.00	2200.00	220000.00	18.00%	39600.00	259600.00		
b)	100 mm	Rmtr	100	995416.00	1300.00	130000.00	18.00%	23400.00	153400.00		
68	White washing with lime on undercoated wall surfaces two coats to give and even shade including throughly brooming the surface to remove all dirt dust mortar dirt and other foreign matter	sqm	1000	995416.00	80.00	80000.00	18.00%	14400.00	94400.00		
69	Anti Termite chemical treatment as per IS: 6313 and other relavent Indian standards/ Technical specifications and as per directions of EIC	Job	1	995416.00	75000.00	75000.00	18.00%	13500.00	88500.00		
70	**Any other items required for completion of work add yourself as this schedule is binding and final with no hidden items whatsoever to be done is NOT payable for civil work as extra as per final discretion of Engineer- in-charge**										
i						0.00		0.00	0.00		
ii						0.00		0.00	0.00		
iii						0.00		0.00	0.00		
iv						0.00		0.00	0.00		
	TOTAL Column 7 to be carried forward to Schedule No.7, Grand Summary				✓	28953700.00		5211666.00	34165366.00		
	TOTAL COST (IN WORDS)	Two Crore Eighty Nine Lacs Fifty Three Thousand Seven Hundred Only									

NOTE:

1. ***Above Quantities are Tentative and may vary during detailed engineering of Project. However, these shall be considered for Evaluation of Bid.***
2. ***The payment to the Contractor shall be made as per approved Bill of Material after detailed engineering on the Unit Rates quoted by him, hence the Bidder is advised to quote***
3. ***Any item not quoted by the Bidder but required for successful completion and commissioning of the Scope of Work shall be deemed to have been covered in other items***

Name of Bidder	Kanohar Electricals Limited
Name	Neeraj Mittal
Designation	Sr. Divisional marketing Manager

Prepared by:-
S. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Checked by:-
Er. Aman kumar
Sr. Manager (Contract)
HPPTCL, Shimla-5

Verified by:-
Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

Schedule No. 5

TENDER DOCUMENT No. 17 - ES / NFW / HPPTCL / 132/220 KV Additional Cleaver SStn

Training Charges

Name of Firm: Kanohar Electricals Limited

Sr No	Description	Country where Training is to be imparted	SAC Code	Number of Trainees	Training Duration: Per Person	Training Duration: Man working days	Training Abroad: Unit Price (USD)	Training Abroad: Total Price (USD)	Training in India: Unit Price (INR)	Training in India: Total Price (INR)	Goods & Service Tax: Rate	Goods & Service Tax: Amount (USD)	Goods & Service Tax: Amount (INR)	Amount including GST (USD)	Amount including GST (INR)	Currency for Payment	Remarks
1	2	3	4	5	6	7=5x6	8	9=7x8	10	11=7x10	12	13=(9x12)	14=(11x12)	15=9+13	16=11+14	17	18
1	Design, Operation and Maintenance including Procedures for Fault attending and replacement of parts at Manufacturer's / Suppliers Works as per following:																
a)	O&M of GIS	INDIA	998736.01	3	5	15	0.00	0.00	15000.00	225000.00	18.00%	0.00	27000.00	0.00	225000.00	INR	As per
b)	Transformer maintenance	INDIA	998736.01	3	5	15	0.00	0.00	15000.00	225000.00	18.00%	0.00	27000.00	0.00	225000.00	INR	As per
c)	Protection system	INDIA	998736.01	3	5	15	0.00	0.00	15000.00	225000.00	18.00%	0.00	27000.00	0.00	225000.00	INR	As per
d)	SCADA & Automation	Not applicable	998736.01	3	5	15	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		
e)	OPTI CC FIBRE Communication Projects	Not applicable	998736.01	3	5	15	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		
TOTAL Column 9 & 11 to be carried forward to Schedule No.								0.00		450000.00		0.00	81000.00	0.00	531000.00		
Total in Words		Four Lacs Fifty Thousand Only															

Name of Bidder: Kanohar Electricals Limited

Name: Neeta Mitra

Designation: Sr. Divisional Manager

Prepared by:-
Sahil
S. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Checked by:-
A
Er. Aman Kumar
Sr. M... (Contract)
HPPTCL, Shimla-5

Verified by:-
Sharma
Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

Schedule No - 7			
TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor S/Stn			
GRAND SUMMARY			
Name of Firm:		Kanohar Electricals Limited	
Schedule No.	Title	Total [1]	
		Foreign	Local
		in USD	in INR
1	Plant and Mandatory Spare Parts Supplied from Abroad	0.00	0.00
2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country	NIL	275,292,153.50
3	Design Services	0.00	50,000.00
4	Local transportation including port clearance and port charges and Inland Insurance Services	NIL	0.00
5	Installation and other Services including civil works	NIL	28,953,700.00
6	Training Changes (in India & Abroad)	0.00	450,000.00
SUB TOTAL for evaluation of Bids		0.00	304,745,853.50
9	Taxes and Duties	0.00	54,854,253.63
GRAND TOTAL to be carried forward to Letter of		**0.00**	**359,600,107.13**
TOTAL IN WORDS (USD)		Not applicable	
TOTAL IN WORDS (INR)		Thirty Five Crore Ninety Six Lacs One Hundred Seven and Thirteen Paisa Only	
Name of Bidder		Kanohar Electricals Limited	
Name		Neeraj Mittal	
Desgination		Sr. Divisional Marketing Manager	

[1] *Specify currency in accordance with ITB 19. Create additional columns for foreign currency up to a maximum number of foreign currencies if so required.*

Prepared by:
Sahil
B. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Checked by:
Er. Ankit kumar
Sr. Manager (Contract)
HPPTCL, Shimla-5

Verified by:
Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

Type Test
47/53

Schedule No - 8

TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor S/Stn

RECOMMENDED SPARE PARTS AND TYPE TEST CHARGES OF GIS

Name of Firm:		Kanohar Electricals Limited					
Item	Description	Qty.	Unit Price[1]		Total Price[1]		Remarks
			EXW	CIP			
			Local Parts	Imported Parts	Local Currency Portion	Foreign Currency Portion in USD	
			Local Currency in INR	Foreign Currency lin USD			
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5	8
	NOT APPLICABLE				0.00	0.00	
					0.00	0.00	
					0.00	0.00	
					0.00	0.00	
					0.00	0.00	
					0.00	0.00	
					0.00	0.00	
					0.00	0.00	
					0.00	0.00	
					0.00	0.00	
					0.00	0.00	
					0.00	0.00	
					0.00	0.00	
					0.00	0.00	
					0.00	0.00	
	TOTAL				0.00	0.00	
	Name of Bidder	Kanohar Electricals Limited					
	Name	Neeraj Mittal					
	Designation	Sr. Divisional Marketing Manager					
[1] *Specify currency in accordance with ITB 19.*		INR					

Prepared by:
Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Checked by:
Er. Aman Kumar
Sr. Manager (Contract)
HPPTCL, Shimla-5

Verified by:
Er. [illegible] Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

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Taxes

48/53

Schedule No - 9

TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor S/Stn

TAXES AND DUTIES

Name of Firm:		Kanohar Electricals Limited				
ITEM	DESCRIPTION OF TAXES / DUTIES /	TOTAL AMOUNT APPLICABLE FOR		TOTAL[1] TAX / DUTY / LEVY PAYABLE		Remarks
		(USD)	(INR)	(USD)	(INR)	
1	2	3	4	5	6	7
Schedule-1 For Plant, Equipment and mandatory Spares to be supplied from abroad						
1.00	Goods & Services Tax	0.00	0.00	0.00	0.00	
Schedule-2 For Plant, Equipment and mandatory Spares to be supplied within the Employer's Country						
1.00	Goods & Services Tax	NA	275292153.50	NA	49552587.63	
Schedule-3 Design Services						
1.00	Goods & Services Tax	0.00	50000.00	0.00	9000.00	
Schedule-4 Local transportation including port clearance and port charges and Inland Insurance Services						
1.00	Goods & Services Tax	NA	0.00	NA	0.00	
Schedule-5 Installation and other Services including civil works						
1.00	Goods & Services Tax	NA	28953700.00	NA	5211666.00	
Schedule-6 Training Charges						
1.00	Goods & Services Tax	0.00	450000.00	0.00	81000.00	
TOTAL Columns 4 to be carried				0.00	54,854,253.63	
Name of Bidder		Kanohar Electricals Limited				
Name		Neeraj Mittal				
Designation		Sr. Divisional Marketing Manager				
[1]*Specify currency in accordance*		INR				

Prepared by:
Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Checked by:
Er. Aman Kumar
Sr. Manager (Contract)
HPPTCL, Shimla-5

Verified by:
Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

Clarifications

49/53

TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor S/Stn		
Any Clarifications raised / proposed by Bidder in Price Bid		
Name of Firm:	KANOHAR ELECTRICALS LIMITED	
S. No.	DESCRIPTION	Remarks
	NIL	
Name of Bidder	Kanohar Electricals Limited	
Name	Neeraj Mittal	
Desgination	Sr. Divisional Marketing Manager	

Prepared by:-

Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Checked by:-

Er. Aman kumar
Sr. Manager (Contract)
HPPTCL, Shimla-5

Verified by:-

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

20.49

Schedule- G.Loss

TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor S/Stn

GUARANTEES LOSS OF TRANSFORMERS

Name of firm							M/s Kanohar Electricals Limited in Collaboration with M/s Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan)	
SR. NO.	EQUIPMENT	PARAMETER TO BE TAKEN FOR LEVY OF LIQUDATED DAMAGES FOR FAILURE TO ATTAIN THE GUARANTEES	Currency	RATE OF LIQUIDATED DAMAGES	UNIT	QTY	Unit Quoted Loss (in KW)	Total Loss (5*7*8)
1	2	3	4	5	6	7	8	9
1	26.66/33.33 MVA,11/33/220 kV, ONAN / ONAF, Single-phase Power Transformer	Load/ Copper Loss (kW)	INR	206,724	Nos	4	81.00	66,978,576.00
		Iron Loss (kW)	INR	506,676	Nos	4	20.30	41,142,091.20
		Auxiliary Loss (kW)	INR	202,670	Nos	4	1.50	1,216,020.00
2	250 kVA, 33/0.4 kV, 3-Phase Station Auxiliary Transformer	Load/ Copper Loss (kW)	INR	206,724	Nos	1	8.50	1,757,154.00
		Iron Loss (kW)	INR	506,676	Nos	1	1.40	709,346.40
		Auxiliary Loss (kW)	INR	202,670	Nos	1	0.00	0.00
	TOTAL (In INR)							**111,803,187.60**

Prepared by:-

Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Checked by:-

Er. Arhan kumar
Sr. Manager (Contract)
HPPTCL, Shimla-5

Verified by:-

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

AECOM

51/53

Ref. No. AECOM/Power/HPPTCL/Shimla/2019 - 520 Dated: 27.02.2019

To

The DGM (Contracts),HPPTCL
Himfed Bhawan, Panjari,
Shimla-171005.

Subject:- Price Bid Evaluation for construction of additional Charor 33/220kV Substation (KfW Funded) against Tender Document No:17-SS/KfW/HPPTCL/33/220 KV Charor Substation

Sir,

We have received and reviewed the price bid in response to the the aforesaid bids for [illegible] order, in general.

However, on the basis of evaluation report, eligibility criteria and procurement guidelines, the bid cost (INRs 35,96,00,107.13) quoted by the bidder M/s Kanohar Electrical Ltd. U.P is 16.04% above than the NIT cost (INRs 30.99 Crs.) but it is 10.10% below than the DPR cost (INRs 40.01 Crs.).

Therefore, in our opinion,the award may kindly be placed to the firm.

Submitted for your further action please.

Yours Sincerely

Team Leader
Green Energy Corridor
AECOM, Shimla, HP

Copy forwarded for information & necessary action to the following :-

1) The DGM (Project),HPPTCL,Himfed Bhawan, Panjari Shimla-171005
2) The Senior manager (Contract), Cum Nodal Officer,HPPTCL,Himfed Bhawan, Panjari, Shimla-171005.

General Manager (C&D)
HPPTCL, Shimla-5

29.57

Abstract of Difference in Rates Quoted for ADB - 220/132kV Charor and 33/220kV Additional Charor - KfW

Sr. No.	Item	220/132kV Charor- ADB	220/33kV Additional Charor- KfW	Difference	%age Higher than Charor -ADB
		Unit Price (INR)	Unit Price (INR)	INR	%
1	**POWER TRANSFORMER**				
	26.66/33.33 MVA,11/33/220 kV, ONAN / ONAF, Single phase Power Transformer including 220 kV and 33 kV oil/air bushing complete with all accessories including Fibre Optic Temperature Measuring System and first oil filling with 10% extra oil with RTCC panel complete in all respects. (Tertiary at 11 KV shall not be loaded) including Online DGA Set and Insulating Oil Dry out System for Main + OLTC Tank complete in all respects.		37310000	7440000	6.99
	25.56/34.08/42.60 MVA, 33/132/220KV, Vector Group YNaOd11, % Impedence 12.5 ± 10% HV-LV, 38±15% HV-LV, 22±15% IV-LV, Single phase auto power transformer with 33KV tertiary loaded up to 250KVA, ONAN/ONAF/OFAF including 220KV, 132KV and 33KV oil/air bushing, accessories and first oil filling with 10% extra oil with RTCC panel including online DGA system and insulating oil drying system complete in all respects.	34870000			
2	**NIFPS**				
	Nitrogen injection fire prevention and extinguishing system complete in all respects		1440000	488000	51.26
	Nitrogen injection fire prevention and extinguishing system for single phase auto transformers	952000			
3	**STATION TRANSFORMER**				
	250 kVA, 33/0.4 kV, 3 Phase Station Auxiliary Transformer including 33 kV SF-6 to cable termination, cable box for LT termination, accessories and first oil filling with 10% extra oil.		1054000	504000	91.84
	250KVA, 33/0.433 KV, 3 Phase Station Auxiliary Transformer including cable box for LT termination, 33KV oil/air bushing, accessories and first oil filling with 10% extra oil.	550000			
4	**220 KV GIS EQUIPMENT**				
a.	**TRANSFORMER CIRCUIT BREAKER BAY MODULE**				
	245 kV, 2000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF6 Gas Insulated Transformer Circuit Breaker Bay Module each comprising of SF6 Gas insulated Circuit Breaker (2000 A), Current Transformers (Ratio: 600-300 / 1 - 1 - 1 - 1 - 1 A), Isolator / Disconnector Switches (2000 A) complete with Safety Earth Switch complete with Manual and Motor Driven Operating Mechanisms, Local Control Cubicle (LCC), SF6 Gas Monitoring System for complete Bay, Single Phase SF6 Ducts and Gas Insulated Terminal Connection (SF6 / Air interface along with all Accessories) for connecting 80/100 MVA, Single-phase Power Transformers Bank with 220 kV GIS through Gas Insulated Interconnection Bus and Accessories, etc complete in all respects		31810000	11044354	53.19
	245 kV, 2000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF_6 Gas Insulated Transformer Circuit Breaker Bay Module each comprising of SF_6 Gas Insulated Circuit Breaker (2 000 A), Current Transformers **(Ratio: 800 - 400 /** 1 - 1 - 1 - 1 - 1 - 1 A), Isolator / Disconnector Switches **(2,000 A)** complete with Safety Earth Switch complete with Manual and Motor Driven Operating Mechanisms, Local Control Cubicle SF_6 Gas Monitoring System for complete Bay, Single Phase SF_6 Ducts and Gas Insulated Terminal Connection (SF_6 / Air interface alongwith all Accessories) for connecting 25.56/34.08/42.6 MVA, single phase bank of 33/132/220KV, Auto Transformers with 220 kV GIS through Gas Insulated Interconnection Bus and Accessories, etc **complete in all respects**	20765646			

Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Aman kumar
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

b.	245 KV AUXILIARY BUS BAY MODULE FOR SPARE TRANSFORMER				
	245 kV, Single Phase, 2000 A, 50 kA for 3.0 seconds, Auxiliary Bus Bar Enclosure running across the length of the Switchgear to interconnect the Spare Unit of 11/33 / 220 kV, Single Phase Power Transformers Bank with 220 kV GIS, Transformer Bay Module through GIS Duct having Single Phase, 2000 A, SF6 Gas Breaker, single phase Current Transformers (Ratio: 600 - 300 / 1 - 1 - 1 - 1 - 1 A), Single Pole operated 2000 A Safety Grounding Switches complete with Manual and Motor Driven Operating Mechanism, Local Control Cubicle (if required), SF6 Gas Monitoring System for complete Bay, Single Phase GIS Duct, 2000 A and Gas Insulated Terminal Connection (SF6 / Air Interface along with all Accessories) for connecting Spare Single Phase Power Transformer with GIS through Gas Insulated Interconnection Bus and Accessories etc complete in all respects.		19548900	9648966	97.45
	Single Phase, 4 000 A, 50 kA for 3.0 seconds, Auxiliary Bus Bar Enclosure running across the length of the Switchgear to interconnect the Spare Unit of 33/132/220 kV, Single Phase Auto Transformers Bank with 220 kV GIS, Transformer Bay Module through GIS Duct having Single Pole, 2000 A, SF_6 Gas Breaker, Current Transformer (Ratio:- 800-400/ 1 - 1 - 1 - 1 - 1 - 1 A), Single Pole operated 2,000 A Safety Grounding Switches complete with Manual and Motor Driven Operating Mechanism, Local Control Cubicle, SF_6 Gas Monitoring System for complete Bay, Single Phase GIS Duct (2,000 A) and 2000 A Gas Insulated Terminal Connection (SF_6 / Air Interface alongwith all Accessories) for connecting Outdoor Spare Single Phase Auto Transformer with 220 kV GIS through Gas Insulated Interconnection Bus and Accessories etc complete in all respects.	9899934			
5	CONTROL RELAY AND PROTECTION PANELS				
	220 KV CONTROL RELAY PROTECTION PANEL				
	Transformer Protection Control and Relay Panel (HV side of 26.68/33.33 MVA, 33 / 220 kV single-phase Power Transformers bank)		1500000	429000	40.06
	Tranformer protection panel (HV side of 25.56/34.08/42.6 MVA power transformer)	1071000			
	MANDATORY SPARES				
6	220 KV ISOLATOR AND EARTH SWITCH				
a.	Complete set of 1 Nos. of three phase disconnector i/c main circuit enclosure and driving mechanism		1178719	258745	28.13
	Complete set of 3 Nos. of single phase/1 Nos. of three phase disconnector i/c main circuit enclosure and driving mechanism	919974			
b.	Complete set of 1 Nos. of three phase earthing switch i/c main circuit enclosure and driving mechanism		1161906	252854	28.12
	Complete set of 3 Nos. of single phase/1 Nos. of three phase earthing switch i/c main circuit enclosure and driving mechanism	899052			
7	SPARES FOR RELAY AND PROTECTION PANELS				
	Numerical Transformer Differential Relay		312500	193500	162.61
	Numerical Differential Relay with Software (excluding external Trip Relay)	119000			
	TOTAL	70046606	95306025	25259419	

Dy. Manager (Contract)
HPPTCL, Shimla-5

Er. Aman Kumar
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

HPPTCL
Web: - www.hpptcl.com

HIMACHAL PRADESH POWER TRANSMISSION CORPORATION LTD.

(A State Govt. Undertaking)
Regd. Office: Himfed Bhawan, New ISBT Road,Panjari, Shimla-171005
Ph.:- 0177-2631283, 2631284 FAX:-0177-2631284
(CIN):U40101HP2008SGC030950
(GSTIN):02AACCH1548M1ZP

No. HPPTCL/Contracts/KfW/33/220 kV Add Charor S/Stn/ 2018 -19 12795 16 **January, 2019**

To

Mr. Patrick Hamann
Procurement Manager, South and East Asia
KfW Bankengruppe, Palmengartenstrasse 5-9,
60325 Frankfurt, Germany

Subject: **German Financial Cooperation with India** – Green Energy Corridors, Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh (India)" on Turnkey Basis; **Technical Bid evaluation report thereof.**

Dear Sir,

In accordance with the provisions of the Loan Agreement, we have invited Bids for the above Contract following the Procedure of the KfW. We are submitting herewith the Bid Evaluation Report (Techno Commercial Proposals) under Bid No. 17-SS/KFW/HPPTCL/33/220 KV Add Charor S/Stn **"Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh (India)" on Turnkey Basis** for KfW's review and approval. TBER carries the consent dated 04/01/2019 of our Project Implementation Consultant i.e. M/s AECOM Asia Limited. (APPENDIX-8)

It is also to submit that:

1. The Bidder is already executing the 132/220kV portion of Charor Substation funded by ADB and HPPTCL is comfortable in working with them.
2. However as this bid is for extended part of existing 132/220kV substation Charor under construction, hence there are some inherent advantages to the bidder.

Your early reply to this matter will be appreciated.

Yours faithfully,

Attachment: Bid Evaluation Report

Er. K.N. Sharma
DGM (Contracts)

General Manager (C&D)
HPPTCL, Shimla-5

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2

H. P. POWER TRANSMISSION CORPORATION LIMITED

BID EVALUATION REPORT

(TECHNICAL PROPOSALS)

FOR

CONSTRUCTION OF 33/220 kV , 100MVA GIS *SUB* STATION AT CHAROR OF HIMACHAL PRADESH (INDIA)

BID No.: 17-SS/KFW/HPPTCL/33/220 KV Additional Charor Substation

KfW Loan under German Financial Cooperation with India

Green Energy Corridors

JANUARY, 2019

General Manager (C&D)
HPPTCL, Shimla-5

29.55

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General Manager (C&D)
HPPTCL, Shimla-5

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General Manager (C&D)
HPPTCL, Shimla-5

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1. INTRODUCTION

1.1 General

H. P. Power Transmission Corporation Limited (HPPTCL) has received a Loan from KfW bank under Green Energy Corridors Scheme of Govt. of India for development of Intra State Transmission System in Himachal Pradesh, India. It is intended that part of the proceeds of this Loan be used for eligible payments for the contract named "Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh (India)" on Turnkey Basis, for which these Bids were invited. Single - Stage: Two – Envelopes Bidding Procedure (Electronic Bidding Mode) has been followed for this procurement.

1.2 Publication of Bids

The Invitation for Bids was floated on the 10/10/2018 for publication in two number English Language Newspapers viz 'Times of India' & 'The Tribune' and one edition of Hindi language newspaper 'Amar Ujala' and same were published on 13/10/2018 (*Copies attached as* ***Annexure - NP***) after obtaining the KfW approval of Draft Bidding Document via e-mail dated 28th September 2018 (**Annexure - 1**). The Invitation for Bids was also posted on HPPTCL's Website and GTAI's website.

1.3 Pre-Bid Meeting

The Pre -Bid Meeting was fixed on **19/11/2018** in HPPTCL's Office at Shimla as stipulated in the Bidding Documents. No bidders have attended the pre-bid meeting however queries were received from the prospective bidders who purchased the bid document. The written replies for queries submitted, uploaded on tender-wizard (e-Tendering platform) for all the prospective Bidders who purchased the bid document vide Clarification No. 1 to 3.

1.4 Submission of Bids

The Date of Electronic Submission and Opening of Bids in the first instance was fixed for 9th & 10th December, 2018 respectively, which was further extended on the request of the prospective Bidders to 17th & 18th December 2018 respectively, The extension in Due Date for Submission and Opening was done with the approval of the KfW. The Time for the receipt of Bids by the HPPTCL was closed at 17:00 Hrs. (Local time) on 17th December, 2018 as scheduled. Out of two (2) Firms, who had purchased the Bidding Documents, only one (1) Bidder as mentioned in subsequent paras submitted their Bid.

1.5 Bid Opening

Bids were opened at 15:00 Hrs on 18/12/2018 on tender wizard web portal, after Online Bid opening, hard copies opened in the office of the General Manager (C & D), HPPTCL, Himfed Bhawan, Panjari, Shimla - 171005 by the Bid Opening Committee constituted by HPPTCL in the presence of Representatives of Bidders. The Bidder's names were announced and recorded. The Bid Opening Committee opened the envelopes of the Technical Proposals and examined the Documents. Bidder's Name, Alternative Offer if any, and the presence or absence of the requisite Bid Security and its amount were announced and recorded. All the necessary Papers, Forms and Schedules were signed by the Members of the Committee. The Record of Bid Opening was prepared soon after the Bids were opened and a copy of the Record of Bid Opening was furnished to the KfW vide email dated 18.12.2018 (Annexure-3).

Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Vivek Dhiman
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

29.58

1.6 Basic Data

The Key Information of the Bidding Process was collected so that it would be readily available. The Basic Information pertaining to the Bidding was summarised and is presented in **Appendix - 1.**

1.7 Bid Evaluation Committee

A Tender Evaluation Committee comprising following five Senior officers of HPPTCL was constituted vide Office Order No.: HPPTCL /DIR(P&C):- dated 31.12.2018 and information included in **Annexure - 2.**

1. General Manager (C&D)	Chairman
2. DGM & Head, Trans. Designs	Member
3. DGM (Finance)	Member
4. DGM (Projects)	Member
5. DGM (Contracts)	Member

The Committee's decisions have been made on the basis of unanimous views.

2. EXAMINATION FOR COMPLETENESS OF BIDS

The Names of the Bidders and their Nationalities are shown in the following Table:

2.1 List of Bidders

Sr. No	Name	Nationality
1.	M/s Kanohar Electricals Limited in Collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan)	Indian

2.2 Bid Documents (Technical Proposal)

The Technical proposals submitted were examined to verify that the Bidders have submitted all the Documents and Information required by the Bidding Documents. The following were verified:

(i) Form of Bid for Technical Proposal and Bill of Quantities (without Price);

(ii) Joint Venture Agreement or Letter of Intent to Enter into an Agreement, if required;

(iii) Presence of Power of Attorney and Propriety of Signature;

(iv) Documents establishing the Eligibility of Bidders and Goods;

(v) Documents required to assess the Qualification of Bidders, its Manufacturers and Subcontractors;

(vi) Schedules of particular information and documents required to establish that the Goods conform to the Bidding Documents.

(vii) Declaration of Undertaking as per Performa given in Section-4 Bidding Forms

The results of checking / Examination for completeness of Bid Documents are presented in **Appendix-2.**

2.3 Propriety of Signature and Power of Attorney

All Documents were signed in accordance with the Instructions to Bidders and corrections were initialled by the authorized person. The Power of Attorney for the signatory of the Bids was acceptable. The information is included in **Appendix-2**

Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Vivek Dhiman
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

29.59

3. DETERMINATION OF SUBSTANTIVE RESPONSIVENESS OF BIDS

3.1 Eligibility of Bidders and Goods

The Bidders submitted certifications and necessary documentation indicated that they are nationals of an Eligible Member Country of KfW. As per requirement specified in Clause Nos. 4 and 5 of the "Instruction to Bidders of the Bidding Documents. (**Appendix - 3** of Substantive Responsiveness of Bids to Commercial Terms).

3.2 Bidders' Qualifications

The Bidding Documents required, in Clauses No.: 14 to 17 of the 'Instructions to Bidders' that each Bidder shall submit with the Bid, evidence of its Technical Capability, Financial Capacity and Previous Experience in similar Works by completing the Forms and Schedules provided in the Bidding Document. The bidder has submitted the requisite Forms and Schedules satisfactorily. The detailed review of the information to determine whether the Bidder qualifies to perform the requirements of the Contract was carried out in accordance with the provisions of the Bidding Documents. The results of the review are summarized in **Appendix-4** Evaluation of Bidders' Qualifications. The findings of the review are briefly presented below.

a) **M/s Kanohar Electrical Ltd. in collaboration with M/S Chung Hsin Electric & machinery Mfg. Corp., Taiwan:- (Bidder 1)**

The Bidder has submitted the Bid in collaboration with M/S Chung Hsin Electric & machinery Mfg. Corp., Taiwan. The Firm is of Indian nationality. The Firm is a manufacturer of GIS. The collaborator M/s Chung Hsin Electric & Machinery Mfg. Corp., has executed *345 kV GIS Sub Station at ChangLin, during September'2012 comprising 345 kV bays= 13 Nos.,* on turnkey basis against the requirement of one (1) number 220 KV or Above voltage level GIS Sub Stations/Switching Station having at least 3 numbers, 220 kV or higher Voltage GIS Circuit Breaker Bays during at least last five (5) years and the same should have been commissioned and in successful operation at least one (1) year as on the Date of Bid Opening. The values of one contract executed by M/s Chung Hsin Electric & Machinery Mfg. Corp is MINR 2389.89 (US$ 33294629.58 whereas 1 US$=INR 71.78 on 18.11.2018) against the Specific requirement of MINR 247.92. The Firm (M/s Kanohar Electricals Limited) is financially sound and meets all the financial requirements as per tender Document. The Firm on clarification submitted the required documents/ clarifications. The Firm (M/s Kanohar Electrical Ltd. in collaboration with M/S Chung Hsin Electric & machinery Mfg. Corp., Taiwan) meets the Technical Experience as stipulated in Clause No. 1.1.1 & 1.1.2 of Section-3 "Evaluation and Qualification Criteria" of Tender Specifications. The past performance of the Firm is satisfactory as per performance report submitted by the Firm.

3.3 Compliance with Commercial Terms and Conditions

3.3.1 Bid Validity and Bid Security

The Bid Validity Period of at least 240 days from the Date of Bid Opening was specified in the Bidding Documents. The bidder offered the Bid Validity Period in line with Tender Document. As stipulated in the Bidding Documents, the Bidder submitted the Bid Security as required.

3.3.2 Terms of Payment and Reservations to Commercial Conditions

The Bidder accepted the Terms and Conditions of the Bidding Documents with respect to Payments and also accepted the Price Adjustment Provisions and specified mechanism for the determination of Price Adjustments. None of the proposals contained serious reservations to the major commercial conditions of the Bidding Documents. Bidder accepted the provisions for

Er. Sahil Verma
Dy. Manager (Contracts),
HPPTCL, Shimla-5

Er. Vivek Dhiman
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

29.10

Liquidated Damages, Functional Guarantees and the corresponding Adjustments, Performance Security, Insurance and other stipulations for the Transportation of Goods, Warranty Conditions and after Sales Service.

3.3.3 Time for Completion / Contract Execution Schedule

The Contract Execution Schedules and Sequence of Delivery of Major Units of Plant were evaluated in detail and compared with the requirements of the Bidding Documents. The Contract Execution Schedules submitted by the Bidder is generally in order. Bidder Proposed Contract Execution Schedules meet the completion requirement of **18 months (540 days)** for the Project. The detail is summarised in **Appendix-5** (Clause wise evaluation of bidder).

3.3.4 Clause wise evaluation of Bidder Qualifications:-

The Clause wise evaluation of bidder's qualifications and compliance by bidder has been tabulated in **Appendix-5.** The bids submitted by M/s Kanohar Electrical Ltd. in collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp., Taiwan was found Techno-commercially responsive to the requirements of the Bidding Documents.

4. DETAILED EVALUATION FOR TECHNICAL REQUIREMENTS

4.1 Non Responsive Bids and Responsive Bids

As discussed in Section 3, in particular Sub - Section 3.2, Bidders' Qualifications that the Bid submitted by ***M/s Kanohar Electrical Ltd. in collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp., Taiwan*** determined as Substantially Responsive to the requirements of the Bidding Documents.

4.2 Evaluation of Technical Requirements of Responsive Bids

Technology

The Power Transformer and GIS equipment's are considered as important items for the project and special attention has been given in the evaluation with respect to design, quality, reliability and safety. The evaluation showed that M/s Kanohar Electrical Ltd. is also manufacturer of GIS equipments and Transformers.

Compliance with Technical Specifications

The Scope of Work, Technical Information and Technical Data submitted by the Bidder was scrutinized in detail and a comparison was carried out with the Technical Requirements of the Bidding Documents. The ***M/s Kanohar Electrical Ltd.*** has submitted substantially complete information and generally satisfies the Technical Requirements of the Bidding Documents.

The ***M/s Kanohar Electrical Ltd.*** satisfactorily complied with the scope of the technical specifications and generally meets the requirements of the specifications. The summary of Substantive Responsiveness to the Major Technical Requirements of the bidding documents is prepared and tabulated as **Appendix- 7**.

4.3 Clarifications and Discussions

Because of nature of the works and size of the plant involved, clarifications and additional information was required to assess the Technical acceptability and standard goods and services offered and also to assess the completeness of the scope of works. The issues requiring clarifications/confirmations after Detailed Evaluation of the Commercial and Technical Documents were sent to the Bidder with the request to submit necessary clarifications, additional information, to confirm the Technical Requirements of the Bidding Documents. The Bidder was given sufficient time to submit these clarifications. The bidder complied with the request. The clarifications /confirmations furnished by the

G. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Vivek Dhiman
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

29.61

Bidder resulted in their Technical Proposals conforming to Technical Standards and meeting the Technical Requirements of the Bidding Documents by the Tender Evaluation Committee.
The TEC's decisions have been made on the unanimous views of its members. The minutes of Tender Evaluation Committee are as per **Annexure-4.**

5. CONCLUSIONS AND RECOMMENDATIONS

On the basis of the analysis of the Technical Proposals presented in this Report, it is concluded that:

(a) The Original Technical Proposal supplemented by clarifications, additional information of the following firm considered **Responsive** to the requirements of the Bidding Documents.

i. ***M/s Kanohar Electrical Ltd. in collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp., Taiwan***

(b) It is recommended that KfW approve opening of the Price bid of following Firms:

i. *M/s Kanohar Electrical Ltd. in collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp., Taiwan*

DGM (Contracts)
HPPTCL, Shimla-05

Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Vivek Dhiman
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

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NSE 237.85 10,472.50 | GOLD ₹31,788 Mumbai | SILVER ₹38,911 Mumbai

The Tribune CHANDIGARH | SATURDAY | 13 OCTOBER 2018

HP POWER TRANSMISSION CORPORATION LTD.

(A State Govt. Undertaking)

"Press Tender Notice"

(E-Tendering Mode Only)

Online tenders in TWO PARTS are hereby invited for the following works:-

Tender Spec No.	Description of Material	Qty.
17-SS/ KFW/ HPPTCL/ 33/220 KV AddL. Charor S/Stn	DESIGN, ENGINEERING, MANUFACTURE, FABRICATION, TESTING AT MANUFACTURERS WORKS, TRANSPORTATION TO SITE, INSURANCE, STORAGE, ERECTION, TESTING AND COMMISSIONING OF ADDITIONAL 33/220 kV, 100 MVA, TRANSFORMER WITH ASSOCIATED GIS IN THE YARD OF 132/220 KV CHAROR SUB STATION DISTT- KULLU OF HIMACHAL PRADESH (INDIA)	1 Job

The dates of sale, receipt and opening of tenders are mentioned in the detailed Notice Inviting Tenders which can be downloaded free of cost from the website https://www.tenderwizard.com/HPPTCL. For other details on e-tendering please contact on Mobile Nos. +918261922200, +918261033300 and +919625033300.

Sd/- (Er. K. N. Sharma),
DGM (Contracts)
E-mail: dgmcontracts@hpptcl.in

OPR/HP/0465

Office of D

The District Administra
enthusiastic individuals
management project-Pa

Sr. No.	Position
1.	Project Leade
2.	Project Super
3.	Project Interns (Females only

The detailed application
be downloaded from dist
shall apply by subi
pakeezahpads@gmail.
which shall reach the offi
Any communication w
(https://patiala.nic.in)

NATIO

DEPT. OF
5th Floor

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OFFICE OF THE DIRECTOR GENERAL OF POLICE HIMACHAL PRADESH, SHIMLA – 171002

TELE No. 0177-26221714, FAX-0177-2626945

E-mail – police-statecr-hp@nic.in.

File No. P&L (3) RC-U&E-I/2018-38182 Dated.10/10 /2018

E-TENDER NOTICE

The Police Headquarters, Himachal Pradesh, Shimla-02 invites E- Tenders /online bid for finalization of Annual Rate Contract for the supply of Uniform & Equipment Items for H.P. Police personnel.

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General Manager (C&D)
HPPTCL, Shimla-5

	NSE	GOLD	SILVER
13	237.85 10,472.50	₹31,788 Mumbai	₹38,9 Mumbai

The Tribune JALANDHAR | SATURDAY | 13 OCTOBER 2(

HP POWER TRANSMISSION CORPORATION LTD.

(A State Govt. Undertaking)

"Press Tender Notice"

(E-Tendering Mode Only)

Online tenders in TWO PARTS are hereby invited for the following works:-

Tender Spec No.	Description of Material	Qty.
17-SS/ KFW/ HPPTCL/- 33/220 KV AddL. Charor S/Stn	DESIGN, ENGINEERING, MANUFACTURE, FABRICATION, TESTING AT MANUFACTURERS WORKS, TRANSPORTATION TO SITE, INSURANCE, STORAGE, ERECTION, TESTING AND COMMISSIONING OF ADDITIONAL 33/220 kV, 100 MVA, TRANSFORMER WITH ASSOCIATED GIS IN THE YARD OF 132/220 KV CHAROR SUB STATION DISTT- KULLU OF HIMACHAL PRADESH (INDIA)	1 Job

The dates of sale, receipt and opening of tenders are mentioned in the detailed Notice Inviting Tenders which can be downloaded free of cost from the website **https://www.tenderwizard.com/HPPTCL**. For other details on e-tendering please contact on Mobile Nos. +918261922200, +918261033300 and +919625033300.

Sd/- (Er. K. N. Sharma),
DGM (Contracts)
E-mail: dgmcontracts@hpptcl.in

DPR/HP/0465

OFFICE OF THE DIRECTOR GENERAL OF POLICE HIMACHAL PRADESH, SHIMLA – 171002

TELE No. 0177-26221714, FAX-0177-2626945

E-mail – police-statecr-hp@nic.in.

File No. P&L (3) RC-U&E-II/2018-38182 Dated.10/10 /2018

E-TENDER NOTICE

The Police Headquarters, Himachal Pradesh, Shimla-02 invites

he admit card

Office of Dep

The District Administratio
enthusiastic individuals for t
management project-Pakee

Sr. No.	Position
1.	Project Leader
2.	Project Supervisor
3.	Project Interns (Females only)

The detailed application form
be downloaded from district w
shall apply by submittir
pakeezahpads@gmail.com
which shall reach the office of
Any communication with t
(https://patiala.nic.in) or th

NATIONAL

DEPT. OF HE
5th Floor, Pra
Telep

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With reference to a
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Officer under Nation
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in-Interview dated 02

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General Manager (C&D)
HPPTCL, Shimla-5

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NSE 237.85 10,472.50 | GOLD ₹31,788 Mumbai | SILVER ₹38,911 Mumbai

The Tribune BATHINDA | SATURDAY | 13 OCTOBER 2018

HP POWER TRANSMISSION CORPORATION LTD.

(A State Govt. Undertaking)

Press Tender Notice

(E-Tendering Mode Only)

Online tenders in TWO PARTS are hereby invited for the following works:-

Tender Spec No.	Description of Material	Qty.
17-SS/ KFW/ HPPTCL/ 33/220 KV Addl. Charor S/Stn	DESIGN, ENGINEERING, MANUFACTURE, FABRICATION, TESTING AT MANUFACTURERS WORKS, TRANSPORTATION TO SITE, INSURANCE, STORAGE, ERECTION, TESTING AND COMMISSIONING OF ADDITIONAL 33/220 kV, 100 MVA, TRANSFORMER WITH ASSOCIATED GIS IN THE YARD OF 132/220 KV CHAROR SUB STATION DISTT- KULLU OF HIMACHAL PRADESH (INDIA)	1 Job

The dates of sale, receipt and opening of tenders are mentioned in the detailed Notice Inviting Tenders which can be downloaded free of cost from the website https://www.tenderwizard.com/HPPTCL. For other details on e-tendering please contact on Mobile Nos. +918261922200, +918261033300 and +919625033300.

Sd/- (Er. K. N. Sharma),
DGM (Contracts)
E-mail: dgmcontracts@hpptci.in

DPR/HP/0465

OFFICE OF THE DIRECTOR GENERAL OF POLICE HIMACHAL PRADESH, SHIMLA – 171002

TELE No. 0177-26221714, FAX-0177-2626945

E-mail – police-statecr-hp@nic.in.

File No. P&L (3) RC-U&E-II/2018-38182 Dated.10/10 /2018

E-TENDER NOTICE

The Police Headquarters, Himachal Pradesh, Shimla-02 invites

Office of Deputy

The District Administration Pa
enthusiastic individuals for the f
management project-Pakeezah:

Sr. No.	Position
1.	Project Leader
2.	Project Supervisor
3.	Project Interns (Females only)

The detailed application form an
be downloaded from district webs
shall apply by submitting
pakeezahpads@gmail.com or b
which shall reach the office of ADC
Any communication with the
(https://patiala.nic.in) or throu

NATIONAL H

DEPT. OF HEAL
5th Floor, Praya
Telepho

Pub

With reference to ad
published in the leadin
on the Department's W
for Walk-in-Interview fo
Officer under Nation
notified for the inform
in-Interview dated 02.
administrative reason

General Manager (C&D)
HPPTCL, Shimla-5

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THE TIMES OF INDIA, NEW DELHI
SATURDAY, OCTOBER 13, 2018

TIMES

H P Power Transmission Corporation Ltd.
(A State Govt. Undertaking)
"Press Tender Notice"
(E-Tendering Mode Only)

Online tenders in TWO PARTS are hereby invited for the following works:-
Tender Spec No. :- 17-SS/KFW / HPPTCL / 33/220 KV Addl. Charor S/Stn Description of Material :- DESIGN, ENGINEERING, MANUFACTURE, FABRICATION, TESTING AT MANUFACTURERS WORKS, TRANSPORTATION TO SITE, INSURANCE, STORAGE, ERECTION, TESTING, AND COMMISSIONING OF ADDITIONAL 33/220 kV, 100 MVA TRANSFORMER WITH ASSOCIATED GIS IN THE YARD OF 132/220 KV CHAROR SUB STATION, DISTT- KULLU OF HIMACHAL PRADESH (INDIA) Qty. :-1 Job
The dates of sale, receipt and opening of Tenders are mentioned in the detailed Notice Inviting Tenders which can be downloaded free of cost from the website https://www.tenderwizard.com/HPPTCL. For other details on e-tendering please contact on Mobile Nos +918261922200, +918261033300 and +919625033300.

— Sd —
(Er. K.N. Sharma)
DGM (Contracts)
E-mail: dgmcontracts@hpptcl.in

HIM SUCHNA AVAM JAN SAMPARK

Advt.No.D485/13/10/2018

TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED
e-PROCUREMENT TENDER NOTICE

The Transmission Corporation of A.P. Limited invites bids online for the following works: Tender Notice No. 01 / Civil / 2018-19 / CE/ Transmission / APTransco / D.No.14/18, Dt: 09-10-2018.

Specification No.: 1 / Civil / 2018-19 of CE / Transmission / VS / Vijayawada. **Name of the Work:** Construction of office building for O/o Superintending Engineer/OMC/Ongole, Division and Sub division offices pertaining to OMC Circle, Ongole in the premises of 132KVSS, Ongole in Prakasam District. **Date & time of Tender availability of Tenders on e-procurement:** From 10/10/2018 after 5.00 PM

Note: i) Name & address of office inviting bids-Chief Engineer/ Transmission, APTRANSCO, Vidyut Soudha, Gunadala, Vijayawada-520004. ii) The contractor/ Firms are requested to upload the information in pdf format only. iii) Further details can be seen in website (s): www.tender.apeprocurement.gov.in. **Phone / Fax No.:** 0866-2429230

R.O. No: 48/18 — Sd/- Chief Engineer / Transmission

उत्तराखण्ड पावर कारपोरेशन लि0
26, सिविल लाईन्स विद्युत वितरण मण्डल, रूड़की Mob.No. 9412073712, 9411111384

ई–निविदा सूचना

उत्तराखण्ड पावर कारपोरेशन लि0, विद्युत वितरण मण्डल, रूड़की द्वारा निम्नलिखित कार्य हेतु ई–निविदा SE/EDC-RKE/2018-19/36 आमंत्रित की जाती है। निविदा क्रय करने हेतु आनलाईन आवेदन करने की अन्तिम तिथि एवं समय 29.10.18 को 14:00 बजे तक एवं निविदा प्रपत्र आनलाईन एवं आफलाईन जमा करने की अन्तिम तिथि एवं समय 30.10.18 को 12:00 बजे तक है, जो उसी दिन 13:00 बजे उपस्थित निविदाताओं के सम्मुख उपेक्षणकर्ता द्वारा online & offline के रूप से खोली जाएगी।

कार्य:– Package A - Work of Survey of NB/SB Connections & Submission of survey reports in prescribed performas under EDD Urban Roorkee.
Package B - Work of Survey of NB/SB Connections & Submission of survey reports in prescribed performas under EDD Ramnagar Roorkee.
Package C - Work of Survey of NB/SB Connections & Submission of survey reports in prescribed performas under EDD Rural Roorkee.
Package D - Work of Survey of NB/SB Connections &

CENTRAL ORGANISATION FOR RAILWAY ELECTRIFICATION
1, NAWAB YUSUF ROAD, CIVIL LINES, ALLAHABAD-211001, Fax: 0532-2408825

Addendum & Corrigendum Slip No. 5 to RFQ Notice No. ELCORE/ 2018/EPC-9 dated: 28.03.2018 along with A&C slip No. 1, 2, 3 & 4
Name of the work: Request for Qualification (RFQ) of Bidders for Engineering, Procurement & Construction under two stage process of bidding for Railway Electrification of various section in Southern Western Railway.

S.Item No./Para No./Line No./ Col. No.	Description	As existing	As corrected
1 5.0	Date of sale of RFQ documents	From 02.04.2018 to 11.10.2018	From 02.04.2018 to 23.10.2018

General Manager (C&D)
HPPTCL, Shimla-5

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14

- पद का विवरण : इंस्पोरेस मेडिकल ऑफिसर ग्रेड -II (एलोपैथिक)
- शैक्षणिक योग्यता : इंडियन मेडिकल काउंसिल एक्ट 1956 द्वारा निर्धारित योग्यताएं तथा मेडिकल काउंसिल ऑफ इंडिया में पंजीकरण और अन्य निर्धारित योग्यताएं।
- आयु सीमा : अधिकतम 30 वर्ष निर्धारित।
- आवेदन प्रक्रिया : उम्मीदवार वेबसाइट पर जाकर ऑनलाइन आवेदन प्रक्रिया पूर्ण करें। आगामी चयन प्रक्रिया के लिए आवेदन पत्र के प्रिंटआउट को सुरक्षित रख लें।

771 कुल पद

Idea of the day

शिमला। प्रदेश मास्टर बैडमिंटन चैंपियनशिप छह से आठ दिसंबर तक इंदिरा गांधी खेल परिसर में खेली जाएगी। शिमला जिला बैडमिंटन

1. Sarita Devi d/o Smt. Sinwo Devi W/o Late Amin Chand
2. Kavita Devi D/o Smt. Sinwo Devi W/o Late Amin Chand,
3. Ardudh S/o Smt. Sinwo Devi W/o Late Amin Chand.

amarujala.com

धर्मशाला | शनिवार, 13 अक्तूबर 2018

7

www.esicnic.in

NBCC: एग्जीक्यूटिव के पद रिक्त

- कहां: नेशनल बिल्डिंग कंस्ट्रक्शन कार्पोरेशन लिमिटेड
- पद की संख्या: 01
- पद का विवरण : सीनियर एग्जीक्यूटिव (एच) (संविदा पर)
- शैक्षणिक योग्यता :भारत सरकार द्वारा मान्यताप्राप्त विश्वविद्यालय/संस्थान से एच स्नातक और आर काउंसिल में पंजीकरण तथा अन्य निर्धारित योग्यताएं।
- आयु सीमा : अधिकतम आयु 33 वर्ष निर्धारित की गई है।
- आवेदन प्रक्रिया : उम्मीदवार संबंधित वेबसाइट पर जाकर आवेदन पत्र डाउनलोड करके भर लें और भरे हुए आवेदन पत्र और मांगनीय स्व-प्रमाणित दस्तावेजों को संलग्न करके साक्षात्कार के लिए निर्धारित पते "एनबीसीसी (आई) लिमिटेड, कॉर्पोरेट कार्यालय, एनबीसीसी भवन, लोधी रोड, नई दिल्ली -110003" पर नियत समय प्रातः 10:00 बजे पहुंचे।
- साक्षात्कार की तिथि: 24 अक्टूबर, 2018
- वेबसाइट: www.nbccindia.com

शाह का सवाल

मैं बीकॉम प्रथम वर्ष का छात्र हूं। मैं बीकॉम करने के बाद करियर में आगे क्या कर सकता हूं?
-मुकेश शेखावत

जवाब : यदि आपकी कॉमर्स और कंप्यूटर विषय में रुचि है, तो आप आगे कंप्यूटर से संबंधित कुछ कोर्स जैसे टैली, एमएस ऑफिस, पीजीडीसीए, बी-कॉमर्स इन कंप्यूटर, डिप्लोमा इन कंप्यूटर टेक्नोलॉजी, आदि कर सकते हैं। इसके अलावा आप स्नातक की पढ़ाई करने के साथ-साथ सरकारी नौकरी की तैयारी करने के बारे में भी सोच सकते हैं। सरकारी नौकरियों में आप रेलवे, बैंकिंग, सिविल सेवा और एसएससी के आधार पर होने वाली परीक्षाओं की तैयारी कर सकते हैं। स्नातक के बाद आप एमकॉम कर सकते हैं अथवा आप कैट परीक्षा में शामिल हो सकते हैं। आप एमबीए करके भी अपने करियर को नई उड़ान दे सकते हैं।

अपने सुझाव और सवाल हमें इस मेल पर भेजें- www.safalta.com/ask

jobalert@amarujala.com

विस्तृत पढ़ें www.safalta.com और पाएं सरकारी नौकरी से जुड़ी नवीनतम जानकारियां

Senior Civil Judge
Palampur, Distt. Kangra H.P.

Advertisement

Directorate of Women and Child Development (HPSCPS), Cedar Home, Brentwood Estate, Shimla-1

The applications are invited from the eligible retirees for recruitment on purely contract basis with society for the following post:-

Sr.No.	Name of the Posts	No. of Posts
1.	District Child Protection Officer in Distt. Lahaul & Spiti and Solan under Integrated Child Protection Scheme.	02
	Total	02

The applications should reach this office up to 25-10-2018 at 5:00 PM in the office of undersigned. **For further detail regarding eligibility, other terms and conditions for appointment and application format can be seen /downloaded from departmental website i.e. www.wcd-hp@nic.in.**

By order
Director (WCD)-cum-Member Secretary
HP State Child Protection Society

Ro-0467/18-19

H P Power Transmission Corporation Ltd.

(A State Govt. Undertaking)

Press Tender Notice

(E-Tendering Mode Only)

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Tender Spec No.	Description of Material	Qty.
17-SS/KFW/ HPPTCL/ 33/220 KV Addl. Charor S/Stn	DESIGN, ENGINEERING, MANUFACTURE, FABRICATION, TESTING AT MANUFACTURERS WORKS, TRANSPORTATION TO SITE, INSURANCE, STORAGE, ERECTION, TESTING, AND COMMISSIONING OF ADDITIONAL 33/220 kV, 100 MVA TRANSFORMER WITH ASSOCIATED GIS IN THE YARD OF 132/220 KV CHAROR SUB STATION, DISTT-KULLU OF HIMACHAL PRADESH (INDIA)	1 Job

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Sd/-
(Er. K.N. Sharma)
DGM (Contract)
E-mail: dgmcontracts@hpptcl.

Ro-0465/18-19

01/13

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General Manager (C&D)
HPPTCL, Shimla-5

29.67

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पढ़ें, एक खबर के कई पहलू, 'सोशल स्टोरी' में amarujala.com पर

सम्मेलन 14 को

का आयोजन 14 अक्तूबर को हिसार में किया जाएगा। इसमें रहेंगे। इस सम्मेलन के जरिए हरियाणा सरकार नंबरदारों को साधने की अध्यक्षता करेंगे। ब्यूरो

Advertisement

Directorate of Women and Child Development (HPSCPS), Cedar Home, Brentwood Estate, Shimla-1

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HP State Child Protection Society

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DGM (Contracts)
E-mail: dgmcontracts@hpptcl.in

Ro-0465/18-19

प्रधानमंत्री कौशल विकास योजना के अंतर्गत प्रशिक्षण लेने हेतु आवेदन आमन्त्रित

एकीकृत मधुमक्खी पालन विकास केन्द्र, रामनगर, कुरुक्षेत्र में "प्रधानमंत्री कौशल विकास योजना" के तहत वैज्ञानिक विधि द्वारा मधुमक्खी पालन पर प्रशिक्षण प्रदान किया जाएगा। उक्त केन्द्र द्वारा हरियाणा जिलासे अभ्यार्थियों/प्रार्थियों से जो कम से कम आठवीं पास हो, आवेदन

दिल्ली जल बोर्ड
एनसीटी दिल्ली सरकार
अधिशासी अभियंता (उत्तर पश्चिम)-I
कार्यालय, उद्योग नगर इंडस्ट्रियल एरिया
गुरुद्वारा चौक नई दिल्ली-41
ई-टेंडर (एनआईटी) I/(2018-19)
प्रेस विज्ञप्ति सूचना

टेंडर में लगने वाली राशि	ई-प्रति (रु.) प्रोसेसिंग शुल्क	टेंडर प्राप्त करने/खरीदने के बारे की तिथि आदि का	ई-प्रति प्राप्त/खरीदने हेतु टेंडर प्राप्ति की अंतिम दिनांक/समय
35,808/-	98,600/- 500/-	11/10/2018 2018_DJB_160733_1	25-10-2018 को प्रा 3:00 बजे

...पर देखा जा सकता है।

अधिशासी अभियंता (एनआईटी)I

punjab national bank

सोलन (हिप्र.), (01795-245173/245673/245073)

सूचना (सांकेतिक)

प्रतिभूतिकरण व पुनर्निर्माण और प्रवर्तन के तहत और प्रतिभूति ब्याज (प्रवर्तन) नियमों 2002 के साथ पैनाशल बैंक के अधिकृत अधिकारी होने के नाते अधोहस्ताक्षरी ने ऋणकर्ता/गारंटर को नियम सूचना की प्राप्ति की तिथि से 60 दिन के भीतर राशि में अनुसूचित राशि को वापिस

...एतद्द्वारा ऋणकर्ता/गारंटर और सर्व साधारण को सूचना दी जाती है कि अधोहस्ताक्षरी ने ...13(4) के तहत उसे प्रदत्त शक्तियों का प्रयोग करते हुए निम्न वर्णनेतर संपत्ति पर कब्जे के प्रति

...किसी भी प्रकार का लेन-देन न करने के लिए सावधान किया जाता है और इन संपत्तियों के साथ ...पैनाशल बैंक के प्रभार के अधीन होगा।

सम्पत्ति का विवरण	धारा सूचना तिथि	निर्धारित सांकेतिक कब्जा सूचना की तिथि	धारा सूचना की तिथि अनुसार बकाया राशि
...2009 हेतु जमाबंदी में	16.07.2018	12.10.2018	16/7/2018 तक 4875734/-रु. (अड़तालिस लाख पिचहत्तर हजार सात सौ चौंतीस रु.) + सम्पूर्ण अदायगी होने तक 1/1/2018 से ब्याज एवं अन्य खर्चे, वसूली रूम करके, यदि कोई है।
...(84), पीओ पांडित्य तहसील ...2012-2013 हेतु जमाबंदी में ...खत खेवट/खेवाट में 23 ...इस भूमि मात्र 11/9 ...(84), पीओ पांडित्य तहसील ...2012-2013 हेतु जमाबंदी में शिवरामु-सुमार पांव समेड़, तहसील ...खत खेवट/खेवाट में 23 किला/23 किला, खसरा/कुमार भूमि मात्र ...इस 11/9 का हिस्सा, भाटक खसरा सं. 614 का रहवा।	16.07.2018	11.10.2018	
...ी पत्नी अभयचोत सिंह के नाम	12.07.2018	12.10.2018	12/07/2018 तक 1853446/-रु.

General Manager (C&D)
HPPTCL, Shimla-5

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बीएसई 159.06 35,513.14 एनएसई 57 10,685.60

अमर उजाला

सोना /10 ग्राम ₹31,850 चांदी ₹37,

चंडीगढ़ | बुधवार, 28 नवंबर 2018

दो साल में ही चलन से ब

जल्द खराब होने से नए नोटों को नॉन इश्यूबल श्रेणी में ड

शिशिर चौरसिया

नई दिल्ली। नोटबंदी के बाद बाजार में आए नए नोट दो साल बाद ही चलन से बाहर होने लगे हैं। आलम यह है कि 2,000 और 500 रुपये के नए नोटों के साथ इसी साल जनवरी में जारी भारतीय रिजर्व बैंक (आरबीआई) के गवर्नर ऊर्जित पटेल के हस्ताक्षर वाले चॉकलेटी ब्राउन रंग के 10 रुपये के नोट पर भी यह खतरा मंडराने लगा है।

इसी के मद्देनजर वाणिज्यिक बैंकों ने इन नोटों को जारी नहीं करने योग्य (नॉन इश्यूबल) की श्रेणी में डालकर चलन से बाहर करना शुरू कर दिया है। एक अग्रणी सरकारी बैंक के वरिष्ठ अधिकारी ने अमर उजाला को बताया कि आरबीआई गवर्नर के हस्ताक्षर से जारी हुए

खराब नोटों को एटीएम में डालने पर इनकी गणना में गड़बड़ी कर देता है एटीएम सेंसर



10 महीने में ही 10 रुपये के नोट पर चलन से बाहर होने का खतरा

नए नोटों के कागज की गुणवत्ता पहले के नोटों के मुकाबले खराब है। इसलिए नए नोट जल्द खराब हो रहे हैं। एक बार नोट खराब हो जाने पर इन्हें एटीएम में नहीं डाला जा सकता है क्योंकि एटीएम का सेंसर खराब नोटों की गणना में गड़बड़ी कर देता है। अधिकारी का कहना है कि आमतौर पर नए नोटों को दो बार से ज्यादा एटीएम में नहीं डाला जा रहा है।

न्यूज

शेयर बाजार में लगातार दूसरे दिन तेजी

मूडीज ने य की रेटिंग

नई दिल्ली। मूडीज इ

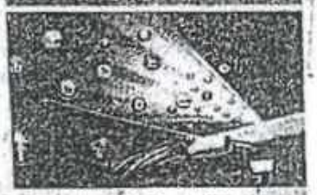
-फ्लाइट कनेक्टिविटी व

ानून मंत्रालय की मंजूरी

विभाग दो सप्ताह में जारी करेगा अधिसूचना, तैयारी में एयर

स्पाइसजेट ने इन-फ्लाइट कनेक्टिव सेवा देने की करली है तैयारी

एयर इंडिया समेत अन्य एयरलाइ कंपनियां जुटी उड़ानपूर्व तैयारी में



शुरू में मिलेगी नेट सर्फिंग की सुवि

इन-फ्लाइट कनेक्टिविटी सेवा की शुरुआत में य सिर्फ इंटरनेट सर्फिंग का सकेंगे। बातचीत की मुहैया कराने में अभी कुछ वक्त लगेगा। दूरसंच ने भी देश की व्यवस्था का उपयोग सुरक्षा को ध रखते हुए करने को कहा था। समुद्र और जमीन निर्धारित ऊंचाई 3,000 मीटर से ऊपर विमान प भी सहमति बन गई है। करीब 30 विदेशी विमान

हवाई जहाज में यात्रा करते समय न पर बात करना और डेटा प्रयोग इंतजार अब खत्म होगा। कानून इन-फ्लाइट कनेक्टिविटी पर दूरसंचार दश-निर्देशों को मंजूरी प्रदान कर दी है। निर्देशों को दो सप्ताह के भीतर कर देगा। अधिसूचना जारी होने के बाद स उपभोक्ताओं को देश के हवाई दायरे दे सकेंगी।

विभाग द्वारा हवाई यात्रा में दूरसंचार से जुड़े दिशा-निर्देश करीब एक माह मंत्रालय में विभिन्न कारणों से अटके वश्यक संशोधन के बाद मंत्रालय की देशों के मसौदे को मंजूरी प्रदान की गई के मुताबिक स्पाइसजेट ने इन-फ्लाइट ी सेवा देने की तैयारी कर ली है। के 737 मैक्स विमान में यात्रा करने उड़ान के दौरान मोबाइल पर बातचीत का प्रयोग कर सकेंगे। एयर इंडिया समेत

Executive Engineer, (R&B) M.C. Shimla

Himachal Pradesh Power Transmission Corporation Ltd.
(A State Govt. Undertaking)
Regd. Office: Himfed Bhawan, New SBBT Road, Panjari, Shimla-171005
Ph.: 0177-2831283, 2831284 FAX.: 0177-2831284
ICIN: U 40101 HP 2008 SGC 030950
(GSTIN): 02 AACCH1548M1ZP

Tender Notice

Under mentioned tenders of HPPTCL are under the process of bid opening:-

Sr. No.	Tender No.	Date of Opening
1.	16-SS/KW/HPPTCL/66/220kV/Add. Sunda Substation	04.12.2018
2.	13-SS/KW/HPPTCL/22/132kV/Tauni Rural Substation	06.12.2018
3.	11-SS/KW/HPPTCL/33/220kV/Add. Chamir Substation	10.12.2018
4.	14-SS/KW/HPPTCL/33/132kV/Rajpin Substation	14.12.2018

With the approval of KW, HPPTCL have made slight variations in the Qualification Requirements of above tenders, all the prospective bidders are requested to visit our website www.hpptcl.com and tender wizard portal for further information.

Sd/-
(Er. K.N Sharma)
DGM (Contracts)
E-mail: dgmcontracts@hpptcl.in

Rc. No. 857/2018-2019

www.ncr.indianrailways.gov.in पर टेलीग्राफ्ड स्पीड से रन कई देशों

रेलवे भर्ती सेल, उत्तर म

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North central railways: www.ncr.indianrailways.gov.in railwaynorthcentral

ADVERTISEMENT

ion of 10-Year Himachal Pradesh Government Stock (S

overnment of Himachal Pradesh has offered to sell by auction the dated ₹500.00 Crore with 10 (ten) year tenure. Securities will be issued for a min ₹10,000/- and multiples of ₹10,000/- thereafter. Auction which will be yield/ mat will be conducted by Reserve Bank of India at Mumbai Office (Fort) terested persons may submit bids for the auction in electronic format, on re Banking Solution (E-Kuber) system as stated below on November 27

The Competitive bids shall be submitted electronically on the Reserve B olution (E-Kuber) system between 10:30 AM and 12:00 PM.

The Non-Competitive bids shall be submitted electronically on Reserve

General Manager (C&D)
HPPTCL, Shimla-5

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उजाला

साल में ही चलन से बाहर

राब होने से नए नोटों को नॉन इश्यूबल श्रेणी में डालने लगे है

सोना ₹31,850 0

चांदी ₹37,300 60

धर्मशाला | बुधवार, 28 नवंबर 2018

कनेक्टिविटी को

ालय की मंजरी

एक अन्य बैंक के अधिक

Executive Engineer, (R&B) M.C. Shimla

achal Pradesh Power Transmission Corporation Ltd.
(A State Govt. Undertaking)
Regd. Office: Himfed Bhawan, New ISBT Road, Panjari, Shimla-171005
Ph.: 0177-2831283, 2831284 FAX: 0177-2831284
(CIN: U 42101 HP 2008 SGC 030950
(GSTN: 02 AACCH1548M1ZP

Tender Notice

mentioned tenders of HPPTCL are under the process of bid opening:-

Tender No.	Date of Opening
15-SS/KV/HPPTCL/66/220kV/Add. Sunda Substation	04.12.2018
13-SS/KV/HPPTCL/220/132kV/Tangyu Kothi Substation	06.12.2018
17-SS/KV/HPPTCL/132/220kV/Add. Chaior Substation	10.12.2018
14-SS/KV/HPPTCL/33/132kV/Rupin Substation	14.12.2018

The approval of KFW, HPPTCL have made slight variations in the Qualification requirements of above tenders, all the prospective bidders are requested to visit our site www.hpptcl.com and tender wizard portal for further information.

— Sd —
(Er. K.N Sharma)
DGM (Contracts)
E-mail: dgmcontracts@hpptcl.in

No. 05752016-2018

RESS NOTE TO BE ISSUED FOR PUBLICATION

अदद सेटों का बाहरी सौन्दर्य का सुधार तथा 5
की मरम्मत, नवीकरण एवं अपग्रेडेशन। निविदा
17,59,480/-रु., धरोहर राशि:-35,190/-रु.,
करने की अंतिम तिथि व समय-04-12-2018
2. निआमु सं.-150/2018-19/ई0/एससी
आईआईएम आर.पी. निवास शिमला (हि.प्र.)
वाले रास्ते को स्टोन पिचिंग की मरम्मत तथा स्
रास्ते की मरम्मत। निविदा में भरी जाने वाली
धरोहर राशि:-49,573/-रु., समापन अवधि:-60
व समय-04-12-2018 को अप. 3.00 बजे
3. निआमु सं.-148/2018-19/ई0/एममीडी-
2018-19 के दौरान बेमलोह सैक्शन शिमला के
एवं सौन्दर्य सुधार। उपशीर्ष-ओटलैड, बेमलोह
के प्रीकोटिड शौट सनरोड का अपग्रेडेशन एवं
28,94,306/-रु., धरोहर राशि:-57,886/-रु
करने की अंतिम तिथि व समय-04-12-2018
निविदा प्रपत्रों तथा अन्य विवरणों को निम्न वे
www.tenderwizard.com/CPWD

थ, दिसम्बर, 2018 तक अपरा 3 बजे तक देखा जा
इलाहाबाद के वेवसाइट www.rrcald.org पर
पर दिनांक 01.12.2018 से उपलब्ध है।

अध्यक्ष,
रेलवे भर्ती सेल, उत्तर मध्य रेलवे, इलाहाबाद

shrailways.gov.in railwaynorthcentral@CPRONCR

ERTISEMENT

radesh Government Stock (Securities)

offered to sell by auction the dated securities for an amou
ure. Securities will be issued for a minimum nominal amount
hereafter. Auction which will be yield based under multiple pri
ank of India at Mumbai Office (Fort) on November 27, 2018
the auction in electronic format, on the Reserve Bank of In
tem as stated below on November 27, 2018 -
itted electronically on the Reserve Bank of India Core Banki
0:30 AM and 12:00 PM.
submitted electronically on Reserve Bank of India Core Bank
0:30 AM and 11:30AM.

General Manager (C&D)
HPPTCL, Shimla-5

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No.		
1.	Supply of M.S Annealed Wire for the work of Constructing 5 No. Studs. In between R.D 56000-58000/5-L bandh along river Sutlej (Madhepur Complex)	9.62 Lacs

Closing Date & Time :- 06.12.2018/13:00 Hrs.
For details logon to :- http://eproc.punjab.gov.in
Note:- any corrigendum(s) to the tender notice shall be published on the above website only.

Sd/-Executive Engineer,
Ludhiana Drainage Division, Ludhiana.

DPR/Pb/D3137

HIMACHAL PRADESH POWER TRANSMISSION CORPORATION LTD.
(A State Govt. Undertaking)
Regd. Office: Himfed Bhawan, New ISBT Road, Panjari, Shimla-171005
Web: www.hpptcl.com Ph.: 0177-2831283, 2831284 FAX: 0177-2831284
(CIN): U40101HP2008SGC030950 (GSTIN): 02AACCH1548M1ZP

TENDER NOTICE

Under mentioned tenders of HPPTCL are under the process of bid opening:-

Sr. No.	Tender No.	Date of Opening
1.	16-SS/KfW/HPPTCL/66/220kV/Add. Sunda Substation	04.12.2018
2.	13-SS/KfW/HPPTCL/22/132kV/Tangnu Romal Substation	06.12.2018
3.	17-SS/KfW/HPPTCL/33/220kV/Add. Charor Substation	10.12.2018
4.	14-SS/KfW/HPPTCL/33/132kV/Rupin Substaion	14.12.2018

With the approval of KfW, HPPTCL have made slight variations in the Qualification Requirements of above tenders, all the prospective bidders are requested to visit our website www.hpptcl.com and tender wizard portal for further information.

Sd/- (Er. K.N Sharma), DGM (Contracts)
E-mail: dgmcontracts@hpptcl.in

DPR/HP/575

her OAB, even if it meant violating the protocol".

Apparently on the back foot for not speaking against the Badals at the event, Chief Minister Capt Amarinder Singh today tweeted that MLAs were rightly irked over the names of the Badals on the plaque. He said it was wrong of Union Minister Harsimrat Kaur Badal to rake up the 1984 issue on the historic religious occasion. He alleged that the Akalis were in the habit of exploiting religion for political gains. Cabinet Ministers and MLAs are learnt to have taken up the issue with the CM.

Even as Cooperation Minister and Dera Baba Nanak MLA Sukhjinder Randhawa turned tables on the SAD-BJP leaders by questioning the BJP's intention.

> **66** It was wrong of Harsimrat Kaur Badal to rake up the 1984 issue on the historic religious occasion. The Akalis are in the habit of exploiting religion for political gains.
> Capt Amarinder Singh, CHIEF MINISTER

Sukhjinder Randhawa, who had strongly objected to Union Minister Harsimrat Badal's speech wherein she highlighted the achievements of the Modi government and raked up the issue of the anti-Sikh riots, said it was wrong on part of the BJP to use the occasion for political gains.

General Manager (C&D)
HPPTCL, Shimla-5

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The Tribune
JALANDHAR | SATURDAY | 8 DECEMBER 2018

Finance firm staffer robbed of ₹40,000

Muktsar: Two unidentified masked persons looted Rs 40,000 from an employee of a finance company near Bhagsar village here on Friday. Lakhwinder Singh...

Residents raze walls barri passage to unsafe bridg

Sangrur: A 19-year-old girl has gone missing from Malerkotla town of Sangrur. The police have registered a case against a local and started further investigations. "On the complaint of the missing girl's mother, we have registered a case against a local youngster, Abhi, and are conducting raids. She has alleged that her daughter went missing on December 3 and alleged that Abhi was involved in it," said Sub Inspector Sahib Singh. TNS

...Universities (AIU) North Zone Vice-Chancellor's Meet at Chandigarh University. The ultimate target that the government had set was to take the strength of foreign students to five lakh by 2023, for which the MHRD had identified 30 countries and 130 Indian universities and institutions to focus on in its first phase, Sandhu said.

Vice-Chancellors from more than 65 Central, state, deemed and private universities offered flexibility to students in terms of wide variety of subjects.

"Every student has a different choice, a different level of intelligence and aspirations, so our academic learning model should offer them freedom to exercise his decision and not restrict him to the decade-old education system, which we in India are following," he said.

Prof Sandeep Sancheti, President, AIU, said, "Like tary General, AIU, highlighted the importance of revamping the course curriculum being taught by the universities so that it matched the changing technology advancements and industry demands.

The VCs deliberated on issues such as 'Challenges in global positioning of Indian institutions in the field of higher education' and 'Funding in research: A way forward for universities'.

He alleged that ...jeet and his ... assaulted him ... father when they ... stop them from ... ing the already co... shed on their land ...

A case under Sec... 447, 511, 323, 427 ... 149 IPC was ... against 10 per... police said.

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Government of India
National Rural Infrastructure Development Agency (NRIDA)
Invites applications for the post of Director (F&A) in the Pay Matrix 14 (Rs. 37,400-67,000 + GP Rs. 10,000 Pre-revised) on deputation basis

The application should be submitted through proper channel accompanied with (i) cadre clearance (ii) Vigilance clearance certificate and certified copies of annual performance appraisal report of the last 5 years. The Last date of receipt of application in NRIDA is 11th January 2019. The application complete in all respect shall be addressed to Director (F&A), National Rural Infrastructure Development Agency (NRIDA), 5th Floor, 15 NBCC Tower, Bhikaji Cama Place, New Delhi — 110066

For details & eligibility criteria login to the website www.pmgsy.nic.in under 'vacancy icon'

davp 35104/11/0013/1819

HIMACHAL PRADESH POWER TRANSMISSION CORPORATION LTD.
(A State Govt. Undertaking)
Office: Himfed Bhawan, New ISBT Road, Panjari, Shimla — 171005
Web: www.hpptcl.com Ph.: 0177-2831283, 2831284 FAX: 0177-2831284
(CIN): U40101HP2008SGC030950 (GSTIN): 02AACCH1548M1ZP

"CORRIGENDUM No. 1"

The due date of Tender sale, submission and opening of bids invited for "17-SS/KFW/HPPTCL/33/220 KV Add Charor S/Stn" for "Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Dist.-Kullu of Himachal Pradesh (India)" on Turnkey Basis is hereby extended as under:-

Description	Earlier Deadline	Revised Deadline
Tender Sale	3rd December, 2018 up to 12:00 Noon	10th December, 2018 up to 12:00 Noon
Submission of bids (Online)	5th December, 2018 up to 05:00 p.m.	17th December, 2018 up to 05:00 p.m.
Submission of bid (Offline)	10th December, 2018 up to 01:00 p.m.	18th December, 2018 up to 01:00 p.m.
Tender opening	10th December, 2018 at 03:00 p.m.	18th December, 2018 at 03:00 p.m.

All other terms and conditions shall remain unchanged.

Sd/- (Er. K N Sharma), DGM (Contracts)
E-mail:- dgmcontracts@hpptcl.in

DPR/HP/604

PUBLIC NOTICE/TENDER NOTICE

Sr. No.	Name of Department	Name of Work/	Opening Date	Amount	Website of the

General Manager (C&D)
HPPTCL, Shimla-5

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29.72

The Tribune
BATHINDA | SATURDAY | 8 DECEMBER 2018

Finance firm staffer robbed of ₹40,000

Muktsar: Two unidentified masked persons looted Rs 40,000 from an employee of a finance company near Bhagsar village here on Friday. Lakhwinder Singh complained to the police that when he was returning after collecting money from villages, two bike-borne [illegible] December 3 and alleged that Abhi was involved in it," said Sub Inspector Sahib Singh. TNS

Residents raze walls | passage to unsafe bi

Public Works Dept had blocked entry for commi

BALWANT GARG
TRIBUNE NEWS SERVICE



Government of India
National Rural Infrastructure Development Agency (NRIDA)

Invites applications for the post of Director (F&A) in the Pay Matrix 14 (Rs. 37,400-67,000 + GP Rs. 10,000 Pre-revised) on deputation basis

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For details & eligibility criteria login to the website www.pmgsy.nic.in under 'vacancy icon'

davp 35104/11/0013/1819

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(A State Govt. Undertaking)
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"CORRIGENDUM No. 1"

The due date of Tender sale, submission and opening of bids invited for "17-SS/KFW/HPPTCL/33/220 KV Add Charor S/Stn" for "Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.-Kullu of Himachal Pradesh (India)" on Turnkey Basis is hereby extended as under:-

Description	Earlier Deadline	Revised Deadline
Tender Sale	3rd December, 2018 up to 12:00 Noon	10th December, 2018 up to 12:00 Noon
Submission of bids (Online)	9th December, 2018 up to 05:00 p.m.	17th December, 2018 up to 05:00 p.m.
Submission of bid (Offline)	10th December, 2018 up to 01:00 p.m.	18th December, 2018 up to 01:00 p.m.
Tender opening	10th December, 2018 at 03:00 p.m.	18th December, 2018 at 03:00 p.m.

All other terms and conditions shall remain unchanged.

Sd/- (Er. K N Sharma), DGM (Contracts)
E-mail:- dgmcontracts@hpptcl.in

DPR/HP/604

PUBLIC NOTICE/TENDER NOTICE

Sr. No.	Name of Department/ Board/Corp./Auth.	Name of Work/ Notice/ Tender	Opening Date Closing Date (Time)	Amount (Tender Fees)	Website of the Department	Nodal Officer/ Contact Details/ Emails	Tender Ref. No./ Tender No.
1.	District Health & Family Welfare Society Fatehabad C/o Civil Surgeon, Sector 3, HUDA Polyclinic (Ist Floor) Fatehabad	Appointment of Concurrent Auditor for District Health & Family Welfare Society Fatehabad for the F.Y. 2018-19 for Audit of all programmes under NHM & Non NHM	Opening Date 10.12.2018 by 10.30 a.m. Closing Date 21.12.2018 by 01.00 p.m.	Tender Fees Rs. 500/- (Non-Refundable) in favour of District Health & Family Welfare Society, Fatehabad	http://www.etenders.hry.nic.in	Civil Surgeon Fatehabad/ 01667-230201/ dhs.cstb@hry.nic.in	NHM/E-tender/ Concurrent Audit/ 2018-19/68 dated: 06.12.2018

PRDH/74043

Sd/- Chairman (Executive Council)-cum-Civil Surgeon, DHFWS, Fatehabad.



General Manager (C&D)
HPPTCL, Shimla-5

Scanned by CamScanner

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The Tribune
CHANDIGARH | SATURDAY | 8 DECEMBER 2018
PUNJ

Finance firm staffer robbed of ₹40,000

Muktsar: Two unidentified masked persons looted Rs 40,000 from an employee of a finance company near [illegible] local youngster, Abhi, and are conducting raids. She has alleged that her daughter went missing on December 3 and alleged that Abhi was involved in it," said Sub Inspector Sahib Singh. TNS

Residents raze walls ba[illegible] passage to unsafe brid[illegible]

[illegible] first phase, Sandhu said.

Vice-Chancellors from more than 65 Central, state, deemed and private uni- [illegible] the decade-old education system, which we in India are following," he said.

Prof Sandeep Sancheti, President, AIU, said, "Like global positioning of Indian institutions in the field of higher education' and 'Funding in research: A way forward for universities'.

[illegible] against 10[illegible] police said.

IndianOi[illegible]

It has c[illegible] offering
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DISC[illegible] loss[illegible] as[illegible] aut[illegible]

Government of India
National Rural Infrastructure Development Agency (NRIDA)

Invites applications for the post of Director (F&A) in the Pay Matrix 14 (Rs. 37,400-67,000 + GP Rs. 10,000 Pre-revised) on deputation basis

The application should be submitted through proper channel accompanied with (i) cadre clearance (ii) Vigilance clearance certificate and certified copies of annual performance appraisal report of the last 5 years. **The Last date of receipt of application in NRIDA is 11th January 2019. The application complete in all respect shall be addressed to Director (F&A), National Rural Infrastructure Development Agency (NRIDA), 5th Floor, 15 NBCC Tower, Bhikaji Cama Place, New Delhi — 110066**

For details & eligibility criteria login to the website **www.pmgsy.nic.in** under 'vacancy icon'

davp 35104/11/0013/1819

HIMACHAL PRADESH POWER TRANSMISSION CORPORATION LTD.

(A State Govt. Undertaking)

Office: Himfed Bhawan, New ISBT Road, Panjari, Shimla — 171005

Web: www.hpptcl.com Ph.: 0177-2831283, 2831284 FAX: 0177-2831284
(CIN): U40101HP2008SGC030950 (GSTIN): 02AACCH1548M1ZP

"CORRIGENDUM No. 1"

The due date of Tender sale, submission and opening of bids invited for "17-SS/KFW/HPPTCL/33/220 KV Add Charor S/Stn" for "Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220KV CHAROR Sub Station, Distt.-Kullu of Himachal Pradesh (India)" on Turnkey Basis is hereby extended as under:-

Description	Earlier Deadline	Revised Deadline
Tender Sale	3rd December, 2018 up to 12.00 Noon	10th December, 2018 up to 12.00 Noon
Submission of bids (Online)	5th December, 2018 up to 05:00 p.m.	17th December, 2018 up to 05:00 p.m.
Submission of bid (Offline)	10th December, 2018 up to 01:00 p.m.	18th December, 2018 up to 01:00 p.m.
Tender opening	10th December, 2018 at 03.00 p.m.	18th December, 2018 at 03:00 p.m.

All other terms and conditions shall remain unchanged.

Sd/- (Er. K N Sharma), DGM (Contracts)
E-mail:- dgmcontracts@hpptcl.in

DPR/HP/604

PUBLIC NOTICE/TENDER NOTICE

Sr. No.	Name of Department/ Board/Corp./Auth.	Name of Work/ Notice/ Tender	Opening Date Closing Date (Time)	Amount (Tender Fees)	Website of the Department	Nodal Officer/ Contact Details/ Emails	Tender Ref. No./ Tender No.
1.	District Health & Family Welfare Society Fatehabad O/o Civil Surgeon, Sector 3, HUDA Polyclinic (Ist Floor) Fatehabad	Appointment of Concurrent Auditor for District Health & Family Welfare Society Fatehabad for the F.Y. 2018-19 for Audit of all programmes under NHM & Non NHM	Opening Date 10.12.2018 by 10.30 a.m. Closing Date 21.12.2018 by 01.00 p.m.	Tender Fees Rs. 500/- (Non-Refundable) in favour of District Health & Family Welfare Society, Fatehabad	http://www.etenders.hry.nic.in	Civil Surgeon Fatehabad/ 01667-230201/ dhs.csfib@hry.nic.in	NHM/E-tender/ Concurrent Audit/ 2018-19/68 dated: 06.12.2018

PRDH/74043

Sd/- Chairman (Executive Council)-cum-Civil Surgeon, DHFWS, Fatehabad.

General Manager (C&D)
HPPTCL, Shimla-5

Scanned by CamScanner

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अमर उजाला
सोना (10 ग्राम) ₹32,100 10
चांदी (1 किग्रा) ₹37,700 75
धर्मशाला | शनिवार, 8 दिसंबर 2018
विकास गाथा का
इंफ्रा, सेवा, हेल्थकेयर व शिक्षा क्षेत्र में बह
रुपये में तेजी से सेंसेक्स
361 अंक चढ़ा
बाजार की प्रतिक्रिया के बारे में हमें बताएं। हमें निम्नलिखित समाचारों की घोषणा की।
प्रतिक्रिया और सुझाव भेजें : karobar@del.amarujala.com

Himachal Pradesh Power Transmission Corporation Ltd.
(A State Govt. Undertaking)

Office: Himfed Bhawan, New ISBT Road, Panjari, Shimla-171005
Ph.:- 0177-2831283, 2831284 FAX:-0177-2831284
(CIN):U40101HP2008SGC030950, (GSTIN):02AACCH1548M1ZP

"CORRIGENDUM No. 1"

The due date of Tender sale, submission and opening of bids invited for "17-SS/KFW/HPPTCL/3X220 KV Add Charor S/Stn" for "Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 3X220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh (India)" on Turnkey Basis is hereby extended as under:-

Description	Earlier Deadline	Revised Deadline
Tender Sale	3rd December, 2018 upto 12:00 Noon	10th December, 2018 upto 12:00 Noon
Submission of bids (Online)	9th December, 2018 upto 05:00 pm	17th December, 2018 upto 05:00 pm
Submission of bid (Offline)	10th December, 2018 upto 01:00 pm	18th December, 2018 upto 01:00 pm
Tender opening	10th December, 2018 at 03:00 pm	18th December, 2018 at 03:00 pm

All other terms and conditions shall remain unchanged.

Sd/-
(Er. K N Sharma)
DGM (Contracts)
E-mail:- dgmcontracts@hpptcl.in

ed from desirous and eligible candidates for recruitment to various sh Government. Online Recruitment Applications (ORA) can be hereafter link will be disabled. The detail of posts is as under:-

	No. of Posts
ucation, H.P.	
Gazetted) in Pt. Jawahar Lal Nehru Govt.	01(UR)
(Gazetted) in Pt. Jawahar Lal Nehru Govt.	01(UR)
s-I (Gazetted) in Pt. Jawahar Lal Nehru	01(UR)
Gazetted) in Pt. Jawahar Lal Nehru Govt.	01(UR)
-I (Gazetted) in Pt. Jawahar Lal Nehru	01(UR)
e) Class-I (Gazetted) in Pt. Jawahar	01(UR)
lass-I (Gazetted) in Pt. Jawahar Lal	02(UR)
ediatrics) Class-I (Gazetted) in Pt. Chamba.	01(UR)
eneral Surgery) Class-I (Gazetted) in Pt. Chamba.	02(UR)
(Gazetted) in Pt. Jawahar Lal Nehru	01(UR)
y) Class-I (Gazetted) in Pt. Jawahar	01(UR)

General Manager (C&D)
HPPTCL, Shimla-5

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कारोबार
amarujala.com
चंडीगढ़ | शनिवार, 8 दिसंबर 2018

ध्याय खत्म, सर्वश्रेष्ठ आना बाकी

पर मौजूद



फूड प्रोसेसिंग में एमएसएमई तंत्र की मजबूती के लिए नाबार्ड जैसी एजेंसियां सरकार के साथ

शिखर सम्मेलन के दौरान कहा कि विदेशी पूंजी को भारत में निवेश करने पर बढ़ावा मिलेगा। इंफ्रास्ट्रक्चर, सेवा, हेल्थकेयर व शिक्षा क्षेत्र में बहुत अधिक अवसर मौजूद हैं। देश के इंफ्रास्ट्रक्चर क्षेत्र में अगले कुछ सालों में असाधारण विकास का होगा।

निवेश पर जोर

साधारण वृद्धि
मोटो की
यादी ढांचे के
हुए उन्होंने

कहा कि यह इतने बड़े देश की सख्त जरूरत है। केंद्रीय मंत्री ने कांग्रेस सरकार पर निशाना साधते हुए कहा कि अभी सरकार को हर साल बुनियादी ढांचे पर 10 फीसदी निवेश करना है, ऐसा इसलिए क्योंकि पहले की हम निवेश करने में असफल रहे हैं। एजेंसी

दिल्ली था जीडीपी 3 से 4 फीसदी बढ़ाने का लक्ष्य

केंद्र सरकार हरेक जिले में ग्रुथ सार पर काम करने पर विचार कर रही है, जिससे देश की कुल जीडीपी में सुधार होगा। हम सभी जिलों को जीडीपी तीन से चार फीसदी बढ़ाने के लिए आकलन कर रहे हैं। साथ ही फूड प्रोसेसिंग में मुख्य व मझोले उद्योग तंत्र को मजबूत करने के लिए नाबार्ड जैसी एजेंसियां सरकार के साथ इस परियोजना पर काम कर रही हैं। सरकार पहले ही वाराणसी सहित छह जिलों को इस परियोजना के पहले चरण के लिए चुन चुकी है।

नए मुख्य आर्थिक सलाहकार हैं रघुरा राजन के शिष्य

कैबिनेट ने नियुक्ति को दी मंजूरी, अरवि सुब्रमणियन की लेंगे जगह

अमर उजाला ब्यूरो/एजेंसी



नई दिल्ली। सरकार ने शुक्रवार को इंडियन स्कूल ऑफ बिजनेस (आईएसबी) हैदराबाद के प्रोफेसर कृष्णमूर्ति सुब्रमणियन को तीन वर्षों के लिए मुख्य आर्थिक सलाहकार (सीईए) नियुक्त किया है। अरविंद सुब्रमणियन द्वारा गत जुलाई में सोदेश्य पद छोड़ने के बाद से यह पद खाली था। सरकार ने कहा कि कैबिनेट की नियुक्ति समिति ने आईएमबी हैदराबाद के एसोसिएट प्रोफेसर व ईटी (सोएफ) डॉ. कृष्णमूर्ति सुब्रमणियन को मुख्य आर्थिक

सात का होगा का
जेपी मॉर्गन चेस

रघुराम राजन के
में पूरी की पीएच
आईआईटी व आईआई
करने वाले सुब्रमणियन
अमेरिका की पूर्वमिशि
शिकागो के बूथ स्कूल

छला

कस और
पोर्ट

ा; वहीं, अन्य
ट से दिन के

रुपया 8 पैसे की तेजी के साथ 70.82 पर बंद

मुंबई। घरेलू शेयरों में मजबूती और सकारात्मक वैश्विक संकेतों के कारण रुपया शुक्रवार को डॉलर के मुकाबले 8 पैसे मजबूत होकर 70.82 पर बंद हुआ। फॉरेक्स डीलरों के मुताबिक, केंद्रीय रिजर्व द्वारा अगले साल ब्याज दरों में वृद्धि को गति को धीमा करने की खबरों के कारण डॉलर में अन्य विदेशी मुद्राओं के मुकाबले नरमी से घरेलू बाजार में तेजी रही। फॉरेक्स में रुपया 70.58

1 जनवरी से महंगी होंगी फॉक्सवैगन की कारें

मुंबई। जर्मन ऑटो कंपनी फॉक्सवैगन ने शुक्रवार को कहा कि वह 1 जनवरी, 2019 से भारत में मौजूद अपने सभी मॉडल की कारों की कीमतों में तीन फीसदी तक की बढ़ोतरी करेगी। कंपनी ने बयान में कहा कि लागत बढ़ने और रुपये में गिरावट को वजह से कीमतें बढ़ाने का फैसला लिया गया है। कंपनी के निदेशक (सेल्स कॉर्प) स्टीफन नैप ने कहा कि रुपये में गिरावट के कारण अर्थव्यवस्था में गतिशील परिवर्तनों और बढ़ती लागत को

Himachal Pradesh Power Transmission Corporation Ltd.
(A State Govt. Undertaking)
Office: Himfed Bhawan, New ISBT Road, Panjari, Shimla-171005
Ph.:- 0177-2831283, 2831284 FAX:-0177-2831284
(CIN):U40101HP2008SGC030950, (GSTIN):02AACCH1548M1ZP

"CORRIGENDUM No. 1"

The due date of Tender sale, submission and opening of bids invited for "17-SS/KFW/HPPTCL/33/220 KV Add Charor S/stn" for "Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 160 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh (India)" on Turnkey Basis is hereby extended as under:-

Description	Earlier Deadline	Revised Deadline
Tender Sale	3rd December, 2018 upto 12:00 Noon	10th December, 2018 upto 12:00 Noon
Submission of bids (Online)	9th December, 2018 upto 05:00 pm	17th December, 2018 upto 05:00 pm
Submission of bid (Offline)	10th December, 2018 upto 01:00 pm	18th December, 2018 upto 01:00 pm
Tender opening	10th December, 2018 at 01:30 pm	18th December, 2018 at 01:30 pm

and bid should be
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a in this tender.

Item No. (II) : Department of Ayurveda, H.P.

1. Pharmaceutical Chemist, Class-II (Non Gazetted) on contract basis in DTL (Drug Testing Laboratory), Joginder Nagar.

The desirous/ eligible candidates can apply online through Commission's website w
Applications received through any other mode will not be accepted and will be
Essential qualification(s), eligibility conditions and examination fees etc., have be
detailed advertisement and instructions for filling up online recruitment application
above referred website.

Note: 1. The desirous/ eligible candidates are advised to apply well in time witho
closing date for submission of online recruitment applications (ORA) in or
inconvenience due to congestion on the above referred website on the last date.
2. Provisionally admitted candidates will have to submit a printout/ hard copy of o
application(s) (ORA) along with self attested/ attested copies of required certific
in support of their eligibility as per essential qualifications for the concerned post(
Screening Test.

For more details, please visit website of H.P. Public Service Commission www.hp.go

H.P. Public Ser
Ph. No. 0177-2

General Manager (C&D)
HPPTCL, Shimla-5

Scanned by CamScanner

Government of Punjab

Tender/RFP Reference No. 15 of 2018 dt. 26.11.2018

The Department of PUNJAB WATER SUPPLY & SEWERAGE BOARD re-invites online bids for:-

Sr. No.	Name of the Work
1	Construction of 1 MLD STP on any suitable sustainable and proven technology at Sultanpur Lodhi town
2	Prov. RCC NP3 pipe with HDPE lining/S.W. pipe sewer, Construction of MPS, RCC P I Rising main, sewer house connections at Sultanpur Lodhi town
3	Prov. D.I. K-7 W/S lines, house connections at Sultanpur Lodhi town

Closing Date & Time: **10.12.2018 up to 5.00 P.M.**
For details logon to: **https://eproc.punjab.gov.in**
Note: Any corrigendum(s) to the tender/RFP Notice shall be published on the above website only.

Sd/-Executive Engineer,
Pb. W/S & Sew. Div. No. 2, Jalandhar.

DPR/Pb/D3154

Government of Punjab

E-Tendering Notice No.4498/G-A/tender/2018 Dated 20.11.2018

The Department Executive Engineer, Ludhiana Drainage Division, Ludhiana invites online bids for the following:-

Sr. No.	Item	Amount
1.	Supply of M.S Annealed Wire for the work of Constructing 5 No. Studs. In between R.D 58000-58000/5-L bandh along river Sutlej (Madhepur Complex)	9.62 Lacs

Closing Date & Time :- **06.12.2018/13:00 Hrs.**
For details logon to :- **http://eproc.punjab.gov.in**
Note:- any corrigendum(s) to the tender notice shall be published on the above website only.

Sd/-Executive Engineer,
Ludhiana Drainage Division, Ludhiana.

DPR/Pb/D3137

HIMACHAL PRADESH POWER TRANSMISSION CORPORATION LTD.

(A State Govt. Undertaking)

Regd. Office: Himfed Bhawan, New ISBT Road, Panjari, Shimla-171005
Web: www.hppicl.com Ph.: 0177-2831283, 2831284 FAX: 0177-2831284
(CIN): U40101HP2008SGC030950 (GSTIN): 02AACCH1548M1ZP

TENDER NOTICE

Under mentioned tenders of HPPTCL are under the process of bid opening:-

Sr. No.	Tender No.	Date of Opening
1.	16-SS/KW/HPPTCL/66/220kV/Add. Sunda Substation	04.12.2018
2.	13-SS/KW/HPPTCL/33/132kV/Tangnu Romai Substation	06.12.2018
3.	17-SS/KW/HPPTCL/33/220kV/Add. Charor Substation	10.12.2018
4.	14-SS/KW/HPPTCL/33/132kV/Tupin Substaion	14.12.2018

With the approval of KW, HPPTCL have made slight variations in the Qualification Requirements of above tenders, all the prospective bidders are requested to visit our website www.hpptcl.com and tender wizard portal for further information.

Sd/- (Er. K.N Sharma), DGM (Contracts)
E-mail: dgmcontracts@hpptcl.in

DPR/HP/575

NAVODAYA VIDYALAYA SAMITI, REGIONAL OFFICE, CHANDIGARH

Cong leaders accuse BJP of politicising event

2894

RAJMEET SINGH
TRIBUNE NEWS SERVICE

CHANDIGARH, NOVEMBER 27

The BJP-led NDA government is under fire from senior Congress leaders for "politicising" the yesterday's stone-laying ceremony by "trying to give mileage to its alliance partner SAD, even if it meant violating the protocol".

Apparently on the back foot for not speaking against the Badals at the event, Chief Minister Capt Amarinder Singh today tweeted that MLAs were rightly irked over the names of the Badals on the plaque. He said it was wrong of Union Minister Harsimrat Kaur Badal to rake up the 1984 issue on the historic religious occasion. He alleged that the Akalis were in the habit of exploiting religion for political gains.Cabinet Ministers and MLAs are learnt to have taken up the issue with the CM.

Even as Cooperation Minister and Dera Baba Nanak MLA Sukhjinder Randhawa turned tables on the SAD-BJP leaders by questioning the conduct of the event by the BJP PPCC chief Sunil Ja[illegible]rmed it a "deliber-



"It was wrong of Harsimrat Kaur Badal to rake up the 1984 issue on the historic religious occasion. The Akalis are in the habit of exploiting religion for political gains.
Capt Amarinder Singh, CHIEF MINISTER

tioning the BJP's intention.

Sukhjinder Randhawa, who had strongly objected to Union Minister Harsimrat Badal's speech wherein she highlighted the achievements of the Modi government and raked up the issue of the anti-Sikh riots, said it was wrong on part of the BJP to use the occasion for political gains.

BJP praises Capt for declining Pak invite

Former state BJP presi-[illegible]

Scanned by CamScanner

General Manager (C&D)
HPPTCL, Shimla-5

2077

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Bid Submission End date for Tender: 28.12.2018 17.00 Hrs
Pre Bid Meeting for Expression of Interest: 14.12.2018 10:00 Hrs

Advt. No. NCAOR/56/18

5d/-
For & on behalf of Director, NCPOR

अपना वेश भी साफ हो, इसमें हम सब का भाग हो।

HIMACHAL PRADESH POWER TRANSMISSION CORPORATION LTD.
(A State Govt. Undertaking)
Office : Himfed Bhawan, New ISBT Road, Panjari, Shimla-171005
Web: - www.hpptcl.com
Ph. :- 0177-2831283, 2831284 FAX:-0177-2831284
(CIN) : U40101HP2008SGC030950 (GSTIN) : 02AACCH1548M1ZP

CORRIGENDUM No. 1

The due date of Tender sale, submission and opening of bids invited for **17-SS/KFW/HPPTCL/33/220 KV Add Charor S/Stn** for Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh (India) on Turnkey Basis is hereby extended as under :-

Description	Earlier Deadline	Revised Deadline
Tender Sale	3rd December, 2018 upto 12:00 Noon	10th December, 2018 upto 12:00 Noon
Submission of bids (Online)	9th December, 2018 upto 05:00 pm	17th December, 2018 upto 05:00 pm
Submission of bid (Offline)	10th December, 2018 upto 01:00 pm	18th December, 2018 upto 01:00 pm
Tender opening	10th December, 2018 at 03:00 pm	18th December, 2018 at 03:00 pm

All other terms and conditions shall remain unchanged.

Sd
(Er. K N Sharma)
DGM (Contracts)
E-mail :- dgmcontracts@hpptcl.in

Advt.No. 0604/07/12/2018 HIM SUCHANA AVAM JAN SAMPARK

ENGINEERING DEPARTMENT, CHANDIGARH ADMINISTRATION, U.T., CHANDIGARH.

E-TENDER NOTICE

Tenders on Percentage Rate basis through e-Tendering process are invited/re-invited on behalf of Chandigarh Administration from approved contractors of appropriate class with validity of enlisment upto bid submission date enlisted with Chandigarh Administration, for the following works on the prescribed tender form available at website http://etenders.chd.nic.in/nicgep

Sr. No.	Name of Work	Estimated Tender Amount	Earnest Money	Time Limit	Last date of sub-mission of Bid
1	REPAIR OF OPEN SPACE ALONG CONFERENCE HALL AND PLINTH PROTECTION (BACKSIDE OF ROOM NO. 22) AT GROUND FLOOR IN STATE COMMISSION AND DISTRICT FORUM, SECTOR 19-D, CHANDIGARH.	₹ 8,75,393/-	₹ 18,000/-	02 Months	17/12/2018 11:00 AM
2	A/R TO R.B. UNDER MTC. BOOTH SECTOR 26, CHANDIGARH (TYPE-II NEW HOUSE SECTOR 26) (55 HOUSES).	₹ 10,09,200/-	₹ 20,500/-	04 Months	17/12/2018 11:00 AM
3	A/R TO R.B. UNDER MTC. BOOTH SECTOR 26 CHANDIGARH (TYPE-I NEW HOUSE SECTOR 26) (70 HOUSES).	₹ 7,49,400/-	₹ 15,000/-	03 Months	17/12/2018 11:00 AM
Date of Opening of Bid		17/12/2018 12:00 PM			

Executive Engineer,
C.P. Division No. 6,
2nd Floor, Additional Deluxe Building, Sector 9-D,
U.T. Chandigarh.
Ph. No. 0172-2740094
E-mail : xencp6@gmail.com

DPR/UT/9249-51

CHANDIGARH ADMINISTRATION
ENGINEERING DEPARTMENT

E-Tender Notice.

Executive Engineer, Project Public Health Division

winning a big match like this?
We need to start the game with full belief and with a

World's 1st Quad Camera
Watch Chelsea Vs Man City tonight at 11:00 PM LIVE on SELECT

Will come up with new variations today: Harendra

Manuja.Veerappa@timesgroup.com

Bhubaneswar: The Indian team is high on confidence but complacency against a lower-ranked team will not be on the agenda when they take on Canada at the Kalinga stadium on Saturday. "In modern sport, especially in a team sport, ranking and numbers are on paper. Every team that comes to a major tournament wants to play the last match on the last day. Smaller teams want to prove that they deserve to be here. So, they play with full energy," said India' s chief coach Harendra Singh.

Outlining the gameplan but not revealing much, Harendra said, "We will play some different kind of hockey tomorrow and try variations depending on the game and situation." Both the teams come into the contest well-rested following a five-day break after their previous round of matches. India skipper Manpreet Singh said the team has utilised the time to work on their fitness and plan their match against Canada. "We have worked on our fitness. There is time to study the other team, so we studied Canada."

Canada coach Paul Bundy, on the other hand, said his team will go into the contest with experience weighing in their favour. "I think India are fitter and faster than I can remember. They have lost a few senior players and with them some experience which they are going to need. Our team is fairly experienced and have played a lot together. I think we are a good team and they are an up-and-coming side," Bundy pointed out.

Both Bundy and captain Scott Tupper believe the pressure is on India and not Canada. "I don't think there is any pressure on Canada in this match. Other than some 8 fans, the rest will be cheering for India in the stadium. If India is playing well the crowd really gets going. But when things get hard and we can get into our game, the crowd has the tendency to go quiet. We will play a good brand of hockey against India. We are going to enjoy every moment of it," said Tupper.

"Every team that comes to a major tournament wants to play the last match on the last day. Smaller teams want to prove that they deserve to be here. So, they play with full energy"
HARENDRA SINGH
Coach of Indian hockey team

Dohmen heads back home

TIMES NEWS NETWORK

Bhubaneswar: John-John Dohmen consultation with the respiratory specialist in Belgium and Dohmen decid-

26.12.18

General Manager (C&D)
HPPTCL, Shimla-5

KFW

Himachal Pradesh Power Transmission Corp. Ltd.
Mr. Aman Kumar, Senior Manager (Contracts)
smcontracts3@hpptcl.in

Cc:
AECOM Asia Company Ltd.
Mr. Sat Paul Khatta
SatPaul.Khatta@aecom.com

Business area
KfW Entwicklungsbank

Hamann, Patrick (LEB5)
N/Ref.: HmP
Phone: +49 69 7431 - 2970
Fax: +49 69 7431 - 2944
Patrick.Hamann@kfw.de

Date: 21.09.2018

» **LEB2 German Financial Cooperation with India**
Green Energy Corridors
Project-No.: 34868
BMZ-No.: 201568120
Procurement No.: 503201

No Objection to Bidding Documents for Package "17-SS/ KFW/ HPPTCL/ 33/220kV Addl. Charor S/Stn"

Dear Sir,

Thank you for submitting the final draft bidding documents for the above-referenced tender package via e-mail dated 17 September 2018 for our review.

We would like to confirm that we have no objections to the bidding documents. Once you have defined all final dates and deadlines, please provide us with the full set of final bidding documents and the respective tender notice. The tender notice shall be shared with us at least three full business days prior to its publication date in order to ensure simultaneous publication in both Indian and German media.

Yours sincerely
KfW

Carolyn Neufeld
Head of Division

Patrick Hamann
Procurement Manager

General Manager (C&D)
HPPTCL, Shimla-5

H.P.POWER TRANSMISSION CORPORATION LIMITED
(A State Government Undertaking)
Regd. Office: HIMFED BHAWAN,PANJARI, TUTIKANDI SHIMLA-5,.
(CIN):U40101HP2008SGC030950
Ph: 0177-2832415, FAX: 0177-2632384 Web: hpptcl.gov.in

No. HPPTCL/DIR(P&C):- 119-49-86 Dated: 31-12-2018

OFFICE ORDER

In partial modification of this office OFFICE ORDER **No:HHPTCL/Contracts/ADB/ General/2014-15.418-25** the tender evaluation committee is hereby re constituted to open and evaluate the technical and Price Bids against all ADB / KFW Funded Tender Documents:-.

1) General Manager (C&D) HPPTCL, Shimla	Chairman
2) Dy. General Manager & Head Transmission HPPTCL, Hamirpur	Member
3) Dy. General Manager (finance) HPPTCL, Shimla	Member
4) Dy. General Manager HPPTCL of concerned zone (Shimla / Kullu / Chamba)	Member
5) Dy. General Manager (Contracts) HPPTCL, Shimla.	Member

Director (Planning & Contracts)
HPPTCL, Shimla-5.

No:-HHPTCL/Contracts/ADB/General/2014-15 **Date:-**

Copy forwarded to the following

1) P.S. to the Managing Director HPPTCL, Shimla for information please.
2) Director (Projects) HPPTCL, Shimla for information please.
3) General Manager (Projects) HPPTCL, Shimla for information please.
4) All the above members for information and necessary action please.
5) Sr. Manager (Contracts-I/ II /-III) HPPTCL, Shimla for information and necessary action please.

Director (Planning & Contracts)
HPPTCL, Shimla-5.

General Manager (C&D)
HPPTCL, Shimla-5

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HPPTCL
Web: - www.hpptcl.com

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(CIN):U40101HP2008SGC030950
(GSTIN):02AACCH1548M1ZP

RECORD OF BID OPENING (PART-1)

Loan No.	Intrastate Transmission System in Himachal Pradesh under Green Energy Corridors (GEC)	Project Title:	Green Energy Corridors, Intra State Transmission System in Himachal Pradesh
Bid No.	17-SS/KfW/HPPTCL/33/220kV GIS Additional Charor Substation	Bid Title:	"Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh (India)"
Place:	HPPTCL, Corporate Office, Shimla	Date:	***18.12.2018 at 15:00 Hrs.***

1. The following Bids were received Electronically by the closing time i.e. 17:00 Hrs. on 17.12.2018 and Hard Copies of same except Price Bid upto 1:00 PM, ***18.12.2018***:-

Sr. No.	Bidder's Name & Address	Bid Security Amount	Signature of Representative(s)
1.	M/s Kanohar Electrical Limited	6.2 Million INR or equivalent USD	

2. Following bidder's representatives attended the public opening of bids (Technical Part) and a copy of the attendance sheet is attached as an annexure of this record:-

Sr. No.	Name	Designation	Bidding Company Represented
1.	Yogesh Kuletha	Executive Sales	Kanohar Electricals Ltd.

3. Bid Opening Committee initialed the outer envelope at the beginning of the Bid Opening. It was noted that there was no defect in respect to the sealing and marking of the envelopes. The outer envelope of the bid of each Bidding Firm was then opened.

4. The Bid Security of each Bid was then checked and read aloud mentioning the amount of the Bid security and its validity. Each bid security was found to have Bank Guarantee of value amounting to 6.2 Million INR Or equivalent USD and as required vide Clause No. ITB 21.1.

5. The validity of the Bid Security is 28 days beyond the original validity period i.e. 240 days ***(15/08/2019)*** after the date of opening of bids which works out to be ***12/09/2019*** was checked of each Bid Security and the same was found to be in order.

18/12/18 18/12

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General Manager (C&D)
HPPTCL, Shimla-5

29

6. Technical bid of the bidders whose EMD was found in order were opened electronically and read at 15:00 Hrs. on 18.12.2018.

7. Reading and signing of documents ended at 3:40 PM Hrs.

18/12/18

DGM (Project)
HPPTCL, Shimla

DGM (Finance)
HPPTCL, Shimla

DGM (Contracts)
HPPTCL, Shimla

GM (C&D)
HPPTCL, Shimla

H.P. POWER TRANSMISSION CORPORATION LIMITED
HPPTCL

REGD. OFFICE: HIMFEDBHAWAN, NEW SBT ROAD, PANJARI, SHIMLA-171005
PH.:-0177-2831283, 2831284 FAX:-0177-2831284 WEB:- WWW.HPPTCL.COM
(CIN): U40101HP2008SGC030950
(GSTIN):02AACCH1548M1ZP

General Manager (C&D)
HPPTCL, Shimla-5

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ATTENDANCE SHEET FOR BID OPENING (Part-1)

Loan No.	Intrastate Transmission System in Himachal Pradesh under Green Energy Corridors (GEC)	Project Title:	Green Energy Corridors, Intra State Transmission System in Himachal Pradesh
Bid No.	17-SS/KfW/HPPTCL/33/220kV GIS Additional Charor Substation	Bid Title:	"Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh (India)"
Place:	HPPTCL, Corporate Office, Shimla	Date:	***18.12.2018 at 15:00 Hrs.***

The Following Bidders representatives attended the Bid meeting:-

Sr. No.	Bidder's Name & Address	Name	Designation	Signature of representative(s)
1.	Kanohar Electricals Ltd Kirtani Delhi Road Meerut	Yogesh Kulesha	Executive Sales	
2.				
3.				

18/12/18 10/12

18/12

(K N Thakur)

General Manager (C&D)
HPPTCL, Shimla-5

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HPPTCL
Web: - www.hppicl.com

HIMACHAL PRADESH POWER TRANSMISSION CORPORATION LTD.

(A State Govt. Undertaking)
Regd. Office: Himfed Bhawan, New ISBT Road,Panjari, Shimla-171005
Ph.:- 0177-2831283, 2831284 FAX:-0177-2831284
(CIN):U40101HP2008SGC030950
(GSTIN):02AACCH1546M1ZP

MOM of 1st Meeting of Technical Evaluation Committee (TEC) held on 05th January 2019 in the Office of the General Manager, HPPTCL, Himfed Bhawan, Panjari, Shimla-05.

Tender No: 17-SS/KFW/HPPTCL/33/220 KV Add Charor S/Stn

Title: - **Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh (India)" on Turnkey Basis.**

1st meeting of the Tender Evaluation Committee (TEC), constituted vide office order No. HPPTCL /DIR(P&C):- 11974-86 dated 31.12.2018 was held on 05.01.2019 to examine the Bids received and subsequent clarifications sought and replies submitted by the bidders:-

Following were Present:-

1. Er. Kaushlesh Kapoor, GM (C&D). ---- In chair.
2. Er. Bhupesh Uppal, DGM (Projects), HPPTCL, Sarabai
3. Er. K. N. Sharma, DGM (Contracts), HPPTCL, Shimla.
4. Er. Rajinder Sharma, DGM and Head, Transmission Designs, HPPTCL, Hamirpur.
5. Sh. Anil Kumar Sharma, DGM (Finance), HPPTCL, Shimla.

The committee was informed that after scrutiny of the bid of M/s Kanohar Electricals Limited in Collaboration with M/s Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan) some issues needed clarifications. Accordingly, clarifications were sought from M/s Kanohar Electricals Limited on 22nd December 2018. Replies for the same submitted by bidder are received vide letter dated 24th December 2018, 26th Decemeber 2018 and 1st January 2019 were scrutinized.

The DGM (Contracts) and DGM (Design) Hamirpur apprised the committee about the commercial and Technical points of the bids submitted by the bidders.

The TEC noted the memorandum placed along with reply submitted by the bidders and found the same in line with the requirements of tender documents /Specifications and meet the qualifying requirements, hence are acceptable.

KM Sharma

5/1

5.1.2019

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General Manager (C&D)
HPPTCL, Shimla-5

The Chairman TEC, advised DGM (Contracts) to prepare the technical evaluation report on priority and put up the same to the competent authority for approval, so that the TBER is sent to KfW for approval.

The meeting ended with a vote of thanks to and from the chair.

(Er. Bhupesh Uppal)
DGM (Projects)

(Er. Rajinder Sharma)
DGM & Head, Trans. Designs

(Sh. Anil Kumar Sharma)
DGM (Finance)

(Er. K. N. Sharma)
DGM (Contracts)

(Er. Kaushlesh Kapoor)
General Manager (C&D)

General Manager (C&D)
HPPTCL, Shimla-5

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BASIC DATA SHEET

1	Project Title	Green Energy Corridors , Intra State Transmission System in Himachal Pradesh
2	Bid Title	Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh (India).
3	Bid Number	17-SS/KfW/HPPTCL/33/220 KV Add Charor S/Stn.
4	Estimated Value	INR 309.9 Million
5	Date of Invitation for Bids Issued/ Date of Publication	13th October, 2018
6	Mode of Procurement	International Competitive Bidding; Single - Stage, Two - Envelope Bidding Procedure (Electronic Bidding Mode)
7	Bid Closing Date and Time	17:00 Hrs. on 17.12.2018 (Online) 13:00 Hrs. On 18.12.2018 (Hard copy Submission)
8	Bid Opening Date and Time	15:00 Hrs. on 18.12.2018
9	Number of Bids Received	One (1) Bid
10	Bid Validity Expires	15th August 2019 (240 days)
11	Date for Determining Applicable Exchange Rates	18.11.2018 (ITB-Section -2, Clause 37.1)

Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Vivek Dhiman
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

APPENDIX - 2		
TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor S/Stn		
COMPLIANCE REGARDING COMPLETENESS OF BID DOCUMENTS		
Bidder Name		M/s Kanohar Electricals Limited in Collaboration with M/s Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan)
ITEM	DESCRIPTION	Description*
1	**Bid Documents (Technical Proposal)**	
1.1	One Original + 1 Copy	Submitted
1.2	Form of Bid for Technical Proposal	Submitted
1.3	Unpriced Schedules	Submitted
1.4	Schedules of Particular Information	
	(1) *Contract Execution Schedule*	Submitted
	(2) *Financial Data*	Submitted
	(3) *Technical Data*	Submitted
	(4) *Bidders' Organization*	Submitted
	(5) *References from Previous Employers*	Submitted
1.5	Drawings and Documents to be submitted with Bid	Submitted
1.6	Joint Venture Agreement	NA
1.7	Decleration of Undertaking (Section-4 Bidding Forms) attched	Submitted
1.8	Undertaking regarding after Sales Service(Section-3 Clause 2.8)	Submitted
2	**Propriety of Signature and Completeness**	
2.1	Power of Attorney	Submitted
2.2	Bid Form (Technical Proposal), Schedules, properly signed or not	Yes
	Completeness of Bids	**Complete**

Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Vivek Dhiman
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

29.87

APPENDIX - 3			
TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor S/Stn			
COMPLIANCE REGARDING COMMERCIAL TERMS			
(COMMERCIAL TERMS)			
BIDDER Name			M/s Kanohar Electricals Limited in Collaboration with M/s Chung Hsin Electric & Machinery Mfg. Corp. (Talwan)
Sr. No	REQUIREMENTS	BIDDING DOCUMENT REFERENCE	Description*
1	Power of Attorney	Section 2; Clause 22.2	Complied
2	Signature on Bid Form and Schedule	Section 2; Clause 22.2	Complied
3	Joint Venture Agreement	Section 1; Clause 22.3	NA
4	Eligibility	Section 1; Clause 4 and 5	
(a)	*Bidder*		Complied
(b)	*Goods and Services*		Complied
5	Bid Validity 240 days i.e upto ***15.08.2019***	Section 2; Clause 20.1	Complied
6	Bid Security		
(a)	*Amount: INR 6.2 Million*	Section 2; Clause 21.1	Complied
(b)	*Bid Security Validity:* ***12.09.2019***	Section 1, Clause 21.2 (c)	11.12.2019
(c)	*Format and Terms*	Section 1, Clause 21.2	Complied
7	Fixed / Variable Price	Section 2; Clause 18.6	Fixed -2
8	Terms of Payment	Section 1, Clause 19	Accepted
9	Functional Guarantees and Penalties	Section 7; Clause 28	Accepted
10	Contract Execution Schedule	Section 2; Clause 16.1(b)	Complied
	Findings		**Responsive**

Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Vivek Dhiman
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

APPENDIX - 4		
TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor S/Stn		
COMPLIANCE REGARDING BIDDERS' QUALIFICATIONS		
	BIDDER Name	M/s Kanohar Electricals Limited in Collaboration with M/s Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan)
ITEM	DESCRIPTION	Description*
1	FINANCIAL CAPACITY	
1.1	Turnover (*Average of last three year in MINR*) (413.2 MINR)	1313.24 MINR
1.2	Liquid Assets (LA)/and evidence of access to or availability of credit facilities (51.65 MINR)	564 MINR
1.4	Cash Flow /financial resources (41.32 MINR)	200 MINR and Working Capital = 1070.29 MINR
1.5	Bid Security (6.2 MINR)	Submitted
1.6	Reference from KfW	NIL
2	TECHNICAL CAPABILITY	
2.1	Management	Pass
2.2	Professional Staff	Pass
2.3	Technicians	Pass
2.4	After Sales Service	Submitted
2.5	Engineering and Design Ability	Submitted
3	EXPERIENCE	
3.1	(a) Contracts of Similar Size and Nature Participation in at least: One contract of value 247.92 MINR or equivalent USD each, Or Two contracts of value 154.95 MINR or equivalent USD each, Or Three contracts of value 123.96 MINR or equivalent USD each, That have been successfully or substantially completed within the last Seven (7) years and that are similar to the proposed contract. The similarity of the Bidder's participation shall be based on the physical size, nature of works complexity, methods, technology or other characteristics as described in Section-1 (Technical Specification, Vol-II)	ChangLin EHV Substation 345kV GIS comprising 13 Bays amounting 33294629.58 US$ completed by Chung-Hsin Electric & Machinery Mfg.Corp. M/s Kanohar has a Technical Collaboration with Chung-Hsin Electric & Machinery Mfg. Corp.
4	REFERENCE FROM PREVIOUS EMPLOYERS	Submitted
	Findings	Responsive

Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Vivek Dhiman
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

APPENDIX-5		
TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor SIStn		
	COMPLIANCE REGARDING BIDDERS QUALIFICATION (CLAUSE WISE)	
	Name of Bidder	M/s Kanohar Electricals Limited In Collaboration with M/s Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan)
Sr.No.	Particulars As Tender Specifications	Description*
1.1	**Nationality:** As per ITB Sub Clause 4.2	Indian
1.2	**Completion Period: (Attachment-3)** As per Clause No. ITB16.1 (b) the work should be completed within 18 months (540 days) from the effective date as described in Contract Agreement including Operational Acceptance	Submitted
1.3	**Validity of the Bid:** - As per Clause No. ITB 20.1 the Bid shall remain valid for 240 days after opening of Bids i e upto ***15.08.2019***	Complied
1.4	**Bid Security:** - As per clause No. ITB 21.1 the amount and currency of the Bid Security Shall be 6.2 MINR or equivalent USD. The bid security shall be valid for Twenty-Eight days (28) beyond the original validity period of bid or beyond any period of extension if requested under ITB 20.2 ***Validity : Required upto 12.09.2019***	Submitted & Bid Security upto 11.12.2019
1.5	**Pending Litigation:** All pending litigation shall be treated as resolved as per Clause No. 2.2.1 of Section-3 (E & Q criteria) and not represent 50% of net Bidder's worth	Submitted
1.6	**Historical Financial Performance:** As per Section-3 Clause No. 2.3 (Financial Situation) Form FIN-1 for submission of audited balance sheets / financial statements for last three years.	Submitted
1.7	**Average Annual Turnover (Form FIN-2):** As per Clause 2.3.2 Section -3 (E&Q) , MAAT **for contracts in progress or completed in last 3 years financial years** as annualized should be **INR 413.2 million.**	1313.24 MINR
1.8	**Financial Resources (Form FIN-3) : As per clause 2.3.3 , section-3 (E&QC)** The bidder has to specify the proposed source of financing The cash flow requirment is ***INR 41.32 Million*** .	200 MINR AND Working Capital = 1070.29 MINR
1.9	**Liquid Assets** :- As per Section 4 (Bidding Form) The bidder shall have Liqid Assets and/or evedence of Access to or avalability of credit facility of not less than **INR 51.65 Million** or equivalent.	564 MINR
2	**Experience (As per Clause No. 2.4 of Section-3 (E&Q)**	
2.1	**General experience (Form EXP-1):** Experience under contracts in the role of contractor, subcontractor, or management contractor for at least the last five (5) years prior to the Bid submission deadline.	Submitted (Of Chung-Hsin which is a Technical Collaborator of Kanohar)
2.2	**Specific Experience** (a) Contracts of Similar Size and Nature Participation in at least: Participation in at least: One contract of value 247.92 MINR or equivalent USD each, Or Two contracts of value 154.95 MINR or equivalent USD each, Or Three contracts of value 123.96 MINR or equivalent USD each, That have been successfully or substantially completed within the last Seven (7) years and that are similar to the proposed contract. The similarity of the Bidder's participation shall be based on the physical size, nature of works complexity, methods, technology or other characteristics as described in Section-1 (Technical Specification, Vol-II)	ChangLin EHV Substation 345kV GIS comprising 13 Bays amounting 33294629.58 US$ completed by Chung-Hsin Electric & Machinery Mfg.Corp. M/s Kanohar has a Technical Collaboration with Chung-Hsin Electric & Machinery Mfg. Corp.
2.3	**EXPERIENCE FOR GIS MANUFACTURER(S): Clause No.2.4 , sub-clause No.1.1.1 of section-3 (E&QC) the bidder should satisfy on of the following**	
	i) Experience in manufacturing and supplying of 220 kV or higher Voltage Class, GIS Circuit Breaker Bays for at least last five (5) years as on Date of Bid Opening, **AND** ii) Has designed, manufactured, Supplied for erecting, tested as per IEC or Equivalent standard and commissioned not less than one (1) GIS Sub Stations/Switching Stations having at least 3 numbers, 220 kV or higher Voltage GIS Circuit Breaker Bays and the same should be in successful operation for at least one (1) year as on the Date of Bid Opening. For this purpose, only such experience shall be considered for which the Performance Certificate has been issued by the Principal Employer.	Sale Record of Chung Hsin Submitted & ChangLin EHV Substation 345kV GIS comprising 13 Bays amounting 33294629.58 US$ completed by Chung-Hsin Electric & Machinery Mfg.Corp. M/s Kanohar has a Technical Collaboration with Chung-Hsin Electric & Machinery Mfg. Corp.

Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Vivek Dhiman
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

29.9.20

2.4	**EXPERIENCE FOR Turnkey Contractor : Clause No.2.4 ,Sub-Clause No.1.1.2 of section-3 (E&QC) the bidder should satisfy one of the following**	
	The Turnkey Contractor for GIS Substation/Switching Station should have successfully System engineered, procured Main and BOP equipment, constructed, erected, tested and commissioned during last five (5) years not less than one (1) numbers 220 KV or Above voltage level GIS Sub Stations/Switching Station having at least 3 numbers, 220 kV or higher Voltage GIS Circuit Breaker Bays and the same should be in successful operation for one (1) year as on the Date of Bid Opening. For this purpose, only such experience shall be considered for which the Performance Certificate has been issued by the Principal Employer. For the purpose of Qualifying Requirement, one number of Circuit Breaker Bay shall be considered as a Bay used for controlling a Line or a Transformer or a Reactor or a Bus Section or a Bus Coupler and comprising of at least one Circuit Breaker, two Disconnectors and three numbers of single phase Current Transformers / Bushing Current Transformers.	ChangLin EHV Substation 345kV GIS comprising 13 Bays amounting 33294629.58 US$ completed by Chung-Hsin Electric & Machinery Mfg.Corp. M/s Kanohar has a Technical Collaboration with Chung-Hsin Electric & Machinery Mfg. Corp
2.5	**TECHNICAL EXPERIENCE OF JV (Clause No. 1.1 (d) , Section-3 (E&QC)**	
	a) All the partners of JV shall meet collectively the requirement of clause mentioned above 2.3 (i) & (ii) & 2.4.	NA
	b) Atleast one of the partner of JV shall meet collectively the requirement of clause mentioned above 2.3.(i) &(ii)	NA
	c) Atleast one of the partner of JV shall meet 50% the requirement and other partner(s) shall individually meet at least 25% of the requirement of clause mentioned above 2.4	NA
3	**Personnel:** As per Clause No. 2.5, Section-3 (E&Q) the Bidder must demonstrate that it has the personnel for the key positions that meet requirement as mentioned under this clause. The Bidder shall provide details of the proposed personnel and their experience records in the relevant information forms included in Section-4	Submitted
4	**Equipment :** As per clause No.2.6 section-3 (E&QC) the bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in section -3 (E&Q)	Submitted
5	**Proposed Detail of Sub-Contractors/Manufacturers for Major Items :** As per clause No.2.7 section-3 (E&QC) the bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in section -3 (E&Q)	Submitted
6	**KfW Eligibility :-** As per Clause No. 2.1.3 , Section-3 (E&QC) the bidder should not be declared ineligible by KfW as described in ITB sub-Clause 4.4 .	Submitted
7	**Power of Attorney:** As per Clause No. ITB 22.2, Section 2 the bidder has to submit the written confirmation of authorisation to sign on behalf of the bidder shall consist of a Power of Attorney, which should either be notarised or attested to by the appropriate authority in the bidder's home country.	Submitted
8	**Manufacturing Authorization Form :-** As per Section-4 (Bidding Form)	Submitted
9	**Attachment-1** (Detail in respect of Indian agent) : As per Section-4 (Bidding Form)	NA
10	**Attachment -2** (Declaration regarding deemed Export Benefit) :	NA
11	**Attachment -4 (Guarantee Declaration) : As per Section-4 (Bidding Form)**	Submitted
12	**JV information:** As per Section-4 (Bidding Form No. ELI-2)	NA
13	**Type test charges**. - As per Clause No. 1.2.6, Section-3 (E&QC) and amended as: - The type test charges in respect of GIS and Power/Auto Transformer shall not be considered for financial bid evaluation. Howerver the bidder is required to quote the type test charges in SCH.-7 separately.	Submitted
14	**Commercial Terms and Conditions (Confirmed the acceptance of entire Commercial Terms & conditions of the Bidding documents in TOTO.)**	Accepted
	Responsiveness	**Responsive**

Er. Sunil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Vivek Dhiman
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

29.91

APPENDIX-6		
TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor S/Stn		
COMPLIANCE REGARDING JV BIDDERS QUALIFICATION		
Bidder Name		M/s Kanohar Electricals Limited in Collaboration with M/s Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan)
Sr.No.	Description /Requirments as per Bidding Document	Description*
1	JV Partner,s Legal Name	Not Applicable
2	Name of the Prime bidder (Lead Partner)	Not Applicable
3	UNDERTAKING required to be submitted as per schedule -4 , Bidding form of the bidding documents (Form of undertaking by JV Partners)	Not Applicable
4	Belongs to KfW Member Country	Not Applicable
5	TECHNICAL EXPERIENCE : As per clause No. 2.4 , sub clause No. 1.1 (Technical Experience) of Sction-3 (E&QC)	Not Applicable
d)	A JV (*Joint Venture, Consortium, or Association as per Clause No. ITB 4.1*) consisting of two or more Partners including the Lead Partner meeting the following conditions: -	Not Applicable
i)	All the Partners of JV shall meet collectively the requirements of Clause 1.1.1 and 1.1.2 below. AND	Not Applicable
ii)	Atleast one of the Partners of the JV shall meet the requirements as mentioned in Clause No.: 1.1.1 below.	Not Applicable
iii)	Atleast one of the Partners of the JV shall meet 50 % of the requirements and other partner(s) shall individually meet at least 25% of the requirement as mentioned in Clause No.: 1.1.2 below.	Not Applicable
	CLAUSE NO.1.1.1 : EXPERIENCE OF GIS MANUFACTURER	
i)	i) Has experience in manufacturing and supplying of 220 kV or higher Voltage Class, GIS Circuit Breaker Bays for at least last five (5) years as on Date of Bid Opening;	Not Applicable
ii)	ii) Has designed, manufactured, Supplied for erecting, tested as per IEC or Equivalent standard and commissioned not less than two (2) GIS Sub Stations/Switching Stations having cumulatively at least 3 numbers, 220 kV or higher Voltage GIS Circuit Breaker Bays and the same should be in successful operation for at least one (1) year as on the Date of Bid Opening. For this purpose, only such experience shall be considered for which the Performance Certificate has been issued by the Principal Employer.	Not Applicable
	CLAUSE NO.1.1.2 : EXPERIENCE FOR Turnkey Contractor :	
	The Turnkey Contractor for Erection, Testing, and Commissioning of GIS should be: -	Not Applicable
	The Turnkey Contractor for GIS Substation/Switching Station should have successfully System engineered, procured Main and BOP equipment, constructed, erected, tested and commissioned during last five (5) years not less than two (2) numbers 220 KV or Above voltage level GIS Sub Stations/Switching Station having cumulatively at least 3 numbers, 220 kV or higher Voltage GIS Circuit Breaker Bays and the same should be in successful operation for one (1) year as on the Date of Bid Opening. For this purpose, only such experience shall be considered for which the Performance Certificate has been issued by the Principal Employer. For the purpose of Qualifying Requirement, one number of Circuit Breaker Bay shall be considered as a Bay used for controlling a Line or a Transformer or a Reactor or a Bus Section or a Bus Coupler and comprising of at least one Circuit Breaker, two Disconnectors and three numbers of single phase Current Transformers / Bushing Current Transformers.	Not Applicable
6	Financial Situtions : As per clause No 2.3 of section -3 (E&QC)	Not Applicable
i)	Historical Financial Performance	Not Applicable
ii)	Average Annual Turn Over : overall 413.2 MNIR ; 40 % of 413.2 MINR for One Partner ; 25% for each Partner	Not Applicable
iii)	Financial Resources : overall cash Flow 41.32 MNIR ; 40 % of 41.32 MINR for One Partner ; 25% for each Partner	Not Applicable
	Findings	Responsive

Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Vivek Dhiman
Sr. Manager (Contract)
HPPTCL, Shimla-5

Er. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

29.12

APPENDIX – 7

TABLE 5:

SALIENT FEATURES OF BIDS

(TECHNICAL REQUIREMENTS)

Sr. No.	REQUIREMENTS	BIDDER
		M/s Kanohar Electricals Limited, In Collaboration with M/s Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan), Rithani, Delhi Road, Meerut, UP.
A	220 KV GIS EQUIPEMNT	
1.	**TRANSFORMER BAY MODULE:** 245 kV, 2000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds & Accessories complete in all respects.	Complied
2.	**AUXILIARY BUS BAY MODULE:** 245 kV, Single Phase, 2000 A, 50 kA for 3.0 seconds & Accessories, complete in all respects.	Complied
3	**EXTENSION OF EXISTING BUS BARS MODULE:** 245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds& Accessories complete in all respects.	Complied
4	**GUARANTEED MAXIMUM GAS LOSS:** The Maximum Gas Leakage shall not exceed 0.1 % (point one percent) per year for the Whole Equipment and for any Individual Gas Compartment separately: Section – 3A, Sr, No. (h).	Complied
B	33 KV GIS EQUIPEMNT	
1.	**TRANSFORMER BAY MODULE:** 36 kV, 2500 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds & Accessories complete in all respects	Complied
2.	**TRANSMISSION LINE FEEDER BAY MODULE:** 36 kV, 630 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds & Accessories complete in all respects.	Complied
3.	**BUS BARS MODULE:** 36 kV, 3150 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds & Accessories complete in all respects.	Complied
4.	**BUS COUPLER BAY MODULE:** 36 kV, 3150 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds & Accessories complete in all respects.	Complied

Er. Sahil Thapa
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Vivek Dhiman
Sr. Manager
HPPTCL, Shimla-5

Er. K.N. Sharma
SE (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

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5	**STATION TRANSFORMER BAY MODULE:** 36 kV, 630 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds & Accessories complete in all respects.	Complied
6	**AUXILIARY BUS BAY MODULE:** Single Phase, 2500 A, 31.5 kA for 3.0 seconds, Auxiliary Bus Bar & Accessories complete in all respects.	Complied
7	**GUARANTEED MAXIMUM GAS LOSS:** The Maximum Gas Leakage shall not exceed 0.1 % (point one percent) per year for the Whole Equipment and for any Individual Gas Compartment separately: Section – 3A, Sr, No. (h).	Complied
C		
1	Current density at the lowest tap should not exceed 2.5 Amperes / sq. mm in all windings	Complied
2	Working flux density shall not exceed 1.7 Tesla at normal Voltage, Frequency and ratio.	Complied
3	Temperature rise over maximum ambient temperature of 45 degree centigrade	Complied
4	Winding (Temperature rise measured by resistance Method)	Complied
5	Top Oil (Temperature rise measured by thermometer)	Complied
6	Oil conforming to IEC 60296	Complied
7	Whether Type Tested or not.	YES
8	Whether Short Circuit tested or not.	Short Circuit Tests will be conducted without any financial implications to HPPTCL.
	CONCLUSION	**Responsive**

Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Vivek Dhiman
Sr. Manager (Contract)
HPPTCL, Shimla-5

DGM & Head Trans. Designs,
HPPTCL, Anu, Hamirpur (HP)

Er. K.K. Sharma
DGM (Contract)
HPPTCL, Shimla-5

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General Manager (C&D)
HPPTCL, Shimla-5

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Schedule- G Loss

TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor S/Stn

GUARANTEES LOSS OF TRANSFORMERS

Name of firm							M/s Kanohar Electricals Limited in Collaboration with M/s Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan)	
SR. NO.	EQUIPMENT	PARAMETER TO BE TAKEN FOR LEVY OF LIQUDATED DAMAGES FOR FAILURE TO ATTAIN THE GUARANTEES	Currency	RATE OF LIQUIDATED DAMAGES	UNIT	QTY	Unit Quoted Loss (in KW)	Total Loss (5*7*8)
1	2	3	4	5	6	7	8	9
1	26 66/33.33 MVA,11/33/220 kV, ONAN / ONAF, Single-phase Power Transformer	Load/ Copper Loss (kW)	INR	206,724	Nos	4	81.00	66,978,576.00
		Iron Loss (kW)	INR	506,676	Nos	4	20 30	41,142,091.20
		Auxiliary Loss (kW)	INR	202,670	Nos	4	1 50	1,216,020.00
2	250 kVA, 33/0.4 kV, 3-Phase Station Auxiliary Transformer	Load/ Copper Loss (kW)	INR	206,724	Nos	1	8 50	1,757,154.00
		Iron Loss (kW)	INR	506,676	Nos	1	1 40	709,346.40
		Auxiliary Loss (kW)	INR	202,670	Nos	1	0 00	0.00
	TOTAL (In INR)							**111,803,187.60**

Er. Sahil Verma
Dy. Manager (Contracts)
HPPTCL, Shimla-5

Er. Vivek Dhiman
Sr. Manager (Contract)
HPPTCL, Shimla-5

Hr. K.N. Sharma
DGM (Contract)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

26.9.25

APPENDIX-8

AECOM

AECOM Asia Company Ltd
C-3, Main Road, Sector-II, New
Shimla, Shimla (H P)
India

Our Ref: AECOM/Power/HPPTCL/Shimla/2019 - 450 **Dated:04-01-2019**

To,

The Deputy General Manager (Contract)
HPPTCL,Himfed Bhawan, Panjari,
Shimla-171005.

Subject:- Regarding comments/Consent on Technical Evaluation of 33/220 kV GIS Additional Charor Substation.

Sir,

We have studied and reviewed the bid evaluation report in respect of aforesaid tender package wherein one bidder M/s Kanohar Electrical Ltd, participated and assessed with reference to techno- commercial guidelines of eligibility criteria as mentioned in tender specifications.

S.N.	No. of Bidder	HPPTCL Status	AECOM Status
1	M/s Kanohar Electrical Ltd, UP India	Responsive	Responsive

Submitting for your information and further action please.

Assuring you of our best services and attention all the time

Yours faithfully

Tear Leader
AECOM Asia Company Ltd.
GEC Project, Shimla.

Copy forwarded for information and necessary action to the following:-

1) Deputy Manager (Contracts),HPPTCL, Himfed Bhawan ,Panjari, Shimla-05.
2) Senior Manager (Contracts),Cum Nodal Officer HPPTCL, Himfed Bhawan ,Panjari, Shimla-05.

General Manager (C&D)
HPPTCL, Shimla-5

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ANNEXURE-3A

H.P. POWER TRANSMISSION CORPORATION LIMITED

(A State Government Undertaking)

Himfed Bhawan, Panjari, Shimla-5

Ph:-0177-22633272, FAX:-0177-2831284 Web:www.hpptcl.com

No. HPPTCL/ADB/GIS Substation Charor/2018 – 6572 Dated: 27/08/18

To

M/S Kanohar Electricals Limited,

Rithani, Delhi Road, Meerut-250103

U.P. (India)

Subject: Submission of Revised L-2 Schedule in respect of 27-SS/AB/HPPTCL/GIS Substation at Charor

Ref: Your letter No. HPPTCL/2018/1808/01, Dated-18/08/2018

Dear Sir,

With reference to above letter no. you have submitted the revised L-2 Schedule for 27-SS/AB/HPPTCL/GIS Substation at Charor for approval. As per the meeting held on 27/08/2018 with DGM contracts , regarding discussion on L-2 Schedule in the presence of your project coordinator Er. Gaurav Sharma it was observed that the L-2 Schedule submitted by you is toprecise and only talks about the Major events that require further elaboration.

Therefore, you are requested to revise the L-2 Schedule as per discussions held with your project coordinator Er. Gaurav Sharma and resubmit it for the necessary approval.

Yours Sincerely

K.N. Sharma

Deputy Manager (Contracts)

General Manager (C&D)
HPPTCL, Shimla-5

(129)

3A.1

KANOHAR ELECTRICALS LIMITED
RITHANI, DELHI ROAD, MEERUT - 250 103, U.P. (INDIA)
Ph. : +91-121-2441706-09
Fax : +91-121-2441704-05
E-mail : sales@kanohar.com, info@kanohar.com
Web : www.kanohar.com

KANOHAR

HPPTCL/2018/1808/01

August 18, 2018

The Deputy General Manager(Contracts)
HP Power Transmission Corporation Limited (HPPTCL)
Himfed Bhawan, Panjari (Near ISBT Road),
Shimla
Himachal Pradesh - 171005

Subj: Submission of Revised L2 Schedule for approval.

Proj: "Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Loading/Unloading, Storage, Erection, Testing, and Commissioning of 132/220 KV GIS Sub Station having 132 KV & 220 KV GIS Equipments, 3x25.56/34.08/42.6 MVA, Single Phase Auto Transformers and other Substation Equipments and Associated Civil Works at Charor in Kullu District of Himachal Pradesh on Turnkey Basis".

Ref: 1) NOA No.: HPPTCL/ADB/GIS Substation Charor/2017-18/19991-99 dated 19-03-2018
2) Our Letter No.:HPPTCL/2018/1205/01 dated 12-05-2018
3) Your Letter No.: HPPTCL/ADB/GIS Substation Charor/2018-2018 dated 17-05-2018

Dear Sir,

With reference to above, please note that as per Cl.. 1.0 of Appendix -4 ,Completion Period is 24 months from effective date. The site clear of trees etc. is still to be handed over to us. As such completion period will go beyond August 2020.

However we shall make best efforts to expedite the same as much as possible. Please find enclosed herewith revised L2 Schedule considering completion upto April 2020 on best efforts basis.

It is requested to kindly approve the same at the earliest.

Thanking you,
Yours faithfully,

(Neeraj Mittal)
Sr. Div. Mktg. Manager
Encl: As above

KANOHAR ELECTRICALS LTD. MEERUT * KANOHAR *

O/o the Managing Director ★ HPPTCL, Panjari ★ Dy. No. 3525 Dtd 21/08/18

21/8

SMTII

REGIONAL OFFICES
Mumbai : 305, Loha Bhawan, P. D'Mello Road, Mumbai-400009
Delhi (NCR) : 602, Chokhani Square, Sector-18, Noida-201301
Kolkata : Unit No. 13, 7th Floor, AMP Baisakhi, Plot 112, AG Block, Sector-II, Salt Lake City, Kolkata-700091
Bangalore : S-211, IInd Floor, Swiss Complex, 33/41, Race Course Rd. Bangalore-560001
Chennai : 6, 1st Floor, Sun Plaza, G. N. Chetty Road, Chennai-600006

130

General Manager (C&D)
HPPTCL, Shimla-5

342

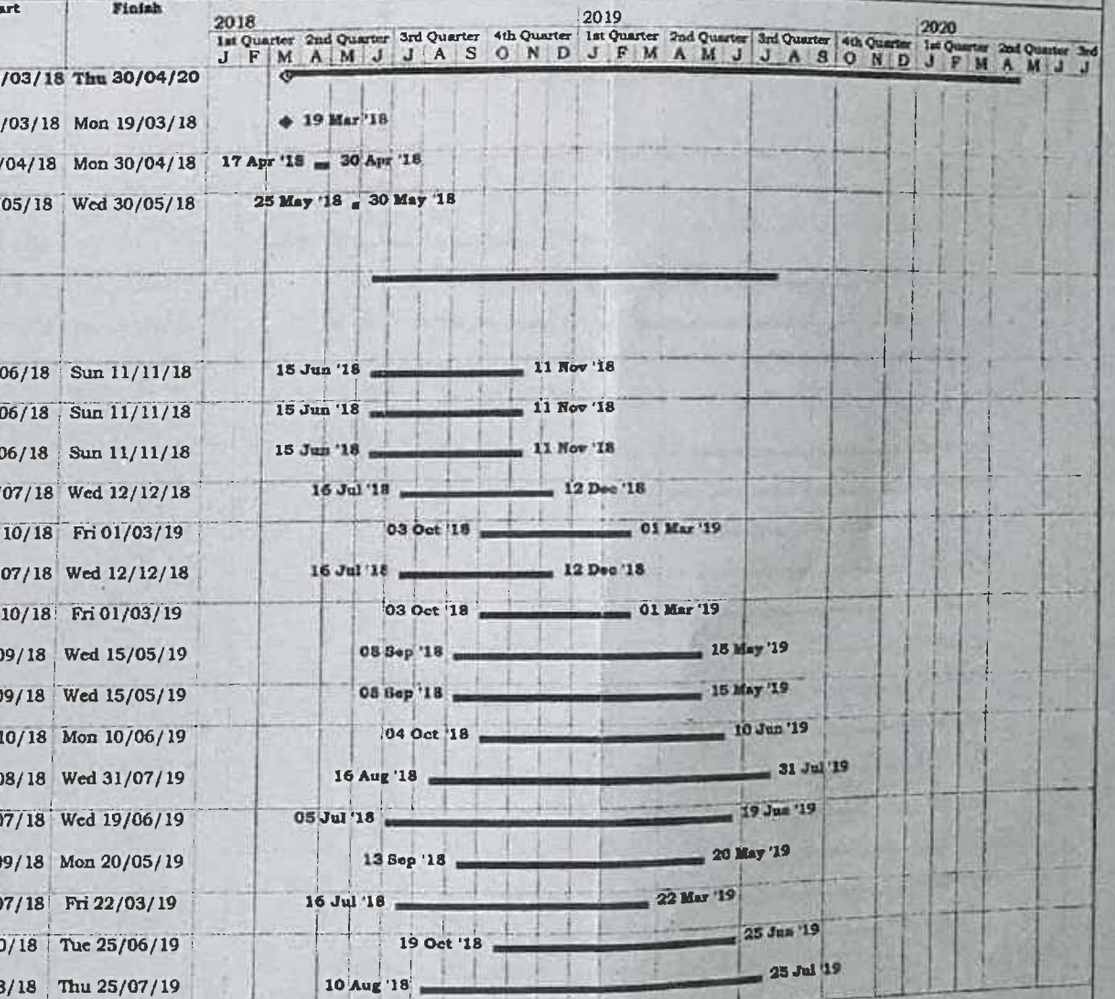
L2 SCHEDULE

NOA No. - HPPTCL/ADB/GIS Substation Charor/2017-18/19991-99 dated 19-03-2018

KANOHAR

220/132 kV GIS, CHAROOR SUBSTATION

ID	Task Name	Duration	Start	Finish
0	**220/132/33 kV GIS, CHAROOR SUBSTATION**		**Mon 19/03/18**	**Thu 30/04/20**
1	Key Date	0 days	Mon 19/03/18	Mon 19/03/18
2	Contract Signing Date	14 days	Tue 17/04/18	Mon 30/04/18
3	Handing Over of Clear Site & Receipt of Advance Payment (Effective Date)	6 days	Fri 25/05/18	Wed 30/05/18
4	**VENDOR FINALIZATION & DRAWINGS/GTP APPROVAL**			
5	25.56/34.08/42.60 MVA Transformer	150 days	Fri 15/06/18	Sun 11/11/18
6	250 kVA Station Transformer	150 days	Fri 15/06/18	Sun 11/11/18
7	220/132 kV GIS Building EOT	150 days	Fri 15/06/18	Sun 11/11/18
8	220 & 132 kV GIS	150 days	Mon 16/07/18	Wed 12/12/18
9	220 & 132 kV Outdoor Equipment	150 days	Wed 03/10/18	Fri 01/03/19
10	33kV Indoor Switchgear	150 days	Mon 16/07/18	Wed 12/12/18
11	33kV Outdoor Equipment	150 days	Wed 03/10/18	Fri 01/03/19
12	Control & Relay Panels and SAS	250 days	Sat 08/09/18	Wed 15/05/19
13	PLCC	250 days	Sat 08/09/18	Wed 15/05/19
14	LT Switchgear	250 days	Thu 04/10/18	Mon 10/06/19
15	Illumination System	350 days	Thu 16/08/18	Wed 31/07/19
16	Power and Control Cables	350 days	Thu 05/07/18	Wed 19/06/19
17	Structures	250 days	Thu 13/09/18	Mon 20/05/19
18	Earthing Material	250 days	Mon 16/07/18	Fri 22/03/19
19	Erection Hardware	250 days	Fri 19/10/18	Tue 25/06/19
20	Air Conditioning and Ventilation System	350 days	Fri 10/08/18	Thu 25/07/19



General Manager (C&D)
HPPTCL, Shimla-5

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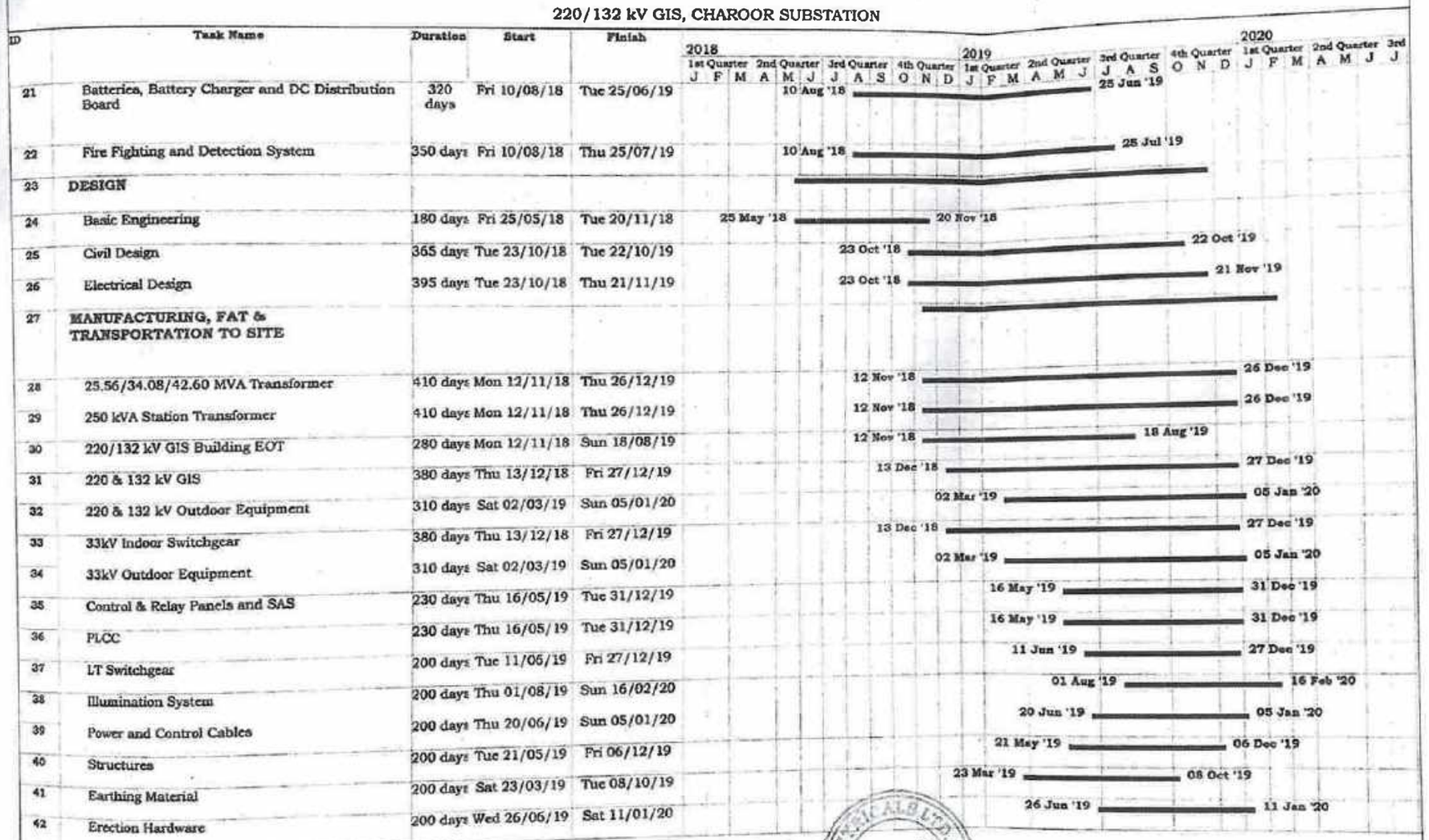
KANOHAR

L2 SCHEDULE

NOA No. - HPPTCL/ADB/GIS Substation Charor/2017-18/19991-99 dated 19-03-2018

220/132 kV GIS, CHAROOR SUBSTATION

ID	Task Name	Duration	Start	Finish
21	Batterics, Battery Charger and DC Distribution Board	320 days	Fri 10/08/18	Tue 25/06/19
22	Fire Fighting and Detection System	350 days	Fri 10/08/18	Thu 25/07/19
23	**DESIGN**			
24	Basic Engineering	180 days	Fri 25/05/18	Tue 20/11/18
25	Civil Design	365 days	Tue 23/10/18	Tue 22/10/19
26	Electrical Design	395 days	Tue 23/10/18	Thu 21/11/19
27	**MANUFACTURING, FAT & TRANSPORTATION TO SITE**			
28	25.56/34.08/42.60 MVA Transformer	410 days	Mon 12/11/18	Thu 26/12/19
29	250 kVA Station Transformer	410 days	Mon 12/11/18	Thu 26/12/19
30	220/132 kV GIS Building EOT	280 days	Mon 12/11/18	Sun 18/08/19
31	220 & 132 kV GIS	380 days	Thu 13/12/18	Fri 27/12/19
32	220 & 132 kV Outdoor Equipment	310 days	Sat 02/03/19	Sun 05/01/20
33	33kV Indoor Switchgear	380 days	Thu 13/12/18	Fri 27/12/19
34	33kV Outdoor Equipment	310 days	Sat 02/03/19	Sun 05/01/20
35	Control & Relay Panels and SAS	230 days	Thu 16/05/19	Tue 31/12/19
36	PLCC	230 days	Thu 16/05/19	Tue 31/12/19
37	LT Switchgear	200 days	Tue 11/06/19	Fri 27/12/19
38	Illumination System	200 days	Thu 01/08/19	Sun 16/02/20
39	Power and Control Cables	200 days	Thu 20/06/19	Sun 05/01/20
40	Structures	200 days	Tue 21/05/19	Fri 06/12/19
41	Earthing Material	200 days	Sat 23/03/19	Tue 08/10/19
42	Erection Hardware	200 days	Wed 26/06/19	Sat 11/01/20



General Manager (C&D)
HPPTCL, Shimla-5

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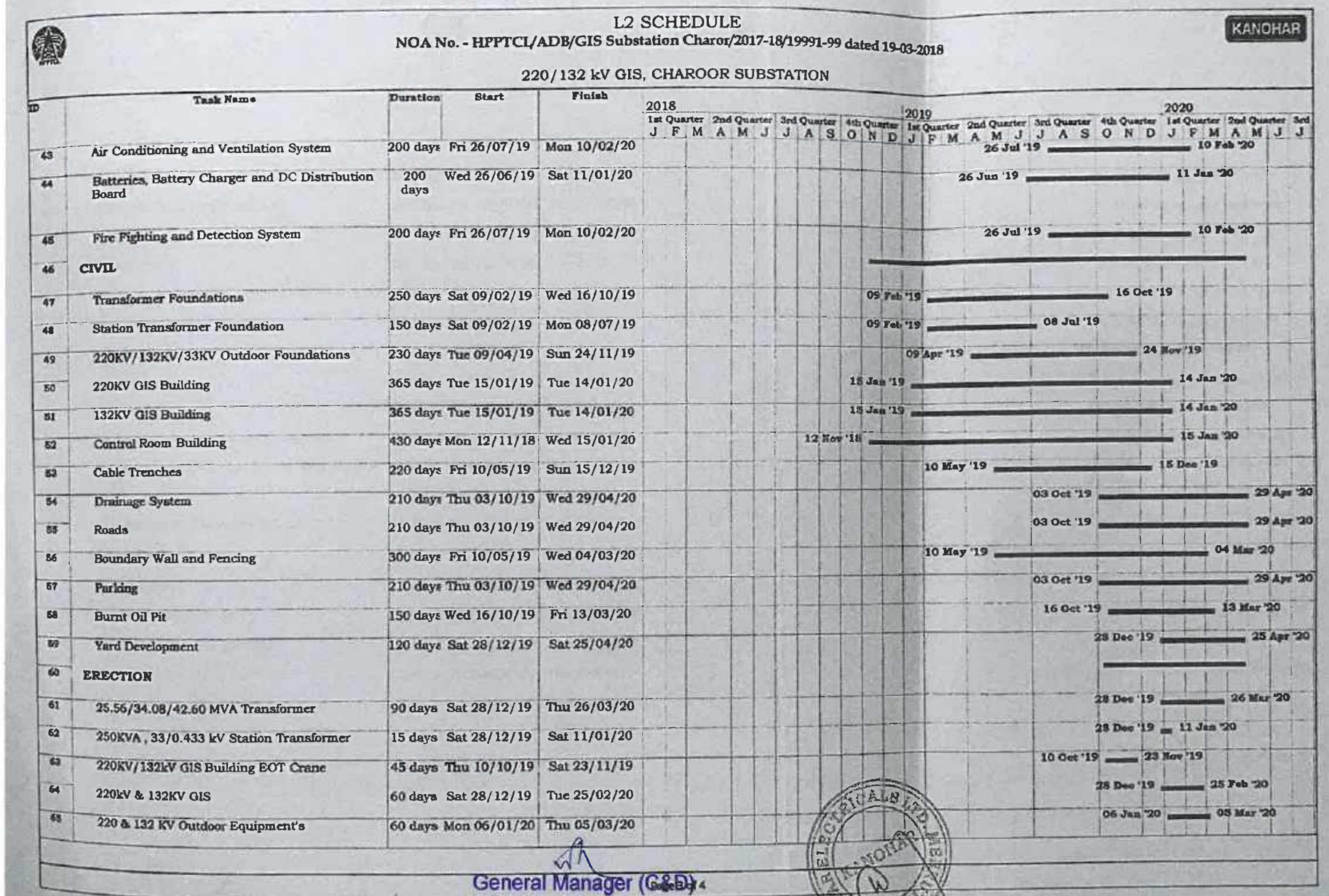
L2 SCHEDULE

NOA No. - HPPTCL/ADB/GIS Substation Charor/2017-18/19991-99 dated 19-03-2018

KANOHAR

220/132 kV GIS, CHAROOR SUBSTATION

ID	Task Name	Duration	Start	Finish
43	Air Conditioning and Ventilation System	200 days	Fri 26/07/19	Mon 10/02/20
44	Batterics, Battery Charger and DC Distribution Board	200 days	Wed 26/06/19	Sat 11/01/20
45	Fire Fighting and Detection System	200 days	Fri 26/07/19	Mon 10/02/20
46	**CIVIL**			
47	Transformer Foundations	250 days	Sat 09/02/19	Wed 16/10/19
48	Station Transformer Foundation	150 days	Sat 09/02/19	Mon 08/07/19
49	220KV/132KV/33KV Outdoor Foundations	230 days	Tue 09/04/19	Sun 24/11/19
50	220KV GIS Building	365 days	Tue 15/01/19	Tue 14/01/20
51	132KV GIS Building	365 days	Tue 15/01/19	Tue 14/01/20
52	Control Room Building	430 days	Mon 12/11/18	Wed 15/01/20
53	Cable Trenches	220 days	Fri 10/05/19	Sun 15/12/19
54	Drainage System	210 days	Thu 03/10/19	Wed 29/04/20
55	Roads	210 days	Thu 03/10/19	Wed 29/04/20
56	Boundary Wall and Fencing	300 days	Fri 10/05/19	Wed 04/03/20
57	Parking	210 days	Thu 03/10/19	Wed 29/04/20
58	Burnt Oil Pit	150 days	Wed 16/10/19	Fri 13/03/20
59	Yard Development	120 days	Sat 28/12/19	Sat 25/04/20
60	**ERECTION**			
61	25.56/34.08/42.60 MVA Transformer	90 days	Sat 28/12/19	Thu 26/03/20
62	250KVA , 33/0.433 kV Station Transformer	15 days	Sat 28/12/19	Sat 11/01/20
63	220KV/132kV GIS Building EOT Crane	45 days	Thu 10/10/19	Sat 23/11/19
64	220kV & 132KV GIS	60 days	Sat 28/12/19	Tue 25/02/20
65	220 & 132 KV Outdoor Equipment's	60 days	Mon 06/01/20	Thu 05/03/20



General Manager (C&D)
HPPTCL, Shimla-5

3A.5

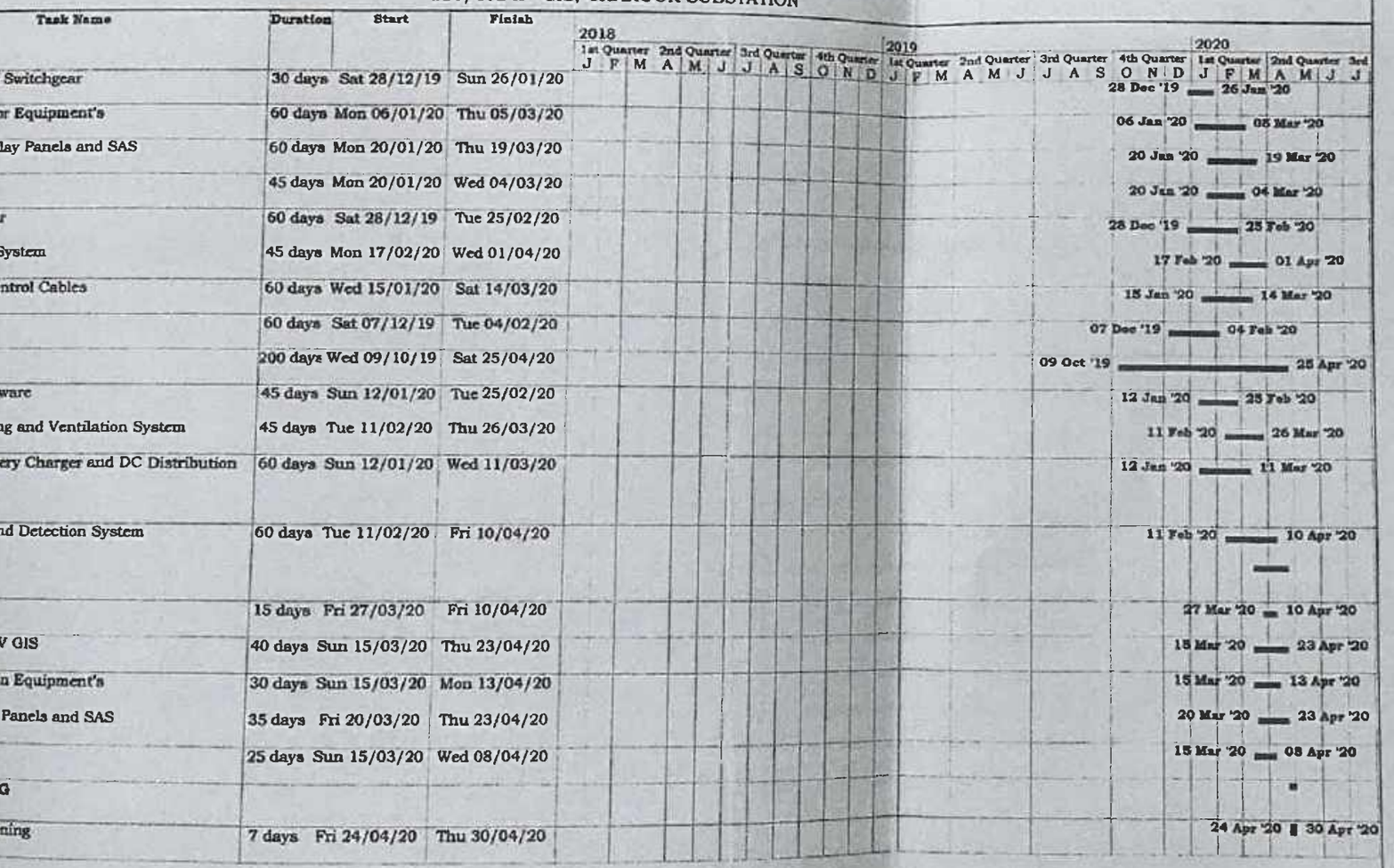
L2 SCHEDULE

NOA No. - HPPTCL/ADB/GIS Substation Charor/2017-18/19991-99 dated 19-03-2018

KANOHAR

220/132 kV GIS, CHAROOR SUBSTATION

ID	Task Name	Duration	Start	Finish
66	33kV Indoor Switchgear	30 days	Sat 28/12/19	Sun 26/01/20
67	33kV Outdoor Equipment's	60 days	Mon 06/01/20	Thu 05/03/20
68	Control & Relay Panels and SAS	60 days	Mon 20/01/20	Thu 19/03/20
69	PLCC	45 days	Mon 20/01/20	Wed 04/03/20
70	LT Switchgear	60 days	Sat 28/12/19	Tue 25/02/20
71	Illumination System	45 days	Mon 17/02/20	Wed 01/04/20
72	Power and Control Cables	60 days	Wed 15/01/20	Sat 14/03/20
73	Structures	60 days	Sat 07/12/19	Tue 04/02/20
74	Earthing	200 days	Wed 09/10/19	Sat 25/04/20
75	Erection Hardware	45 days	Sun 12/01/20	Tue 25/02/20
76	Air Conditioning and Ventilation System	45 days	Tue 11/02/20	Thu 26/03/20
77	Batteries, Battery Charger and DC Distribution Board	60 days	Sun 12/01/20	Wed 11/03/20
78	Fire Fighting and Detection System	60 days	Tue 11/02/20	Fri 10/04/20
79	**TESTING**			
80	Transformers	15 days	Fri 27/03/20	Fri 10/04/20
81	220KV & 132 KV GIS	40 days	Sun 15/03/20	Thu 23/04/20
82	Other Substation Equipment's	30 days	Sun 15/03/20	Mon 13/04/20
83	Control & Relay Panels and SAS	35 days	Fri 20/03/20	Thu 23/04/20
84	LV AC/DC	25 days	Sun 15/03/20	Wed 08/04/20
85	**COMMISSIONING**			
86	Final Commissioning	7 days	Fri 24/04/20	Thu 30/04/20



General Manager (C&D)
HPPTCL, Shimla-5

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H.P. POWER TRANSMISSION CORPORATION LIMITED

(A State Government Undertaking)

Himfed Bhawan, Panjari, Shimla-5

Ph:-0177-22633272, FAX:-0177-2831284 Web:www.hpptcl.com

ATTENDANCE SHEET FOR MEETING REGARDING L-2 SCHEDULE

The Following attended the meeting held on 27/08/2018:-

SN	Name	Designation	Signature
2	K N Sharma	HPPTCL Shimla	
3,	Ramesh Chand	Sr. Mgr. C. Rohru	
4	Faqumi Mohd	Sr Mgr Chamba	
5.	Basun Chaudhary	Dy. Manager	
6.	Gaurav Sharma	Project Co-ordinator (KEL)	
7.	Akhil Sinya	Dy. Manager PIU Rohru	
8.	Rahul Kapoor	Dy. Manager Contracts	
9	Saransh Gupta	Dy. Manager (Contracts)	
10	Vinod Kumar	Sr. Manager (Contracts)	
11	Aman Kaur	Sr Manager (C)	
12	Alanker C	Planning Manager	

General Manager (C&D)
HPPTCL, Shimla-5

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ACTUAL WORK ACTIVITY COMPLETION SCHEDULE NOA NO.-HPPTCL/ADB/GIS Substation Charor/2017-18/19991-99 Dated 19-03-2018 220/132/33 kV GIS SUBSTATION CHAROR			
S. No.	ACTIVITY	START DATE	FINISH DATE
1	Letter of Award	19-03-2018	19-03-2018
2	Contract Signing	17-04-2018	17-04-2018
	Supply of Material		
3	25,56/34.08/42.60 MVA Transformer with Accessories & NIFPES System	-	20-01-2020
4	220 kV GIS Equipments	27-11-2020	04-06-2022
5	132 kV GIS Equipments	-	17-02-2021
6	245 & 145 kV CVT	-	30-12-2019
7	220 & 132 kV Wave Trap	-	04-02-2020
8	198,120 & 30 kV Surge Arrestor	-	25-06-2020
9	33 kV NCT	-	13-02-2021
10	220,132 & 33 kV Tower & Equipment Structures	30-12-2019	25-08-2022
11	Relay & Protection Panels	-	25-08-2022
12	SAS System	-	25-08-2022
13	PLCC	-	30-05-2019
14	Air Conditioning & Ventilation System	-	25-08-2022
15	Fibre Optic Terminal Equipment	-	28-12-2020
16	LT Switchgear	-	04-06-2022
17	Battery Set	-	31-03-2021
18	Battery Charger	-	31-03-2021
19	Fire Detection & Extinguisher System	-	04-06-2022
20	Illumination System	-	04-06-2022
21	Power & Control Cables	-	25-08-2022
22	Earthmat & Associated Acessories	27-06-2019	31-03-2021
23	Conductor	-	18-12-2020
24	Disc Insulator	-	18-12-2020
25	Hardware, Clamps & Connectors	-	18-12-2020
26	EOT Crane	02-12-2020	13-02-2021
27	DG Set	-	13-02-2021
28	CIVIL Work		
29	Land Devlopment (Cutting)	26/4/19	22/10/2021
30	Construction of Control Room Building Building	26/2/2020	22/2/2022
31	Construction of 220 kV GIS Building Building	11-09-2019	22/2/2022
32	Construction of 132 kV GIS Building Building	11-09-2019	22/2/2022
33	Construction of Outdoor Equipments & Tower Foundations	11-09-2019	25/5/22
34	Construction of Transformer Foundation & Rail cum Road	27/6/2019	30/5/2022
	Erection of Material		
35	Erection of Earthmat	10-03-2021	27-02-2023
36	Erection of Lattice Structures	25-10-2022	18-03-2023
37	Erection of Outdoor Equipments	27-09-2021	25-11-2022

Sr. Manager (Project)
HPPTCL, PIU Sarahan
Shunlar Distt. Kullu (H.P.)

General Manager (C&D)
HPPTCL, Shimla-5

3.11.18

38	Erection of EOT Crane	21-09-2021	27-09-2021
39	Erection of 132 kV GIS Equipments	27-09-2021	26-12-2022
40	Erection of 245 kV GIS Equipments	27-09-2021	25-11-2022
41	Erection of Power Transformers	14-05-2021	10-07-2021
42	Erection of C&R Panels & SAS	10-07-2021	25-11-2022
43	Erection of LT Swirchboard	10-07-2021	10-07-2021
44	Erection of PLCC	12-12-2018	25-11-2022
45	Erection of Battery & Battery charger	10-07-2021	10-07-2022
46	Laying & Termination of Control & Power Cables	16-08-2021	25-11-2022
47	Erection of Air- Conditioners & Ventilation System	10-07-2021	25-11-2022
48	Erection of DG Set	25-09-2021	27-09-2021
49	Erection of Illumination System	10-07-2021	25-11-2022
50	TESTING	23-09-2022	06-03-2023
51	Final Commissioning	-	10-05-2023

AE(E)
HPPTCL

Sr. Manager (Project)
HPPTCI, PIU Sarabai
Bhuntar Distt. Kullu (H.P

General Manager (C&D)
HPPTCL, Shimla-5

3A-9

ANNEXURE-3B

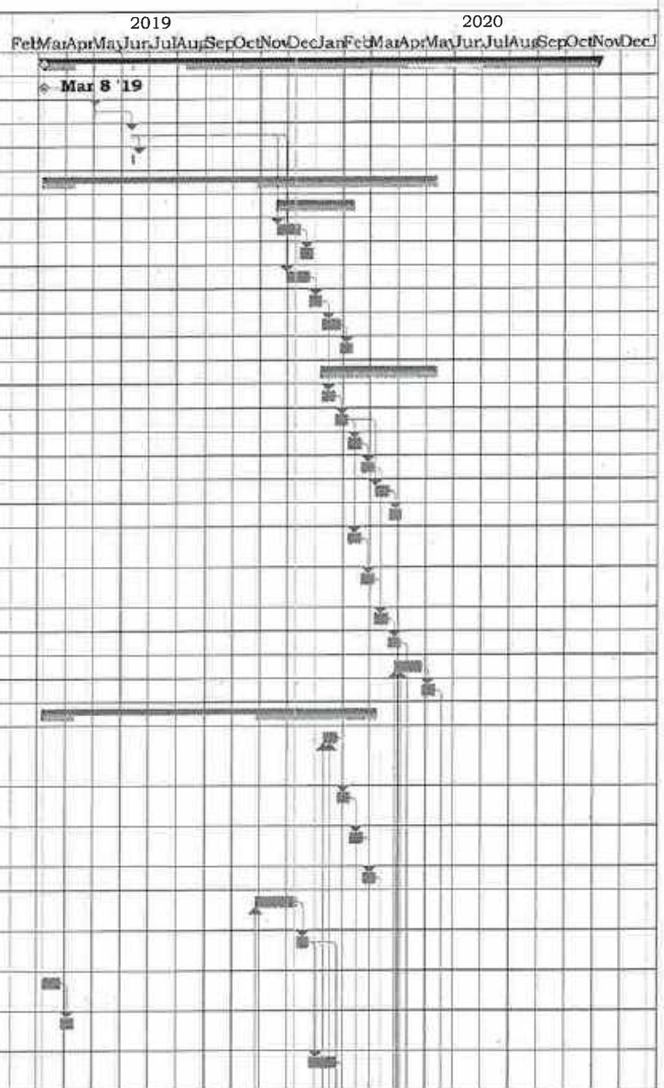
KANOHAR

L2 SCHEDULE

NOA NO.-HPPTCL/Contracts/KFW/33/220kV Add Charor S/stn/2018-19/15697-15704 Dated 08-03-2019

ADD CHAROOR SUBSTATION

ID	Task Name	Duration	Start	Finish	Predecessors
0	**33/220 kV GIS ADD. CHAROOR SUBSTATION**	**609 days**	**Fri 3/8/19**	**Thu 11/5/20**	
1	**Notification of Award**	0 days	Fri 3/8/19	Fri 3/8/19	
2	**Contract Signing**	1 day	Fri 5/3/19	Fri 5/3/19	1FS+56 days
3	**Effective Date**	1 day	Wed 6/12/19	Wed 6/12/19	2FS+39 days
4	**Site Mobilisation**	1 day	Thu 6/13/19	Thu 6/13/19	3
5	**DESIGN**	**431 days**	**Fri 3/8/19**	**Mon 5/11/20**	
6	**Basic Engineering**	**83 days**	**Wed 11/20/19**	**Mon 2/10/20**	
7	Submission of SLD	25 days	Wed 11/20/19	Sat 12/14/19	3FS+160 days
8	Approval of SLD	14 days	Sun 12/15/19	Sat 12/28/19	7
9	Submission of OGA	25 days	Sat 11/30/19	Tue 12/24/19	3FS+170 days
10	Approval of OGA	14 days	Wed 12/25/19	Tue 1/7/20	9
11	Submission of Site Grading Plan	20 days	Wed 1/8/20	Mon 1/27/20	10
12	Approval of Site Grading Plan	14 days	Tue 1/28/20	Mon 2/10/20	11
13	**Electrical Design**	**125 days**	**Wed 1/8/20**	**Mon 5/11/20**	
14	Submission of Layout Plan & Section	15 days	Wed 1/8/20	Wed 1/22/20	10
15	Approval of Layout Plan & Section	14 days	Thu 1/23/20	Wed 2/5/20	14
16	Submission of EKD Layout & Section	15 days	Thu 2/6/20	Thu 2/20/20	15
17	Approval of EKD Layout & Section	14 days	Fri 2/21/20	Thu 3/5/20	16
18	Submission of LT SLD	15 days	Sat 3/7/20	Sat 3/21/20	15FS+30 days
19	Approval of LT SLD	14 days	Sun 3/22/20	Sat 4/4/20	18
20	Submission of Earthmat Calculation & Layout and Equipment Earthing Details	15 days	Thu 2/6/20	Thu 2/20/20	15
21	Approval of Earthmat Calculation & Layout and Equipment Earthing Details	14 days	Fri 2/21/20	Thu 3/5/20	20
22	Submission of Outdoor Lighting Layout	15 days	Fri 3/6/20	Fri 3/20/20	17
23	Approval of Outdoor Lighting Layout	14 days	Sat 3/21/20	Fri 4/3/20	22
24	Submission of Power & Control Cable Schedule	30 days	Sat 3/28/20	Sun 4/26/20	87,40
25	Approval of Power & Control Cable Schedule	15 days	Mon 4/27/20	Mon 5/11/20	24
26	**Civil Design**	**366 days**	**Fri 3/8/19**	**Sat 3/7/20**	
27	Submission of Design & Fabrication Details of Equipment Support Structure along with Foundation Bolt	15 days	Fri 1/10/20	Fri 1/24/20	62FS+10 days,67,73
28	Approval of Design & Fabrication Details of Equipment Support Structure along with Foundation Bolt	14 days	Sat 1/25/20	Fri 2/7/20	27
29	Submission of Foundation Details for Equipments Support structure	15 days	Sat 2/8/20	Sat 2/22/20	28
30	Approval of Foundation Details for Equipments Suppor	14 days	Sun 2/23/20	Sat 3/7/20	29
31	Submission of Foundation Plan & RCC Details of Transformer & Fire Protection Wall	45 days	Mon 10/28/19	Wed 12/11/19	40FS+7 days,46FS+20 days
32	Approval of Foundation Plan & RCC Details of Transformer & Fire Protection Wall	14 days	Thu 12/12/19	Wed 12/25/19	31
33	Submission of Foundation Plan & RCC Details of Station Transformer	20 days	Fri 3/8/19	Wed 3/27/19	
34	Approval of Foundation Plan & RCC Details of Station Transformer	14 days	Thu 3/28/19	Wed 4/10/19	33
35	Submission of construction details of Storm Drainage System	30 days	Thu 12/26/19	Fri 1/24/20	32



L2 Schedule of Add Cha | Task | Milestone | Summary | Project Summary | Critical Task | Progress

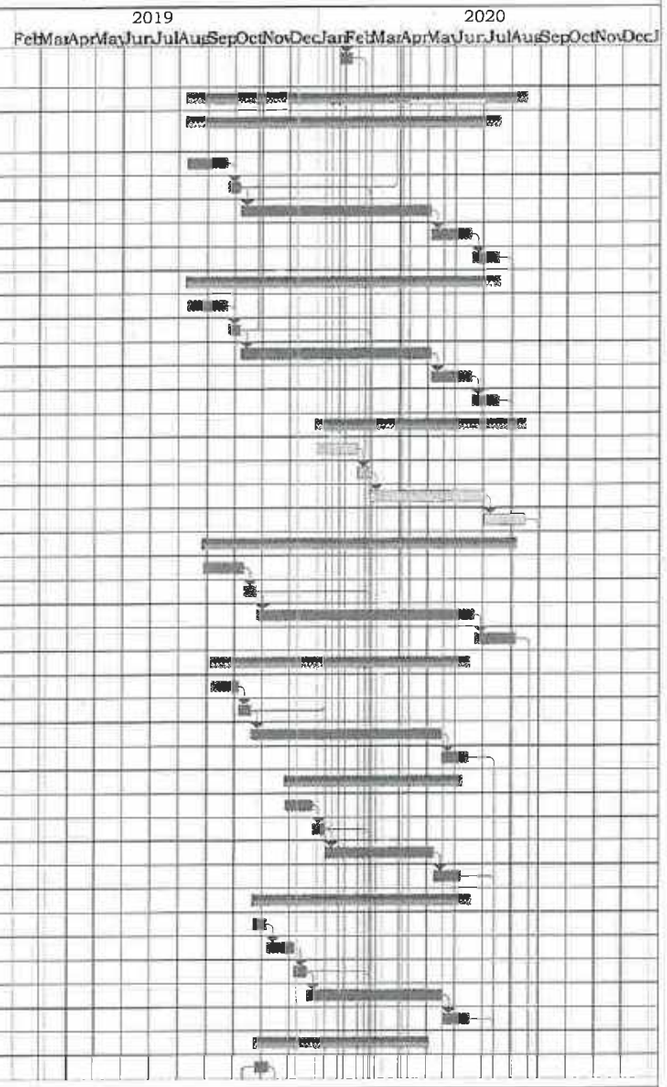
General Manager (C&D)
HPPTCL, Shimla-5

3.B.1

KANOHAR

ADD CHAROOR SUBSTATION

ID	Task Name	Duration	Start	Finish	Predecessors
36	Approval of construction details of Storm Drainage System	14 days	Sat 1/25/20	Fri 2/7/20	35
37	**PROCUREMENT**	**373 days**	**Sat 8/10/19**	**Sun 8/16/20**	
38	**26.66/33.33 MVA,11/33/220 kV Transformer with Accessories & NIFPES System**	**344 days**	**Sat 8/10/19**	**Sat 7/18/20**	
39	Submission of GTP, Drawings, Documents	45 days	Sat 8/10/19	Mon 9/23/19	
40	Approval of GTP, Drawings,Documents	14 days	Tue 9/24/19	Mon 10/7/19	39
41	Manufacturing	210 days	Tue 10/8/19	Mon 5/4/20	40
42	Final Inspection	45 days	Tue 5/5/20	Thu 6/18/20	41
43	Packing, Dispatch & Receipt at Site	30 days	Fri 6/19/20	Sat 7/18/20	42
44	**250 kVA, 33/0.4 kV, 3-Phase Station Transformer**	**344 days**	**Sat 8/10/19**	**Sat 7/18/20**	
45	Submission of GTP, Drawings,Documents	45 days	Sat 8/10/19	Mon 9/23/19	
46	Approval of GTP, Drawings,Documents	14 days	Tue 9/24/19	Mon 10/7/19	45
47	Manufacturing	210 days	Tue 10/8/19	Mon 5/4/20	46
48	Final Inspection	45 days	Tue 5/5/20	Thu 6/18/20	47
49	Packing, Dispatch & Receipt at Site	30 days	Fri 6/19/20	Sat 7/18/20	48
50	**220 kV GIS Equipments**	**229 days**	**Tue 12/31/19**	**Sat 8/15/20**	
51	Submission of GTP, Drawings,Documents	45 days	Tue 12/31/19	Thu 2/13/20	
52	Approval of GTP, Drawings,Documents	14 days	Fri 2/14/20	Thu 2/27/20	51
53	Manufacturing & Inspection	125 days	Fri 2/28/20	Wed 7/1/20	52
54	Packing, Dispatch & Receipt at Site	45 days	Thu 7/2/20	Sat 8/15/20	53
55	**33 kV GIS Equipments**	**344 days**	**Wed 8/28/19**	**Wed 8/5/20**	
56	Submission of GTP, Drawings,Documents	45 days	Wed 8/28/19	Fri 10/11/19	
57	Approval of GTP, Drawings,Documents	14 days	Sat 10/12/19	Fri 10/25/19	56
58	Manufacturing & Inspection	240 days	Sat 10/26/19	Sun 6/21/20	57
59	Packing, Dispatch & Receipt at Site	45 days	Mon 6/22/20	Wed 8/5/20	58
60	**220 & 33 kV LA**	**284 days**	**Fri 9/6/19**	**Mon 6/15/20**	
61	Submission of GTP, Drawings,Documents	30 days	Fri 9/6/19	Sat 10/5/19	
62	Approval of GTP, Drawings,Documents	14 days	Sun 10/6/19	Sat 10/19/19	61
63	Manufacturing & Inspection	210 days	Sun 10/20/19	Sat 5/16/20	62
64	Packing, Dispatch & Receipt at Site	30 days	Sun 5/17/20	Mon 6/15/20	63
65	**33 kV Isolator**	**194 days**	**Wed 11/27/19**	**Sun 6/7/20**	
66	Submission of GTP, Drawings,Documents	30 days	Wed 11/27/19	Thu 12/26/19	
67	Approval of GTP, Drawings,Documents	14 days	Fri 12/27/19	Thu 1/9/20	66
68	Manufacturing & Inspection	120 days	Fri 1/10/20	Fri 5/8/20	67
69	Packing, Dispatch & Receipt at Site	30 days	Sat 5/9/20	Sun 6/7/20	68
70	**33 kV PT**	**239 days**	**Wed 10/23/19**	**Wed 6/17/20**	
71	Vendor Finalization	15 days	Wed 10/23/19	Wed 11/6/19	
72	Submission of GTP, Drawings,Documents	30 days	Thu 11/7/19	Fri 12/6/19	71
73	Approval of GTP, Drawings,Documents	14 days	Sat 12/7/19	Fri 12/20/19	72
74	Manufacturing & Inspection	150 days	Sat 12/21/19	Mon 5/18/20	73
75	Packing, Dispatch & Receipt at Site	30 days	Tue 5/19/20	Wed 6/17/20	74
76	**Foundation Bolts**	**190 days**	**Fri 10/25/19**	**Fri 5/1/20**	
77	Vendor Finalization	15 days	Fri 10/25/19	Fri 11/8/19	



L2 Schedule of Add Cha | Task | Milestone | Summary | Project Summary | Critical Task | Progress

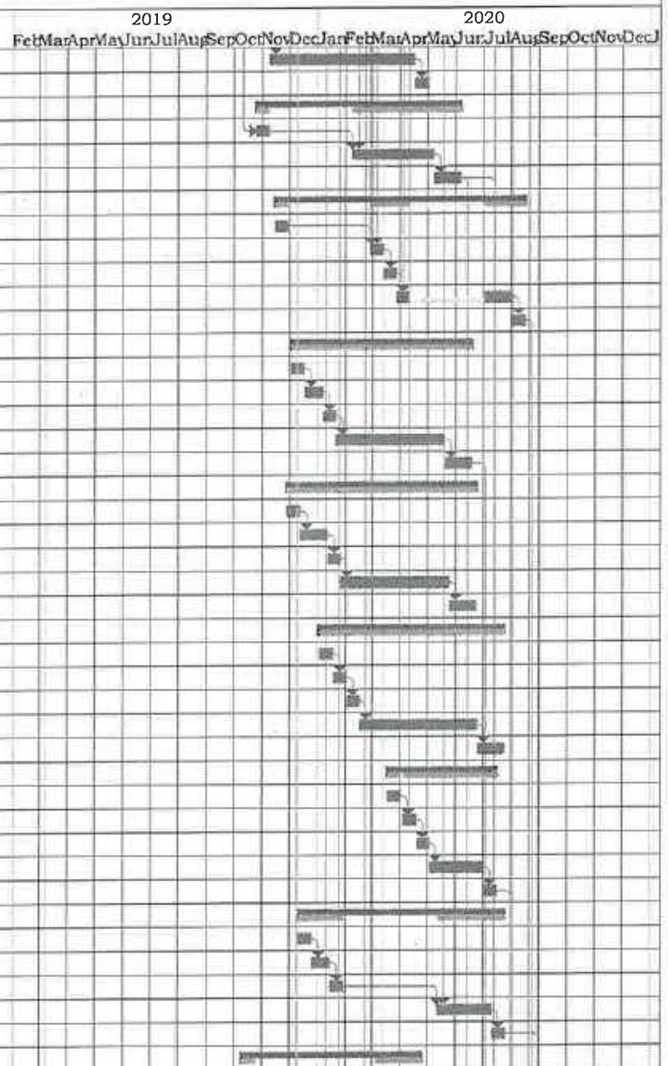
3B.2

General Manager (C&D)
HPPTCL, Shimla-5

KANOHAR

ADD CHAROOR SUBSTATION

ID	Task Name	Duration	Start	Finish	Predecessors
78	Manufacturing & Inspection	160 days	Sat 11/9/19	Thu 4/16/20	77
79	Packing, Dispatch & Receipt at Site	15 days	Fri 4/17/20	Fri 5/1/20	78
80	**220 & 33 kV Equipment Support Structure**	**226 days**	**Fri 10/25/19**	**Sat 6/6/20**	
81	Vendor Finalization	15 days	Fri 10/25/19	Fri 11/8/19	77SS
82	Manufacturing & Inspection	90 days	Sat 2/8/20	Thu 5/7/20	81,28
83	Packing, Dispatch & Receipt at Site	30 days	Fri 5/8/20	Sat 6/6/20	82
84	**Relay & Protection Panels**	**276 days**	**Fri 11/15/19**	**Sun 8/16/20**	
85	Vendor Finalization	15 days	Fri 11/15/19	Fri 11/29/19	
86	Submission of GTP, Drawings,Documents	15 days	Fri 2/28/20	Fri 3/13/20	40,52,57,67,73,85,46
87	Approval of GTP, Drawings,Documents	14 days	Sat 3/14/20	Fri 3/27/20	86
88	Manufacturing & Inspection	45 days	Sat 3/28/20	Sat 8/1/20	87
89	Packing, Dispatch & Receipt at Site	15 days	Sun 8/2/20	Sun 8/16/20	88
90	**Ventilation System**	**199 days**	**Tue 12/3/19**	**Thu 6/18/20**	
91	Vendor Finalization	15 days	Tue 12/3/19	Tue 12/17/19	
92	Submission of GTP, Drawings,Documents	20 days	Wed 12/18/19	Mon 1/6/20	91
93	Approval of GTP, Drawings,Documents	14 days	Tue 1/7/20	Mon 1/20/20	92
94	Manufacturing & Inspection	120 days	Tue 1/21/20	Tue 5/19/20	93
95	Packing, Dispatch & Receipt at Site	30 days	Wed 5/20/20	Thu 6/18/20	94
96	**LT Switchgear**	**209 days**	**Thu 11/28/19**	**Tue 6/23/20**	
97	Vendor Finalization	15 days	Thu 11/28/19	Thu 12/12/19	
98	Submission of GTP, Drawings,Documents	30 days	Fri 12/13/19	Sat 1/11/20	97
99	Approval of GTP, Drawings,Documents	14 days	Sun 1/12/20	Sat 1/25/20	98
100	Manufacturing & Inspection	120 days	Sun 1/26/20	Sun 5/24/20	99
101	Packing, Dispatch & Receipt at Site	30 days	Mon 5/25/20	Tue 6/23/20	100
102	**Fire Extinguisher System**	**204 days**	**Fri 1/3/20**	**Fri 7/24/20**	
103	Vendor Finalization	15 days	Fri 1/3/20	Fri 1/17/20	
104	Submission of GTP, Drawings,Documents	15 days	Sat 1/18/20	Sat 2/1/20	103
105	Approval of GTP, Drawings,Documents	14 days	Sun 2/2/20	Sat 2/15/20	104
106	Manufacturing & Inspection	130 days	Sun 2/16/20	Wed 6/24/20	105
107	Packing, Dispatch & Receipt at Site	30 days	Thu 6/25/20	Fri 7/24/20	106
108	**Illumination System**	**121 days**	**Wed 3/18/20**	**Thu 7/16/20**	
109	Vendor Finalization	15 days	Wed 3/18/20	Wed 4/1/20	
110	Submission of GTP, Drawings,Documents	15 days	Sat 4/4/20	Sat 4/18/20	23,109
111	Approval of GTP, Drawings,Documents	14 days	Sun 4/19/20	Sat 5/2/20	110
112	Manufacturing & Inspection	60 days	Sun 5/3/20	Wed 7/1/20	111
113	Packing, Dispatch & Receipt at Site	15 days	Thu 7/2/20	Thu 7/16/20	112
114	**Power & Control Cables**	**228 days**	**Wed 12/11/19**	**Sat 7/25/20**	
115	Vendor Finalization	15 days	Wed 12/11/19	Wed 12/25/19	
116	Submission of GTP, Drawings,Documents	20 days	Thu 12/26/19	Tue 1/14/20	115
117	Approval of GTP, Drawings,Documents	14 days	Wed 1/15/20	Tue 1/28/20	116
118	Manufacturing & Inspection	60 days	Tue 5/12/20	Fri 7/10/20	117,25
119	Packing, Dispatch & Receipt at Site	15 days	Sat 7/11/20	Sat 7/25/20	118
120	**Earthmat & Associated Acessories**	**198 days**	**Thu 10/10/19**	**Fri 4/24/20**	



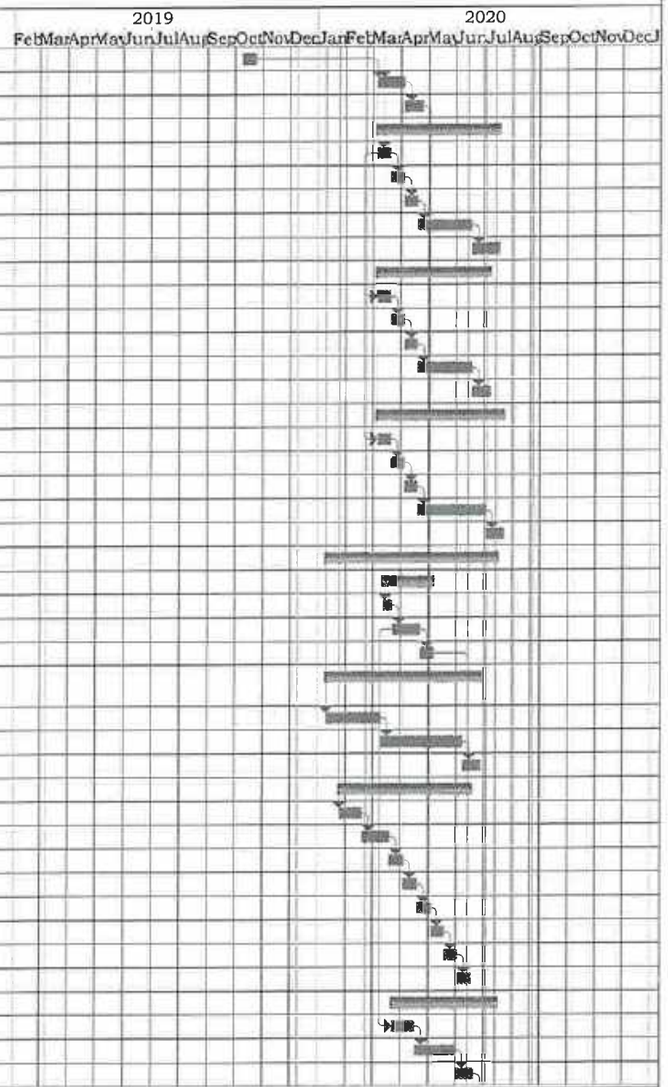
L2 Schedule of Add Cha | Task | Milestone | Summary | Project Summary | Critical Task | Progress

3B-3

General Manager (C&D)
HPPTCL, Shimla-5

ADD CHAROOR SUBSTATION

ID	Task Name	Duration	Start	Finish	Predecessors
121	Vendor Finalization	15 days	Thu 10/10/19	Thu 10/24/19	
122	Manufacturing & Inspection	30 days	Fri 3/6/20	Sat 4/4/20	21,121
123	Packing, Dispatch & Receipt at Site	20 days	Sun 4/5/20	Fri 4/24/20	122
124	**Conductor**	**134 days**	**Fri 3/6/20**	**Fri 7/17/20**	
125	Vendor Finalization	15 days	Fri 3/6/20	Fri 3/20/20	17
126	Submission of GTP, Drawings,Documents	15 days	Sat 3/21/20	Sat 4/4/20	125
127	Approval of GTP, Drawings,Documents	14 days	Sun 4/5/20	Sat 4/18/20	126
128	Manufacturing & Inspection	60 days	Sun 4/19/20	Wed 6/17/20	127
129	Packing, Dispatch & Receipt at Site	30 days	Thu 6/18/20	Fri 7/17/20	128
130	**Clamps & Connectors**	**124 days**	**Fri 3/6/20**	**Tue 7/7/20**	
131	Vendor Finalization	15 days	Fri 3/6/20	Fri 3/20/20	125SS
132	Submission of GTP, Drawings,Documents	15 days	Sat 3/21/20	Sat 4/4/20	131
133	Approval of GTP, Drawings,Documents	14 days	Sun 4/5/20	Sat 4/18/20	132
134	Manufacturing & Inspection	60 days	Sun 4/19/20	Wed 6/17/20	133
135	Packing, Dispatch & Receipt at Site	20 days	Thu 6/18/20	Tue 7/7/20	134
136	**BPI**	**139 days**	**Fri 3/6/20**	**Wed 7/22/20**	
137	Vendor Finalization	15 days	Fri 3/6/20	Fri 3/20/20	125SS
138	Submission of GTP, Drawings,Documents	15 days	Sat 3/21/20	Sat 4/4/20	137
139	Approval of GTP, Drawings,Documents	14 days	Sun 4/5/20	Sat 4/18/20	138
140	Manufacturing & Inspection	75 days	Sun 4/19/20	Thu 7/2/20	139
141	Packing, Dispatch & Receipt at Site	20 days	Fri 7/3/20	Wed 7/22/20	140
142	**CIVIL**	**188 days**	**Fri 1/10/20**	**Wed 7/15/20**	
143	**Construction of Outdoor Equipment Foundations**	**55 days**	**Fri 3/13/20**	**Wed 5/6/20**	
144	Excavtion & PCC	10 days	Fri 3/13/20	Sun 3/22/20	30FS+5 days
145	Foundation Work	30 days	Mon 3/23/20	Tue 4/21/20	144
146	Bolt Fixing	15 days	Wed 4/22/20	Wed 5/6/20	145
147	**Construction of Transformer Foundation & Rail cum Road**	**170 days**	**Fri 1/10/20**	**Sat 6/27/20**	
148	Excavtion & PCC	60 days	Fri 1/10/20	Mon 3/9/20	32FS+15 days
149	Foundation Work	90 days	Tue 3/10/20	Sun 6/7/20	148
150	Rail Fixing	20 days	Mon 6/8/20	Sat 6/27/20	149
151	**Casting of Fire Wall**	**145 days**	**Sat 1/25/20**	**Wed 6/17/20**	
152	Excavtion & PCC	25 days	Sat 1/25/20	Tue 2/18/20	32FS+30 days
153	Foundation Work	30 days	Wed 2/19/20	Thu 3/19/20	152
154	1st Lift	15 days	Fri 3/20/20	Fri 4/3/20	153
155	2nd Lift	15 days	Sat 4/4/20	Sat 4/18/20	154
156	3rd Lift	15 days	Sun 4/19/20	Sun 5/3/20	155
157	4th Lift	15 days	Mon 5/4/20	Mon 5/18/20	156
158	5th Lift	15 days	Tue 5/19/20	Tue 6/2/20	157
159	6th Lift	15 days	Wed 6/3/20	Wed 6/17/20	158
160	**Construction of Cable Tranches**	**115 days**	**Mon 3/23/20**	**Wed 7/15/20**	
161	Excavtion & PCC	25 days	Mon 3/23/20	Thu 4/16/20	145SS
162	RCC Wall	45 days	Fri 4/17/20	Sun 5/31/20	161
163	Cable Support Fixation	20 days	Mon 6/1/20	Sat 6/20/20	162



L2 Schedule of Add Cha | Task | Milestone | Summary | Project Summary | Critical Task | Progress

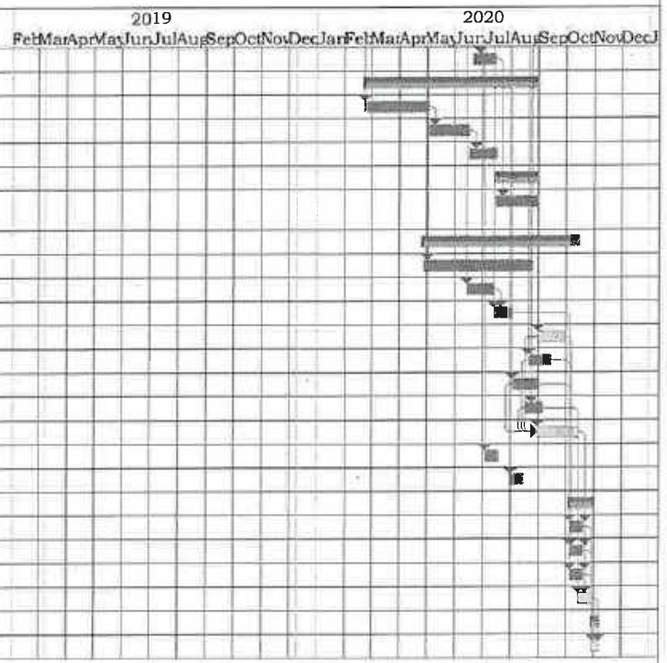
3B.4

General Manager (C&D)
HPPTCL, Shimla-5

KANOHAR

ADD CHAROOR SUBSTATION

ID	Task Name	Duration	Start	Finish	Predecessors
164	Cover Casting	25 days	Sun 6/21/20	Wed 7/15/20	163
165	**Construction of Drainage System**	**189 days**	**Sun 2/23/20**	**Sat 8/29/20**	
166	Construction of Drain	70 days	Sun 2/23/20	Sat 5/2/20	36FS+15 days
167	Construction of Culvert	45 days	Sun 5/3/20	Tue 6/16/20	166
168	Construction of Sump Pit	30 days	Wed 6/17/20	Thu 7/16/20	167
169	**Yard Development**	**45 days**	**Thu 7/16/20**	**Sat 8/29/20**	
170	Land levelling, Antiweed treatment, PCC, Stone spreading etc	45 days	Thu 7/16/20	Sat 8/29/20	164
171	**ERECTION**	**171 days**	**Mon 4/27/20**	**Wed 10/14/20**	
172	**Erection of Earthmat**	**120 days**	**Mon 4/27/20**	**Mon 8/24/20**	123FS+2 days
173	**Erection of Equipment Support structure**	**30 days**	**Sun 6/14/20**	**Mon 7/13/20**	83FS+7 days,146FS+15 days
174	**Erection of Outdoor Equipments**	**20 days**	**Tue 7/14/20**	**Sun 8/2/20**	173,64,69,75,83
175	**Erection of 220 kV GIS Equipments**	**30 days**	**Mon 8/31/20**	**Tue 9/29/20**	54FS+15 days
176	**Erection of 33 kV GIS Equipments**	**25 days**	**Fri 8/21/20**	**Mon 9/14/20**	59FS+15 days
177	**Erection of Station & Power Transformers**	**30 days**	**Mon 8/3/20**	**Tue 9/1/20**	43FS+15 days,49FS+15 days
178	**Erection of Relay and Protection Panels**	**20 days**	**Mon 8/17/20**	**Sat 9/5/20**	89
179	**Laying & Termination of Control & Power Cables**	**45 days**	**Mon 8/31/20**	**Wed 10/14/20**	119,178SS,175SS,176SS,177SS
180	**Erection of Ventilation System**	**15 days**	**Sat 7/4/20**	**Sat 7/18/20**	95FS+15 days
181	**Erection of Illumination System**	**15 days**	**Sat 8/1/20**	**Sat 8/15/20**	113FS+15 days
182	**TESTING**	**25 days**	**Mon 10/5/20**	**Thu 10/29/20**	
183	**Transformers**	**15 days**	**Mon 10/5/20**	**Mon 10/19/20**	177,179FS-10 days
184	**220 & 33 kV GIS**	**15 days**	**Mon 10/5/20**	**Mon 10/19/20**	175,176,179FS-10 days
185	**Other Substation Equipments**	**15 days**	**Mon 10/5/20**	**Mon 10/19/20**	174,179FS-10 days
186	**Control & Relay Panels**	**15 days**	**Thu 10/15/20**	**Thu 10/29/20**	178,179
187	**COMMISSIONING**	**7 days**	**Fri 10/30/20**	**Thu 11/5/20**	
188	**Final Commissioning**	**7 days**	**Fri 10/30/20**	**Thu 11/5/20**	183,184,185,186



L2 Schedule of Add Cha | Task | Milestone | Summary | Project Summary | Critical Task | Progress

General Manager (C&D)
HPPTCL, Shimla-5

3B-5

ACTUAL WORK ACTIVITY COMPLETION SCHEDULE
NOA NO.-HPPTCL/Contracts/KfW/33/220kV Add. Charor S/Stn/2018-19-15697-15704 Dated 08-03-2019
220/132/33 kV GIS SUBSTATION ADDL. CHAROR

S. No.	ACTIVITY	START DATE	FINISH DATE
1	Letter of Award	19-03-2018	19-03-2018
2	Contract Signing	17-04-2018	17-04-2018
	Supply		
3	25.56/34.08/42.60 MVA Transformer with Accessories & NIFPES System	16-01-2021	27-02-2021
4	220 kV GIS Equipments	27-09-2021	22-04-2022
5	33 kV GIS Equipments	23-10-2021	10-06-2022
6	33 kV Tower & Equipment Structures	21-01-2022	21-01-2022
7	Relay & Protection Panels	21-01-2022	21-01-2022
8	Illumination System	06-01-2023	06-01-2023
9	Power & Control Cables	06-01-2023	06-01-2023
10	Earthmat	21-01-2022	06-01-2023
11	Conductor	21-01-2022	21-01-2022
12	Hardware, Clamps & Connectors	21-01-2022	21-01-2022
	CIVIL		
13	Land Devlopment (cutting works)	17/9/2020	09-10-2021
14	Construction of 33 kV Switchgear Building	17/9/2020	04-08-2022
15	Construction of Outdoor Equipments & Tower Foundations	08-01-2021	09-08-2022
16	Construction of Transformer Foundation & Rail cum Road	10-06-2020	24/8/2022
17	Construction of Cable Tranches	16/8/2021	29/4/2023
18	Construction of Stone Masonry, Retaining Wall & Boundary Wall	15/1/2021	04-06-2023
19	Construction of Storm Drainage System	10-04-2021	03-04-2023
20	Yard Development	28/7/22	06-04-2023
	Erection		
21	Erection of Earthmat	10-09-2021	27-02-2023
22	Erection of Lattice Structures	25-10-2022	25-08-2023
23	Erection of Outdoor Equipments	27-09-2021	31-03-2023
24	Erection of 33 kV GIS Equipments	06-06-2022	24-06-2022
25	Erection of 245 kV GIS Equipments	19-05-2022	24-06-2022
26	Erection of Station & Power Transformers Erection of C&R Panels & SAS	31-03-2022	31-03-2022
27	Erection of LT Swirchboard	10-07-2021	24-06-2022
28	Laying & Termination of Control & Power Cables	25-11-2022	31-03-2023
29	Erection of Illumination System	25-11-2022	31-03-2023
30	TESTING	23-09-2022	06-03-2023
31	Final Commissioning		10-05-2023

AE(C) HPPTCL

Sr. Manager (Project)
HPPTCL, PIU Sarahal
Shunter Distt. Kullu (H.P.

General Manager (C&D)
HPPTCL, Shimla-5

3.B.6

HPPTCL-COTR003(01)/1/2023-CONTRACTS-HPPTCL HQ

ANNEXURE-4A

I/525883/2024

H.P. POWER TRANSMISSION CORPORATION LIMITED

(A State Government Undertaking)
Regd. Office: Himfed Bhawan, Panjari, Shimla-5
(CIN): U40101HP2008SGC030950
Ph: -0177-2831283, **FAX**: -0177-2831284 **Web:** hpptcl.com

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To

M/S Kanohar Electricals Limited,
Rithani, Delhi Road, Meerut – 250103,
Uttar Pradesh, India.

Subject: - **Award No. HPPTCL/ADB/GIS Substation Charor/2017-18-19991-99 dated 19.03.2018; Amendment No. 9 due to variation in civil part thereof.**

Dear Sir,

The work "Construction of 132/220 kV GIS substation at Charor, Distt. Kullu, Himachal Pradesh on turnkey basis" has been awarded vide tender No. 27-SS/ADB/HPPTCL/GIS Substation/Charor.

With reference to the subject, it is intimated that Amendment in the Awarded Amount of contract of 132/220 kV GIS Charor is being issued due to variation in the fresh rates for items deviating beyond 40% of the awarded quantity as well as revised quantity in civil part after detailed engineering.

The revised amount after this Amendment is as detailed below:

Sr. No	Description	Amount (INR)
1	Awarded Amount	68,36,74,089/-
2	Amount after Amendment 8	69,02,10,097/-
3	Total Financial Implication due to variation in civil part	-1,52,68,022/-
4	**Final Amended Value of award (2+3)**	**67,49,42,075/-**

Detailed calculation for amended award due to change in the quantities and new rates is enclosed as **Appendix 1**. All other terms and conditions of the contract agreement shall remain unchanged.

You are therefore requested to acknowledge acceptance of this amendment.

Signed by
Vinod Kumar
Date: 03-12-2024 12:53:27
DGM (Contracts)
HPPTCL, Shimla-5

Copy to following for information and necessary action:

1. The GM (C&D), HPPTCL, Head Office, Shimla- 05.
2. The DGM (Projects), HPPTCL, PIU Sarabai, Kullu.
3. The DGM (Finance), HPPTCL, Head Office, Shimla- 05.
4. The DGM & Head Transmission (Design), HPPTCL, Anu, Hamirpur.
5. The Sr. Manager (Projects), HPPTCL, PIU Sarabai, Kullu.

General Manager (C&D)
HPPTCL, Shimla-5

4A-1

Final amendment for civil works of 132/220 kV GIS Substation Charor

		As per the award					As per amendment no.3						Proposed Amendment No 9					
S. No.	Description of Material	BOQ QTY	unit	Unit rate	Total basic amount	Total Amount with GST	Quantity	Unit	Unit rate	Deviated amount after 1st amendment without GST	Deviated amount after 1st amendment with GST	Deviation in amount	QTY as per final billing	Unit	Unit rate	Total basic amount for amendment no.2	Total Deviated amount with GST	date of increase/decrease beyond 40%
	CIVIL WORKS																	
1	Soil investigation of substation/switch yard area as per specifications	1	Job	290254.78	290254.78	342500.64	1	Job	290254.78	290254.7836	342500.64	0	1	Job	290254.78	290254.78	342500.64	
2	Cutting in Earth Work in all kinds of soil and disposal of excavated earth in all leads & lifts as per the direction of the Engineer in charge	25000	cum	290.43	7260869.57	8567826.09	31600	cum	290.43	9003478.261	10624104.35	2056278	27962.71	cum	290.43	8121343.60	9583185.45	
3	Excavation in Foundations in all kind of soil and rock ; Trenches etc. in Earth Work in all lifts stacking the excavated soil not more than 3 metres clear from the edge of the excavation and then returning the stacked soil in 15 cm layers, when required into Plinths sides of Foundationsetc consolidating each deposited layer by ramming and watering and then disposing off all surplus excavated earth within all leads and lifts as per the directions of Engineer in charge (Quantity upto 40%)	12000	cum	232.17	2786086.96	3287582.61	16800	cum	232.17	3900521.739	4602615.65	1315033	16800.00	cum	232.17	3900521.74	4602615.65	
3	Excavation in Foundations in all kind of soil and rock ; Trenches etc. in Earth Work, in all lifts stacking, the excavated soil not more than 3 metres clear from the edge of the excavation and then returning the stacked soil in 15 cm layers, when required into Plinths sides of Foundationsetc consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated earth within all leads and lifts as per the directions of Engineer in charge (Quantity upto 40%)			229.00	0.00	0.00	7629.83		229.00	1724341.58	2034723.06	2034723	6629.54		277.64	1840831.74	2171845.45	28-05-2021
4	Providing and Laying 1 : 3 :6 (1 Cement : 3Sand : 6 Graded Stone Aggregate 40 mm nominal size) and Curing complete excluding Cost of Form Work in, Foundation and Plinth (Quantity upto 40%)	400	cum	6385.22	2554088.86	3013822.61	560	cum	6385.22	3575721.739	4219351.65	1205529	560.00	cum	6385.22	3575721.74	4219351.65	
4	Providing and Laying 1 : 3 :6 (1 Cement : 3Sand : 6 Graded Stone Aggregate 40 mm nominal size) and Curing complete excluding Cost of Form Work in, Foundation and Plinth (Quantity above 40%)			4911.30	0.00	0.00	62.855		4911.30	308699.7615	364265.72	364266	43.15		5388.65	232498.61	274348.36	20-07-2022
6	Providing and Laying reinforced Concrete Cement M20 (Design Mix with Graded Stone Aggregate 20 mm nominal size) and Curing complete excluding Cost of Form Work and Reinforcement for Reinforced Cement Concrete Work including admixtures/additives in Retaining Walls and Breast walls and as per directions of EIC (Quantity upto 40%)	2600	cum	7779.13	16558280.87	19538747.63	2800	cum	7779.13	21781563.22	25702246.96	7343499	2600.00	cum	7779.13	21781563.22	25702246.96	
6	Providing and Laying reinforced Concrete Cement M20 (Design Mix with Graded Stone Aggregate 20 mm nominal size) and Curing complete excluding Cost of Form Work and Reinforcement for Reinforced Cement Concrete Work including admixtures/additives in Retaining Walls and Breast walls and as per directions of EIC (Quantity above 40%)			6462.11	0.00	0.00	368.25		6462.11	2380583.939	2824429.05	2824429	231.17		6850.90	1537309.29	1814385.96	14-08-2022
8	Foundation: Footings bases of columns and the like and M25 mass concrete including fixing and grouting of bolts and embedments as per electrical equipments/tower requirement(quantity upto 40% of award)	1200	cum	8359.13	10030956.52	11836528.70	1680	cum	8359.13	14043339.13	16571140.17	4734611	1680.00	cum	8359.13	14043339.13	16571140.17	
	Foundation: Footings bases of columns and the like and mass concrete including fixing and grouting of bolts and embedments as per electrical equipments/tower requirement(quantity above 40% of award)			6165.29	0.00	0.00	862.53		6165.29	5334998.184	6295297.66	6295298	708.32		7374.84	5223583.57	6163828.61	25-08-2022
9	Suspended floors,Roofs,Landings &shelves &their supports Balconies, beams , girders, bressumers cantilevers up to floor to level including fixing and grouting of bolts and embedments as per electrical equipments/ EOT crane beams etc	800	cum	8359.13	6687304.35	7891019.13	929.80	cum	8359.13	7772327.637	9171346.65	1280326	668.36	cum	8359.13	5586881.70	6592532.20	
7	Providing form work with steel plates 3.15 mm thick welded with angle iron in frame 30x30x5 mm, so as to give a fair finish including centering ,shuttering ,strutting & propping etc. with wooden battens & ballies in all heights and removal of the same for insite-reinforced concrete & plain concrete work in Foundation, footings basis of columns etc. and mass concrete (Quantity upto 40%)	16000	sqm	348.70	5579130.43	6583373.91	22400	sqm	348.70	7810782.609	9216723.48	2633350	19700.54	sqm	348.70	6869491.25	8105899.67	
7	Providing form work with steel plates 3.15 mm thick welded with angle iron in frame 30x30x5 mm, so as to give a fair finish including centering ,shuttering ,strutting & propping etc. with wooden battens & ballies in all heights and removal of the same for insite-reinforced concrete & plain concrete work in Foundation, footings basis of columns etc. and mass concrete.(Quantity above 40%)			324.00	0.00	0.00	934.24		324.00	250579.76	307477.04	307477	0.00		324.00	0.00	0.00	

4A.2

General Manager (C&D)
HPPTCL, Shimla-5

8	Providing & Laying Damp Proof Course 50 mm thick with Cement Concrete , 1: 2: 4 (1 Cement: 2 Sand: 4 Stone Aggregate 12.5 mm nominal size) and Curing complete (Quantity upto 40%)	50	sqm	3715.65	185782.61	219223.48	70	sqm	3715.65	260095.6522	306912.87	67689	52.25	sqm	3715.65	194142.83	229086.53	
8	Providing & Laying Damp Proof Course 50 mm thick with Cement Concrete , 1: 2: 4 (1 Cement: 2 Sand: 4 Stone Aggregate 12.5 mm nominal size) and Curing complete (Quantity above 40%)			375.17	0.00	0.00	2.75		375.17	1031.7175	1217.43	1212	0.00		375.00	0.00	0.00	
9	Providing and Laying Cement Concrete , 1: 2: 4 (1 Cement: 2 Sand: 4 Sand Stone Aggregate 20 mm nominal size) and Curing complete excluding Cost of Form Work in Foundation and Plinth. (Quantity upto 40%)	50	cum	7546.96	377347.83	445270.43	70	cum	7546.96	528286.9565	623378.61	178108	70.00	cum	7546.96	528286.96	623378.61	
9	Providing and Laying Cement Concrete , 1: 2: 4 (1 Cement: 2 Sand: 4 Sand Stone Aggregate 20 mm nominal size) and Curing complete excluding Cost of Form Work in Foundation and Plinth			5486.77	0.00	0.00	98.45		5486.77	540172.5065	637403.56	637404	183.38		5190.71	1006804.31	1181569.09	10-04-2023
10	Providing and Laying Cement Concrete 1: 6: 12 , (1 Cement: 6 Sand: 12 graded Stone Aggregate 40 mm nominal size) and Curing complete excluding Cost of Centering and Shuttering in Foundation and Plinth	150	cum	5805.22	870782.61	1027523.48	150	cum	5805.22	870782.6087	1027523.48	0	44.02	cum	3735.24	164440.27	194039.52	11-04-2023
11	Providing Mild / Tor Steel Reinforcement for R. C. C. Work including Bending, Binding and Placing in position complete for all heights	350	MT	66178.26	23162391.30	27331521.74	446.7	MT	66178.26	29561829.13	34882958.37	7551337	465.63	MT	66178.26	30814267.45	36380855.16	
12	Brick Work using Common Burnt Clay Building Bricks in				0.00	0.00				0	0.00	0				0.00	0.00	
a	Foundation and Plinth in Cement Mortar 1: 4 (1 Cement: 4 Sand) First Class Bricks	100	cum	5805.22	580521.74	685015.65	100	cum	5805.22	580521.74	685015.65	0	87.96	cum	5805.22	510633.78	602512.37	
b	Super Structure above Plinth level upto all heights in Cement Mortar 1: 4 (1 Cement: 4 Sand) First Class Bricks	400	cum	6037.39	2414956.52	2849648.70	507.67	cum	6037.39	3065902.443	3616762.88	767054	481.07	cum	6037.39	2904395.76	3427167.00	
c	Half Brick Masonry in common burnt clay building bricks in C.M. 1:4 (1 Cement: 4 sand) up to all heights and as directed by EIC	1200	sqm	2553.91	3064695.65	3616340.67	1200	sqm	2553.91	3064695.652	3616340.67	0	978.95	sqm	2553.91	2500140.40	2950165.68	
13	15 mm cement plaster in single coat on rough / fair side of brick /concrete /stone wall for interior plastering upto all heights including arises, internal rounded angles chamfers and/or rounded angles not exceeding 80 cm in girth &finished even & smooth. (in cement mortar 1 : 4 : 1 cement, 4 sand) (Quantity upto 40%)	2500	sqm	232.17	580434.78	684913.04	3500	sqm	232.17	812608.6957	958878.26	273965	3500.00	sqm	232.17	812608.70	958878.26	
13	15 mm cement plaster in single coat on rough / fair side of brick /concrete /stone wall for interior plastering upto all heights including arises, internal rounded angles chamfers and/or rounded angles not exceeding 80 cm in girth &finished even & smooth. (in cement mortar 1 : 4 : 1 cement, 4 sand) (Quantity above 40%)			192.63	0.00	0.00	563.26		192.63	108500.7738	128030.91	128031	2309.33		147.98	339655.90	400793.96	15-06-2023
14	20mm cement plaster in two coats (8mm + 12mm) on rough / fair side of brick /concrete /stone wall for exterior plastering upto all heights including arise external rounded angles, chamfers and/or rounded angles not exceeding 80 cm in girth & finished even & smooth. (in cement mortar 1 : 3 : 1 cement, 3 sand for 8mm outer layer and 12mm base as 1:4 as above) (Quantity upto 40%)	3500	sqm	290.43	726086.96	856782.61	3500	sqm	290.43	1016505	1199475.90	342893	3500.00	sqm	290.43	1016505.00	1199475.90	
14	20mm cement plaster in two coats (8mm + 12mm) on rough / fair side of brick /concrete /stone wall for exterior plastering upto all heights including arise external rounded angles, chamfers and/or rounded angles not exceeding 80 cm in girth & finished even & smooth. (in cement mortar 1 : 3 : 1 cement, 3 sand for 8mm outer layer and 12mm base as 1:4 as above) (Quantity above 40%)			243.92	0.00	0.00	972.11		243.92	237117.0712	279798.14	279798	381.55		227.81	86920.18	102565.79	16-01-2023
15	6 mm cement plaster to ceiling in cement mortar 1:3 (1 cement: 3 sand)	800	sqm	232.17	185739.13	219172.17	900	sqm	232.17	185736	219168.48	-4	409.21	sqm	108.35	44748.31	52803.01	16-01-2023
16	Supplying and Fixing Rolling Shutters of approved Make made of 80 mm x 1.25 mm M. S. Laths interlocked together through their entire length and joined together at the end by End Locks mounted on specially designed Pipe Shaft with Brackets, Side Guides and arrangements for inside and outside locking with push pull operation complete but including the cost of the top cover and engine.	60	sq. m	5805.22	348313.04	411009.39	50	sq. m	5805.22	348313.2	411009.58	0	57.50	sq. m	5,805.22	333800.15	393884.18	
17	Stone soling under floors as per directions of EIC	100	cum	2321.74	232173.91	273965.22	100	cum	2321.74	232174	273965.32	0	140.00	cum	2,321.74	325043.60	383551.45	19-09-2023
17	Stone soling under floors as per directions of EIC										0.00		4.43		2,047.07	9056.30	10686.80	
18	P/L Sand filling under floors as directions of EIC	350	cum	2321.74	812608.70	958878.26	0	cum	2321.74	0	0.00	-958878	0.00	cum	2,321.74	0.00	0.00	
19	50 mm thick cement concrete flooring with metallic concrete hardener topping under layer of 35 mm thick cement concrete 1:2:4 (1 Cement: 2 Sand : 4 Graded Stone aggregate 20 mm nominal size) and top layer of 15 mm thick metallic concrete hardener mix 1:2 (1 Cement hardener mix : 2 Stone aggregate 6 mm nominal size) by volume with metallic hardening compound of approved quality is mixed in the ratio 4:1 (4 parts of cement : 1 part of metallic floor hardening compound approved quality, by weight including finishing complete	300	sqm	1741.74	522521.74	616675.65	404.71	sqm	1741.74	704699.5954	831761.52	215086	408.36	sqm	1741.74	711256.95	839283.20	

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20	Providing and laying granite stone in flooring 20 mm (average) thickness base of cement mortar 1:3 (1 cement :3 Sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete 20 mm thick	10	sq	5805.22	58052.17	68501.57	14	sq	5805.22	81273.08	95902.23	27401	14.00	sq	5805.22	81273.08	95902.23	
20	Providing and laying granite stone in flooring 20 mm (average) thickness base of cement mortar 1:3 (1 cement :3 Sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing			3174.46	0.00	0.00	1.84		3174.46	5841.0432	6892.43	6892	6.32		8,944.39	43888.54	51788.47	26-10-2021
21	Providing & Laying 20mm thick acid proof tiles of size 300x300mm of specified shade in floors treads of steps and landing laid on a bed 12 mm thick cement mortar 1:3 (1 cement :3 sand) jointing with cement slurry mixed with pigment to match the shade of tiles	50	sq m	5805.22	290260.87	342507.83	70	sq m	5805.22	406365.4	479511.17	137003	70.00	sq m	5805.22	406365.40	479511.17	
21	Providing & Laying 20mm thick acid proof tiles of size 300x300mm of specified shade in floors treads of steps and landing laid on a bed 12 mm thick cement mortar 1:3 (1 cement :3 sand) jointing with cement slurry mixed with pigment to match the shade of tiles			1982.30	0.00	0.00	6.77		1982.30	13420.171	15835.80	15838	4.74		2,792.10	13234.55	15616.77	26-05-2021
22	Kota stone slab flooring 20 mm average thick base of cement morter 1:4 (1Cement :4 sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab floor including rubbing & polishing complete	600	sqm	1166.87	699521.74	821895.65	600	sqm	1166.87	686522	821895.96	0	339.99	sqm	1,842.93	626578.08	739302.14	23-06-2021
23	Providing and laying vitrified tiles 5.5mm thick in flooring (600x600mm) size antiskid in flooring and treads of steps laid on abed of 12 mm thick cement mortar 1:3 (1Cement :3 sand) finished with flush pointing in white cement	200	sqm	1741.74	348347.83	411050.43	280	sqm	1741.74	487687.2	575470.90	164420	280.00	sqm	1741.74	487687.20	575470.90	
23	Providing and laying vitrified tiles 5.5mm thick in flooring (600x600mm) size antiskid in flooring and treads of steps laid on abed of 12 mm thick cement mortar 1:3 (1Cement :3 sand) finished with flush pointing in white cement			1157.84	0.00	0.00	121.13		1157.84	151801.3332	179125.57	179126	205.66		1,838.79	398724.28	470494.85	23-06-2021
24	Providing and laying spartic ceramic tiles 5.5 mm thick on walls laid on a bed of 12 mm thick cement morta 1:3 (1 cement: 3 sand) finished with flush pointing in white cement	10	sqm	2321.74	23217.39	27396.52	14	sqm	2321.74	32504.36	38355.14	10959	14.00	sqm	2321.74	32504.36	38355.14	
24	Providing and laying spartic ceramic tiles 5.5 mm thick on walls laid on a bed of 12 mm thick cement morta 1:3 (1 cement: 3 sand) finished with flush pointing in white cement(Quantity above 40%)			824.07	0.00	0.00	185.6		824.07	153112.208	180672.40	180672	205.64		1,812.34	372686.82	439774.10	23-06-2021
25	Distempering two coats with oil bond washable distemper of approved brand &manufacture of required shade on undecorated wall surfaces to give an even shade over & including a priming coat with distemper primer of approved brand & manufacture after thoroughly brushing the surface free from mortar droppings and other foreign matter and also including preparing the surface even and sand papered smooth priming coat with distemper primer.	3000	sqm	173.91	521730.13	615652.17	4196.06	sqm	173.91	729740.2726	861093.52	245441	3890.25	sqm	173.91	676552.86	798332.57	
26	Finishing Wall with Water Proofing Cement Paint of approved Brand and Manufacture and of required Shade on undecorated Wall Surfaces (Two coats) to give an even Shade after thoroughly Brushing the surface to remove all Dirt, Loose or Softened Paint. (Quantity upto 40%)	1700		173.91	295652.17	348869.57	2380		173.91	413905.8	488408.84	139539	2380.00		173.91	413905.80	488408.84	
26	Finishing Wall with Water Proofing Cement Paint of approved Brand and Manufacture and of required Shade on undecorated Wall Surfaces (Two coats) to give an even Shade after thoroughly Brushing the surface to remove all Dirt, Loose or Softened Paint. (Quantity upto 40%)		sqm	39.00	0.00	0.00	2420.51	sqm	39.00	94403.79	111396.47	111396	1896.79	sqm	65.86	124872.95	147468.08	03-08-2021
27	Applying priming coat over new steel & other metal surfaces after &including preparing the surface by thourghly cleaning oil grease dirt & other foreign matter & scoured with wire brushes fine steel wool scrappers & sand pepering complete with ready mixed priming paint brushing red lead oxide zinc oxide chrome	100	sqm	290.43	29043.48	34271.30	0	sqm	290.43	0	0.00	-34271	0.00	sqm	290.43	0.00	0.00	
28	Painting two coats(excluding priming coat) on new steel & other metal surfaces with enamel paint brushing to give an even shade vc cleaning th surfaces of all dirt, dust &other foreign matter with enamel paint &other than white	100	sqm	580.87	58086.96	68542.61	140	sqm	580.87	81321.8	95959.72	27417	140.00	sqm	580.87	81321.80	95959.72	
28	Painting two coats(excluding priming coat) on new steel & other metal surfaces with enamel paint brushing to give an even shade vc cleaning th surfaces of all dirt, dust &other foreign matter with enamel paint &other than white			54.00	0.00	0.00	4747.38		54.00	256369.32	302515.80	302516	[redacted]		69.63	336686.46	373690.02	27-05-2021
29(a)	Providing under layer for plinth protection of 75 mm thick (unconsolidated) bed dry brick/ stone aggregate 40mm nominal size well rammed and consolidated and ground with fine sand including preparation of ground	200	sqm	580.87	116173.91	137085.22	229.5	sqm	580.87	133309.665	157305.40	20220	172.87	sqm	580.87	100297.66	118351.24	
29(b)	Providing plinth protection 50 mm thick in cement concrete 1:2:4 (1 cement:2 sand :4 graded stone aggregate of 20 mm nominal size)	200	sqm	464.35	92869.57	109586.09	229.5	sqm	464.35	106568.325	125750.62	16185	174.16	sqm	464.35	80871.20	95428.01	

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30	Prov. & fixing anodized Aluminum doors, windows, Ventilators and glazed partitions with extruded built up section standard tubular and other sections of approved make confirming to IS 733 and IS 1285 anodized transparent or dyed to require ed shade according to IS 1868 (minimum Anodic coating of grade AC 15) fixed with Rawl plugs and screws or with fixing clips or with expansion board fasteners PC necessary filling up of gaps at junctions at top bottom and sides with required PVC/ neropeene flat etc. Aluminum sections shall be smooth ,rust free, straightand jointed mechanically wherever required ve clleat angles aluminum snap beading for glazing /paneling CP brass stainless steel screws or complete as per architectural drawing and directions of Engineer -in -charge				0.00	0.00				0	0.00	0				0.00	0.00	
a	For door, windows and ventilators and glazed partition frames a	2500	kg	522.61	1306521.74	1541695.65	2500	kg	522.61	1306525	1541699.50	4	2408.90	kg	522.61	1258914.71	1485519.35	
b	For Shutters of Doors ,Windows and ventilators including providing and fixing wire gauge shutters as per requirement hinges /pivots and making provision of putty wherever required including the cost of PVC/ Neoprene Gaskets required (fitting & Glazing / paneling shall be paid for separately)	1000	kg	522.61	522608.70	616878.26	1000	kg	522.61	522610	616878.80	2	995.61	kg	522.61	520420.20	614095.91	
30	Providing &fixing glazing in aluminum doors ,windows , ventilators shutters and partitions etc with PVC/ Neoprene gaskets etc. complete as per the architectural drawings and the directions of Engineer -in -charge (Cost of Aluminum snap beading shall be paid in basic item)				0.00	0.00				0	0.00	0				0.00	0.00	
a	Glazing with glass pans of 5.50 mm thickness (weight not less than 13.75 Kg / Sqm.) Toughened glass for Non AC Room	75	sqm	2321.74	174130.43	200473.91	105	sqm	2321.74	243782.7	287883.59	80190	105.00	sqm	2321.74	243782.70	287883.59	
a	Glazing with glass pans of 5.50 mm thickness (weight not less than 13.75 Kg / Sqm.) Toughened glass for Non AC Room a			2139.73	0.00	0.00	180.34		2139.73	385864.9352	455084.62	455085	168.49		1,419.39	153989.92	181708.10	24-08-2022
b	Glazing with glass pans of 5.50 mm thickness (weight not less than 13.75 Kg / Sqm.) double Toughened glass for AC Room	70		3483.48	243843.48	287735.30	99		3483.48	341361.04	402926.83	115094	52.61		3483.48	183265.88	216253.74	
b	Glazing with glass pans of 5.50 mm thickness (weight not less than 13.75 Kg / Sqm.) double Toughened glass for AC Room		sqm	2139.73	0.00	0.00	41.25	sqm	2139.73	88253.9625	104151.36	104151	0.00	sqm	2,139.73	0.00	0.00	
31	Particle board phenol bonded exterior/interior grade in partitions 12 mm thick	50	sqm	1741.74	87086.95	102782.61	70	sqm	1741.74	121821.8	143867.72	41105	70.00	sqm	1741.74	121821.80	143867.72	
31	Particle board phenol bonded exterior/interior grade in partitions 12 mm thick		sqm	1351.00	0.00	0.00	2.13	sqm	1351.00	2877.63	3395.60	3396	9.70	sqm	2,269.97	21980.53	25913.42	19-09-2022
32	Providing & fixing Double action hydraulic floor spring of approved brand & manufacture (confirming to IS 6315 for Aluminum doors cost of cutting floor as required embedding in floors & cover plates etc complete as per the direction of Engineer -in charge	10	Nos	4644.35	46443.48	54803.30	10		4644.35	46443.5	54803.33	0	0.00		4644.35	0.00	0.00	
33	Providing false ceiling as per IS specification in control room and as per directions of EIC	200	sqm	2902.61	580521.74	685015.65	280	Nos	2902.61	812730.8	959022.34	274007	280.00	Nos	2902.61	812730.80	959022.34	
33	Providing false ceiling as per IS specification in control room and as per directions of EIC			2734.85	0.00	0.00	227.55	sqm	2734.85	622315.1175	734331.84	734332	165.18	sqm	1,952.84	981595.68	428682.87	15-09-2022
	Steel work welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of red lead paint				0.00	0.00				0	0.00	0				0.00	0.00	
34 A	In beams joists channels, angles, ties, flats,chequred plate,NG rails etc. with connection plates or angle cleats as in main and cross beams hip and jack rafters, purlins connected to common rafters and the like (Quantity upto 40%)	50	MT	69660.87	3483043.48	4108991.30	70		69660.87	4876260.9	5753967.66	1643997	70.00		69660.87	4876260.90	5753967.66	
a)	In beams joists channels, angles, ties, flats,chequred plate,NG rails etc. with connection plates or angle cleats as in main and cross beams hip and jack rafters, purlins connected to common rafters and the like (Quantity upto 40%)			77946.00	0.00	0.00	25.280	MT	77946.00	1783877.44	2116539.38	2116539	20.28	MT	1,09,449.29	2220835.47	2620565.85	09-09-2022
6	Steel work welded in built up sections in gratings framed guard bars ,ladders , railings, brackets and similar works (Quantity upto 40%)	20	MT	75466.09696	1509321.74	1780998.85	28		75466.09	2113050.52	2493399.61	712400	28.00		75466.09	2113050.52	2493399.61	

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b)	Steel work welded in built up sections in gratings framed guard bars , ladders , railings, brackets and similar works (Quantity upto 40%)			100037.00	0.00	0.00	4.12	MT	100037.00	412152.44	486339.88	486340	3.75	MT	1,36,263.27	508534.53	600070.74	29-08-2023
35	Steel work in single sections, including cutting hoisting fixing in position and applying a priming coat of read lead paint , in RS Joists ,channels angles, Tees , flats , trussed purlins etc as per directions of EIC	5	MT	75466.09	377330.43	445249.91	7		75466.09	528262.63	623349.90	178100	7.00		75466.09	528262.63	623349.90	
36	Steel work in single sections, including cutting hoisting fixing in position and applying a priming coat of read lead paint , in RS Joists ,channels angles, Tees , flats , trussed purlins etc as per directions of EIC (Quantity above 40%)			66836.00	0.00	0.00	26.66	MT	66836.00	1783852.64	2104946.35	2104948	35.29	MT	98,627.24	3479559.01	4105881.43	28-08-2023
36	Random rubble masonry/polygonal rubble masonry (uncoursed/brought to courses) with hard stone of approved quality in foundation and plinth including leveling up with cement concrete 1:6:12 (1 cement : 6 sand : 12 graded stone aggregate 20mm nominal size) in cement mortar 1:6 (1 cement:6 sand)				0.00	0.00				0	0.00	0				0.00	0.00	
a	In foundations and plinth	150	cum	2902.61	435391.30	513781.74	150	cum	2902.61	435391.5	513781.97	0	208.69	cum	2902.61	606337.61	715478.62	
b	In breast walls and retaining walls	750	cum	2902.61	2176956.52	2568808.70	750	cum	2902.61	2176957.5	2568809.65	1	826.62	cum	2902.61	2399355.48	2831239.46	
37	Stone filling behind retaining walls as per direction of EIC	750	cum	2902.61	2176956.52	2568808.70	750	cum	2902.61	2176957.5	2568809.65	1	17.28	cum	1,544.42	26659.82	31458.59	28-08-2023
38	P/L Stone filling 40mm size for transformer/reactor foundation	40	cum	4644.35	185773.91	219213.22	40	cum	4644.35	185774	219213.32	0	12.98	cum	2,256.82	29278.26	34548.36	29-08-2023
39	Excavation for road way in all kinds of soil such as pick work,jumper work,blasting work hard or soft chiseling etc in all heights and depths using manual means for carrying of cut earth to embankment site within all leads and lifts as per technical specification including entire carriage of material in all leads and lifts as per the direction to Engineer -in -charge	500	cum	813.04	406521.74	479695.65	700	cum	813.04	569128	671571.04	191875	368.50	cum	813.04	299801.99	353530.35	
39	Excavation for road way in all kinds of soil such as pick work,jumper work,blasting work hard or soft chiseling etc in all heights and depths using manual means for carrying of cut earth to embankment site within all leads and lifts as per technical specification including entire carriage of material in all leads and lifts as per the direction to Engineer -in -charge			627.00	0.00	0.00	170.20		627.00	106715.4	125924.17	125924	0.00		627.00	0.00	0.00	
40	Proving laying & spreading and compacting 100mm thick Grade-I stone aggregate of 90mm to 40mm size to water bound macadam specification including spreading in uniform thickness hand packing rolling with thre wheel 80-100KN static roller in stages to proper grade & camber applying and booming stone screening /binding material to fill up the interstices of coarse aggregate water & compacting required density grading -1 as per technical specifications by manual means inc entire carriage of material in all leads and lifts as per the direction of Engineer - in Charge	250	cum	2321.74	580434.78	684913.04	286.73	cum	2321.74	665712.5100	785540.76	100628	313.19	cum	2321.74	727143.43	858029.25	
41	Proving laying & spreading and compacting 75mm thick Grade-II stone aggregate 63 to 40mm size of water bound macadam specification including spreading in uniform thickness hand packing rolling with smooth wheel roller 80-100KN in stages to proper grade and chamber and booming stone screening/binding material to fill up the interstice of coarse aggregate watering and compacting to the required density grading -2 as per technical specification by mechanical means including entire carriage of material in all leads and lifts as per the direction of Engineer in charge	200	cum	2321.74	464347.83	547930.43	241.46	cum	2321.74	560607.3404	661518.66	113586	235.08	cum	2321.74	545798.12	644041.78	
42	Proving laying & spreading and compacting 75mm thick Grade-II stone aggregate 50 to 25 mm size of water bound macadam specification including spreading in uniform thickness hand packing rolling with smooth wheel roller 80-100KN in stages to proper grade and chamber and booming stone screening/binding material to fill up the interstice of coarse aggregate watering and compacting to the required density grading -3 as per technical specification by mechanical means including entire carriage of material in all leads and lifts as per the direction of Engineer in charge	200	cum	2321.74	464347.83	547930.43	241.46	cum	2321.74	560607.3404	661518.66	113586	235.08	cum	2321.74	545798.12	644041.78	
43	Providing and applying tack coat with bitumen i.e VG-10 or S-90 or RS-1 emulsion using emulsion distributor at the rate of 0.25 to 0.30Kg per Sqm on the prepared granular surface cleaned with Hydraulic broom as per technical specification clause-503	1000	Sq.mtr	580.87	580869.57	685426.09	600	Sq.mtr	580.87	348522	411255.96	-274170	602.00	Sq.mtr.	580.87	349683.74	412626.81	

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44	Providing Laying and Rolling of open graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.5 mm aggregate either using penetration grade bitumen at the rate of 1.46 Kg /sq mtr to required line grade and level to serve as wearing coarse on a previously prepared base i/c mixing in a suitable plant laying and rolling with a 3 wheel 80-100 Kn static s Roller capacity finished to required level and grades to be followed by seal coat of type-B) by manual means.)(bitumen VG -10 or S-90 i/c entire carriage of material in all leads and lifts as per the instructions of Engineer in charge	1000	Sq mtr	928.57	809565.22	719286.96	800	Sq mtr	809.57	355742	431575.56	-287711	802.00	Sq mtr	809.57	386961.14	433014.15	
45	Providing and Laying seal Coat sealing the voids in a bituminous surface laid to the specific levels grade and cross fall using type-B as per technical specifications clause 510 (by manual Means)(Bitumen Vg 10 or S-90 using @ 0.68 Kg per Sqm. (zero point six eight kilogramme per square metre) including entire carriage of materials in all leads and lifts as per the directions of Engineer -in- charge	1000	Sq mtr	928.70	828695.65	1095860.87	800	Sq mtr	928.70	557220	657519.60	-438341	802.00	Sq mtr	928.70	559077.40	659711.33	
46	Providing Stone Khamja drain of 45 cm wide including 25 cm side stone laid in cement mortar 1:6 (1 cement: 6 sand) complete as HPPWD specification	200	Rmtr	2321.74	464347.83	547930.42	200	Rmtr	2321.74	464348	547930.64	0	0.00	Rmtr	2321.74	0.00	0.00	
47	Excavation in earth work & banking in 20 cm Layer including breaking clouds &compacting with Road Rollers to attain the bearing capacity of soil at the required level including filling up ground depressions and to achieve the required resistivity and proposed level as per site requirement within all leads and lifts as per the directions of Engineer in Charge	100	cum	522.61	52260.87	61667.83	100	cum	522.61	52261	61667.98	0	0.00	cum	522.61	0.00	0.00	
48	Stone Soling properly hand packed filling interstices with spalls and consolidating with Power Road Roller to the required gradient and camber including Spreading, Watering and Rolling of Binding Materials Moorum or Earth etc as per directions of EIC	100	cu. m	1393.04	139304.35	164379.13	100	cu. m	1393.04	139304	164378.72	0	0.00	cu. m	1393.04	0.00	0.00	
49	P/L 12 mm thick Bitumen impregnated fiber board for expansion joints as per directions of EIC (quantity upto 40%)	50	Rmtr	1160.87	58043.48	68491.30	70	Rmtr	1160.87	81260.9	95887.86	27397	70.00	Rmtr	1160.87	81260.90	95887.86	
49	P/L 12 mm thick Bitumen impregnated fiber board for expansion joints as per directions of EIC (quantity above 40%)			377.00	0.00	0.00	414.72		377.00	156348.44	184492.34	184492	112.85		16.41	1738.76	2051.73	11-05-2023
50	P/L Bitumen joint sealant in expansion and contraction joints of Concrete roads as per directions of EIC (quantity upto 40%)	50	Rmtr	1160.87	58043.48	68491.30	70	Rmtr	1160.87	81260.9	95887.85	27397	0.00	Rmtr	1160.87	0.00	0.00	
50	P/L Bitumen joint sealant in expansion and contraction joints of Concrete roads as per directions of EIC (quantity upto 40%)			9.00	0.00	0.00	301.5		9.00	2713.5	3201.93	3202	0.00		9.00	0.00	0.00	
	ANTIWEED TREATMENT				0.00	0.00					0.00	0				0.00	0.00	
51	Providing and Supplying all Labour, Material, Equipments etc Excavation, Mixing / Injecting Chemicals to achieve the guaranteed effectiveness of Treatment at least upto three years, Rolling, Dressing, Compacting the Excavated Earth within Sub Station Area excluding cement concrete as per directions of EIC	3000	sqm	560.87	1742608.70	2056278.26	3000	sqm	560.87	1742610	2056279.80	2	2040.87	sqm	560.87	1155017.20	1396320.30	
52	Providing and laying cement concrete 1:5:10 (1 cement: 5 sand: 10 graded stone aggregate 40 mm nominal size) and curing complete excluding cost of form work in foundation and plinth with the layer of cement slurry 1:5	225	cum	3483.48	783782.61	924863.48	275.62	cum	3483.48	960813.4536	1133775.86	208896	246.02	cum	3483.48	860972.71	1019487.80	
	SITE SURFACING				0.00	0.00				0	0.00	0				0.00	0.00	
53	Providing, Supplying and Laying three layers of Uncrushed / Crushed Stone Pebbles (Gravel) Fill in the first layer after compaction shall make minimum 50 mm thickness course / layer of 20 mm nominal size, Consolidated / Compacted and Rolled as per Specations	3000	sqm	173.91	521739.13	615652.17	3000	sqm	173.91	521730	615641.40	-11	2018.78	sqm	173.91	351066.93	414251.52	
	STORM DRAINAGE SYSTEM				0.00	0.00				0	0.00	0				0.00	0.00	
54	Construction of storm water drainage scheme including roads culverts ,drains & cable trenches crossings etc as per specifications				0.00	0.00				0	0.00	0	0.00			0.00	0.00	
a	Providing Water Drainage System with a Section of 300 mm wide x 450 mm deep at a Start Point with a smooth grade of 1 500. All Concrete in contact with Water shall be of M - 25 Grade	300	Rmtr	3483.48	1045043.48	1233151.30	300	Rmtr	3483.48	1045044	1233151.92	1	117.95	Rmtr	4.607.01	543396.83	541208.26	11-05-2023
b	Providing Water Drainage System with a Section of 400 mm wide x 500 mm deep at a Start Point with a smooth grade of 1 500. All Concrete in contact with Water shall be of M - 25 Grade	200	Rmtr	4063.48	812695.65	958980.87	200	Rmtr	4063.48	812696	958981.28	0	195.00	Rmtr	4063.48	792378.60	935006.75	
55	Constructing coarse rubble hammer dressed U shape open surface drain with side wall 15x22 cm, in cement mortar 1:6 (1 cement : 6 Sand) & inside plastering with cement mortar 1:3 (1cement 3sand) including earth work &laying 10 cm cement concrete in 1:5:10 (1cement 5 sand 10 graded stone aggregate of 40 mm nominal size) and 7.5 cm cement concrete 1:2:4 (1 cement 2sand 4 graded stone aggregate of 20mm nominal size) and finished with a floating coat of neat cement,complete wise per standard design	200	Rmtr	3483.48	696695.65	822100.87	200	Rmtr	3483.48	696696	822101.28	0	92.95	Rmtr	921.30	85634.68	101048.89	19-09-2023

General Manager (C&D)
HPPTCL, Shimla-5

56	Providing laying (to level or slopes) and jointing reinforced concrete heavy duty non - pressure pipes IS class NP 2 of the following internal diameter with flush joints including testing of joints complete				0.00	0.00				0	0.00	0				0.00	0.00	
i)	250mm	100	Rmtr	1160.87	116086.96	136982.61	100	Rmtr	1160.87	116087	136982.66	0	140.00	Rmtr	1160.87	162521.80	191775.72	
ii)	300mm	100	Rmtr	1741.74	174172.91	205525.22	100	Rmtr	1741.74	174174	205525.32	0	29.40	Rmtr	716.58	20891.49	24651.95	15-11-2022 15-11-2022
iii)	450mm	45	Rmtr	2321.74	104478.26	123284.35	45	Rmtr	2321.74	104478.3	123284.39	0	51.04	Rmtr	2321.74	118501.61	139831.90	
57	Providing laying (to level or slopes) and jointing reinforced concrete heavy duty non - pressure pipes IS class NP 3 of the following internal diameter with flush joints including testing of joints complete				0.00	0.00				0	0.00	0				0.00	0.00	
i)	450mm	50	Rmtr	2902.61	145130.43	171253.91	60	Rmtr	2902.61	174156.6	205534.79	34251	48.29	Rmtr	2902.61	140167.04	165397.10	
ii)	600mm	45	Rmtr	4644.35	208995.65	246614.87	45	Rmtr	4644.35	208995.75	246614.99	0	0.00	Rmtr	4644.35	0.00	0.00	
iii)	900 mm	10	Rmtr	5805.22	58052.17	68501.57	10	Rmtr	5805.22	58052.2	68501.60	0	0.00	Rmtr	5805.22	0.00	0.00	
58	Providing and Fixing of following Gates with Support Structures (including all Labour, Material and Transportation) complete as per Specification				0.00	0.00				0	0.00	0				0.00	0.00	
a	5.0 m wide and 2 m high, 2 Panel Gate alongwith side 1.20 m wide Wicket Gate	2	Nos	232203.48	464406.96	548000.21	2	Nos	232203.48	464406.96	548000.21	0	2.04	Nos	232203.48	473695.10	558960.22	
59	Supplying and Fixing Galvanized Steel Barbed Wire (IS: 278 – 1982 Type – I) weighing 9.38 kg per 100 metres (minimum). Straining and Fixing to any type of Standard Rails, Straining Bolts including securing with end provision of Galvanized Mild Steel Wire, staples or steel pins etc as directed. (Posts and struts of wood concrete, steel etc and straining bolts shall be paid for separately.	1500	Rmtr	406.09	730956.52	862528.70	2520	Rmtr	406.09	1023346.8	1207549.22	345021	1764.50	Rmtr	406.09	716545.81	845524.05	
	Supplying and Fixing Galvanized Steel Barbed Wire (IS: 278 – 1982 Type – I) weighing 9.38 kg per 100 metres (minimum). Straining and Fixing to any type of Standard Rails, Straining Bolts including securing with end provision of Galvanized Mild Steel Wire, staples or steel pins etc as directed. (Posts and struts of wood concrete, steel etc and straining bolts shall be paid for separately.			15.82	0.00	0.00	1419		15.82	22306.2	26321.32	26321	0.00		15.82	0.00	0.00	
60	P/F Chain link fencing 2.4fm height complete in all respects including posts/struts etc as per directions of EIC	250	Rmtr	4063.48	1015869.57	1198726.09	200	Rmtr	4063.48	1015870	1198726.60	1	234.20	Rmtr	4063.48	951867.02	1122967.06	
61	Providing water supply and sanitary fitting including testing and allied accessories ie W C (European/ Indian) Urinal Pots,Cisteren, Wash Basin, Sink, GI pipes of required size, C I Pipe 100mm dia, C I Pipe 75mm dia, Collars,sockets,bends,sewel rats, PVC water tank 2x1500Ltr Capacity (Sintex Make), CP Bib cocks, CP stop cock, Looking mirror, Pillar cock, soap dispenser, floor traps , P-traps , CP waste and waste pipes ,septic tank and soak pit,man holes at suitable distances as per IS Specifications , man hole covers adding any other items required to put in use the system, then testing and commissioning the system complete in all respect (As per relevant IS Codes and specifications) and as per directions of EIC	1	Job	580509.57	580509.57	685001.29	1	Job	580509.57	580509.57	685001.29	0	1.00	Job	580509.57	580509.57	685001.29	
62	Providing Bore Well 150 mm Dia with 50 mm delivery pipes having 3 LPS capacity submersible Pump of approved manufacturer. Two points at Sub Station site as per approved Drawings and one Point adjacent to Sub Station Building for connecting overhead tank with pipe of suitable size shall be provided. Bore Well depth shall be sufficient below draw down curve to meet minimum six hours water requirement. Four nos 10 mm long each fire fighting flexible reinforced pipe 50 mm dia along with coupling and two nos. injector suitable for connecting with 50 mm dia Fire Fighting Pipe shall be provided.The above arrangement should be housed in 9x3 sq	1	Job	928815.65	928815.65	1096002.47	1	Job	928815.65	928815.65	1096002.47	0	0.00	Job	928815.65	0.00	0.00	
63	Supplying and erection of Dewatering Pumps of ISI approved brand i.e. Kirloskar, Havells or equivalent and as per directions of EIC				0.00	0.00				0	0.00	0				0.00	0.00	
a	0.50HP	1	No	5805.22	5805.22	6850.16	1	No	5805.22	5805.22	6850.16	0	2.00	No	5805.22	11610.44	13700.32	30-10-2023
b	2.00HP	1	No	11610.43	11610.43	13700.31	1	No	11610.43	11610.43	13700.31	0	2.00	No	11610.43	23220.86	27400.61	30-10-2023
c	3.00HP	1	No	23220.00	23220.00	27399.60	1	No	23220.00	23220	27399.60	0	0.00	No	23,220.00	0.00	0.00	
d	5.00HP	2	Nos	58051.30	116102.61	137001.08	2	Nos	58051.30	116102.6	137001.07	0	0.00	Nos	58051.30	0.00	0.00	
64	Providing and fixing on wall face C I Rain water pipes including fitting the joints with spun yarn and cement mortar 1:2 (1 cement: 2 sand) 100 mm dia	200	Rmtr	928.70	185739.13	219172.17	200	Rmtr	928.70	248891.6	293692.09	74520	0.00	Rmtr	928.70	0.00	0.00	
65	Providing corrugated G I Sheet roofing fixed with galvanized iron J or L hooks bolts and nuts 8 mm dia meter with bitumen and G.I. Limpet washers filled with white lead complete excluding the cost of purlins rafters and trusses- 0.63mm thick sheet	1500	sqm	928.70	1393043.48	1643791.30	0	sqm	928.70	0	0.00	-1643791	0.00	sqm	928.70	0.00	0.00	
66	Providing ridges or hips 60 cm. Over all in plain with galvanised iron G.I. Sheet fixed J or L hooks bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete 0.63mm thick sheet	200	Rmtr	928.70	185739.13	219172.17	0	Rmtr	928.70	0	0.00	-219172	0.00	Rmtr	928.70	0.00	0.00	

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67	Providing and fixing 15 cm. Wide 45 cm. Overall semicircular pain G.I. Sheet gutter with iron brackets 40x3 mm size bolts and nuts and washers etc. including making necessary connections with rain water pipe complete as per design-0.63mm thick sheet	200	Rmtr	928.70	185736.13	219172.17	0	Rmtr	928.70	0	0.00	-219172	0.00	Rmtr	928.70	0.00	0.00	
68	Applying modrent solution on new G.I sheet for preparation of surface for painting @ 5 litres/100 sqm of surface and rubbing the solution with brush including thoroughly cleaning the surface of all oil grease dirt and other foreign matter	1500	sqm	116.52	174782.61	206240.46	0	sqm	116.52	0	0.00	-206240	0.00	sqm	116.52	0.00	0.00	
69	Painting two or more coats on G.I sheets with readymix paint of approved brand and manufacture on new work to give an even shade with readymixed paint	1500	sqm	232.17	348260.97	410947.83	0	sqm	232.17	0	0.00	-410948	0.00	sqm	232.17	0.00	0.00	
70	External water supply from bore well to fire water tank and control room building				0.00	0.00				0	0.00	0				0.00	0.00	
a	80mm dia ,Medium Grade as per IS 1239	250	Rmtr	696.52	174130.43	205473.91	250	Rmtr	696.52	174130	205473.40	-1	0.00	Rmtr	696.52	0.00	0.00	
b	25mm Medium Grade as per IS 1239	200	Rmtr	464.35	92869.57	109586.09	200	Rmtr	464.35	92870	108598.80	1	44.40	Rmtr	326.25	14485.67	17093.09	19-05-2023
71	External sewerage system including all items such as gully traps, gali chambers, joints, man hole covers, air vent pipes/ cowls for septic tank and soak pits etc and testing and commissioning complete in all respects excluding soak pit and septic tank, as per directions of EIC	1	job	580509.57	580509.57	685001.29	1	job	580509.57	580509.57	685001.29	0	1.00	job	580509.57	580509.57	685001.29	
72	P/L CI pipes including all pipe fittings and jointing in required grade for external sewerage system.				0.00	0.00				0	0.00	0				0.00	0.00	
a	150 mm	200	Rmtr	1160.87	232173.91	273965.22	200	Rmtr	1160.87	232174	273965.32	0	267.01	Rmtr	1160.87	309863.90	365767.40	
b	100 mm	50	Rmtr	870.43	43521.74	51355.65	50	Rmtr	870.43	43521.5	51355.37	0	6.00	Rmtr	822.78	4936.66	5825.25	11-09-2023
73	P/L PVC pipe 300 mm dia complete in all respects as directed by EIC	20	Rmtr	2321.74	46434.78	54793.04	20	Rmtr	2321.74	46434.8	54793.06	0	20.00	Rmtr	2321.74	46434.80	54793.06	
				464.35	0.00	0.00				0	0.00	0				0.00	0.00	
74	P/L 100 mm dia PVC pipes as per directions of EIC in weep holes of retaining/breast walls etc	400	Rmtr	464.35	185739.13	219172.17	960	Rmtr	464.35	260036	306842.48	87870	560.00	Rmtr	464.35	260036.00	306842.48	
	P/L 100 mm dia PVC pipes as per directions of EIC in weep holes of retaining/breast walls etc			198.19	0.00	0.00	476.81		198.19	94458.001	111458.15	111458	118.89		423.06	50368.75	59435.13	24-06-2023
75	P/L Extra heavy water proofing treatment on the top slabs including grouting with slurry, laying cement concrete using broken bricks/bats, water proofing compound conforming to IS 2645 Hot bitumen, Pea size gravel, tile terracing as per technical specifications and as per directions of EIC	475	sqm	1160.87	551413.04	650667.36	475	sqm	1160.87	551413.25	650667.64	0	0.00	sqm	1160.87	0.00	0.00	
76	Providing and fixing 18mm thick 150mm wide cor veneer board painet ISI marked with top cover of 6mm cor veneer board with 25 mm diameter curtain roads and brackets including fixing 25 x 3 mm M.S. flat at 10 cm. Long and plugs etc with complete in all respects and as per directions of EIC	100	Rmtr	1160.87	116086.96	136982.61	100	Rmtr	1160.87	116087	136982.66	0	0.00	Rmtr	1160.87	0.00	0.00	
77	Providing,fixingand jointing 230mm wideand 10mm thick PVC water stop seal conforming to ISI Technical specifications and directions of EIC	200	Rmtr	1160.87	232173.91	273965.22	200	Rmtr	1160.87	232174	273965.32	0	0.00	Rmtr	1160.87	0.00	0.00	
78	Wire crates of G.I. Wire filled with boulders with square cut faces against the (wire crates to be measured and paid for separately)	470	cum	2321.74	1091217.39	1287836.52	632.81	cum	2321.74	1469220.289	1733679.94	445843	625.01	cum	2321.74	1451110.72	1712310.65	
79	G.I. Wire 4 mm thick corresponding to SWG-8 15cmx15cm mesh	1875	sqm	348.70	653804.35	771489.13	2571.42	sqm	348.70	896746.364	1058520.70	286932	2500.00	sqm	348.70	871750.00	1028665.00	
				1160.87	0.00	0.00				0	0.00	0				0.00	0.00	
80	Providing and fixing Under Deck Insulation conforming to ISI Technical Specifications complete in all respect as per directions of EIC	125	sqm	1160.87	145108.75	171228.33		sqm	1160.87	0	0.00	-171228	0.00	sqm	1160.87	0.00	0.00	
81	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge)	500	Rmtr	1741.74	870869.57	1027626.09	500	Rmtr	1741.74	870870	1027626.60	1	246.48	Rmtr	784.24	193299.98	228093.97	23-06-2023
82	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory comparison, of approved size, design & shape, laid in required colour and pattern over and including 30mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge	1000	sqm	696.52	696521.74	821895.65	1000	sqm	696.52	696520	821893.60	-2	115.11	sqm	1,880.22	193410.64	228224.56	15-03-2023
83	White washing with lime on undercoated wall surfaces two coats to give and even shade including throughly brooming the surface to remove all dirt dust mortar dirt and other foreign matter	1000	sqm	116.52	116521.74	137495.65	1000	sqm	116.52	116520	137493.60	-2	328.48	sqm	11.03	3601.11	4249.31	11-09-2023
84	Anti Termite chemical treatment as per IS :6313 and other relavent Indian standards/ Technical specifications and as per directions of EIC	1	job	406356.52	406356.52	479500.70	1	job	406356.52	406356.52	479500.69	0	1.00	job	406356.52	406356.52	479500.69	

General Manager (C&D)
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86	Any other items required for completion of work add yourself as this schedule is binding and final with no hidden items whatsoever to be done is NOT payable for civil work as extra as per final discretion of Engineer In Charge				0.00	0.00				0	0.00	0				0.00	0.00	
Extra Item	Providing and fixing 0.60mm thick prepainted steel sheet in roofing with hot dipped metallic zinc coated sheet with top coat of regular modified polyster (RNP) orghanic coating of 20 microns over 5 microns primer coating to back coat of polyster of 5 microns over 5 microns primmer coating including fixing with prepainted iron J or L hooks, bolts and nuts 6mm diameter with prepainted limpet and rubber washers complete with all accessories as require as per the direction of Engineer-in-charge		sqm	850.00	0.00	0.00	1752.55	sqm	850.00	1489650.5	1757787.59	1757788	1777.02	sqm	850.00	1510687.00	1762351.06	
Extra Item	Providing and fixing ridges or hips 60 cm overall with 0.60 mm thick prepainted steel sheets in roofing with hot dipped metallic zinc coated sheets with top coat of regular modified polyster organic coating of 20 mic rons over 5 microns primer coating + back coat of polyster of 5 microns over 5 microns primer coating including fixing with prepainted iron J or L hooks, bolts and nuts 6mm dia and prepainte GI limpet and bitumen washers complete with all accessories as required as per the direction of Engineer -in- charge	0	mtr	850.00	0.00	0.00	197.7	mtr	850.00	168045	198293.10	198293	188.99	mtr	850.00	160565.00	189486.70	
Extra Item	Providing and fixing 15 cm. Wide 45 cm. Overall semicircular prepainted steel Sheet gutter with iron brackets 40x3 mm size bolts and nuts and washers etc. including making necessary corrections with rain water pipe complete as per design-0.60mm thick sheet.	0	mtr	580.00	0.00	0.00	223.08	mtr	580.00	129386.4	152675.95	152676	49.30	mtr	580.00	28594.00	33740.92	
						146850435.72					200100568					0.00	184832548	
	Deviation wrt Amendment No.3																-1528803	

General Manager (C&D)
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ANNEXURE-4B

HPPTCL-PRJ0F66/1/2025-CONTRACTS-HPPTCL HO

I/697357/2025

H P POWER TRANSMISSION CORPORATION LTD.

(A State Govt. Undertaking)
Regd. Office: Himfed Bhawan, New ISBT Road, Panjari, Shimla-171005
Ph.: 0177-2831283, 2831284 FAX: 0177-2831284
(CIN):U40101HP2008SGC030950
(GSTIN):02AACCH1548M1ZP
Web: - www.hpptcl.com

To

M/S Kanohar Electrical Limited
Rithani, Delhi Road, Meerut
Uttar Pradesh, India

Subject: 17-SS/KfW/HPPTCL/33/220kV Addl Charor S/stn; **Regarding issuance of Amendment no. 6 thereof.**

Reference: Notification of Award issued to M/s Kanohar Electricals Ltd. vide letter no. HPPTCL/Contracts/KfW/33/220kV Addl Charor S/stn/2018-2019- 15697-15704 dated 08.03.2019.

Dear Sir,

With reference to the subject cited matter, it is intimated that Amendment No. 6 (Final Amendment) is being issued on account of actual quantities executed at site of 220/33kV GIS Addl. Charor S/Stn.

The abstract of Amendment is as under: -

Sr. No.	Title	Total Amount with GST as per Original Award	Total Amount with GST as per Amendment No. 6
		(in INR)	(in INR)
1	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country	32,48,44,741.13	32,35,53,809.89
2	Design Services	59,000.00	59,000.00
3	Installation and other Services including civil works	3,41,65,366.00	2,34,89,635.66
4	Training Charges	5,31,000.00	5,31,000.00
	Total	**35,96,00,107.13**	**34,76,33,445.55**

Above rates are inclusive of all Taxes and duties, no extra payment on account of taxes shall be made.

The detailed sheets with respect to the Amendment no. 6 are enclosed herewith. It is requested to acknowledge the acceptance of this amendment so that same may be submitted to the funding agency i.e. M/s KfW.

All other terms and conditions of contract agreement shall remain unchanged.

25/9/25

DGM (Contracts)
HPPTCL, Shimla.

Copy to following for information please:

1. The GM (C&D), HPPTCL, Himfed Bhawan, Panjari Shimla.
2. The GM (Projects), HPPTCL, Himfed Bhawan, Panjari Shimla.

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3. The DGM (Projects), HPPTCL, Kullu Zone, H.P.
4. The DGM & HEAD (Transmission Design), HPPTCL, Anu, Hamirpur.
5. The DGM (Finance), HPPTCL, Himfed Bhawan, Panjari Shimla.
6. The Sr. Manager (Projects), PIU Sarabai, HPPTCL, Kullu, H.P.
7. The Team Leader, AECOM Asia Company Ltd, Shimla, H.P.

H.P. POWER TRANSMISSION CORPORATION LIMITED
HPPTCL

General Manager (C&D)
HPPTCL, Shimla-5

4.B.2

TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor S/Stn

GRAND SUMMARY

Name of Firm:		M/s Kanohar Electricals Limited in Collaboration with M/s Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan)									
		As per Original Award			As per Amendment No. 5		As per Amendment No. 6			Deviation w.r.t. Original Award Amount including GST	Remarks
Sr. No.	Title	Ex-Works Price	GST @18%	Total Amount With GST	Ex-Works Price	Total Amount With GST	Ex-Works Price	GST @18%	Total Amount With GST		
		In INR	In INR	In INR	In INR	In INR	In INR	In INR	In INR	In INR	
1	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country	27,52,92,153.50	4,95,52,587.63	32,48,44,741.13	27,41,98,143.97	32,35,53,809.89	27,41,98,143.97	4,93,55,665.92	32,35,53,809.89	-12,90,931.24	As per Annexure-1
2	Design Services	50,000.00	9,000.00	59,000.00	50,000.00	59,000.00	50,000.00	9,000.00	59,000.00	0.00	As per Annexure-2
3	Installation and other Services including civil works	2,89,53,700.00	52,11,666.00	3,41,65,366.00	2,25,50,738.12	2,66,09,870.98	1,99,06,470.90	35,83,164.76	2,34,89,635.66	-1,06,75,730.34	As per Annexure-3
4	Training Charges	4,50,000.00	81,000.00	5,31,000.00	4,50,000.00	5,31,000.00	4,50,000.00	81,000.00	5,31,000.00	0.00	As per Annexure-4
	Total	30,47,45,853.50	5,48,54,253.63	35,96,00,107.13	29,72,48,882.09	35,07,53,680.87	29,46,04,614.88	5,30,28,830.68	34,76,33,445.55	-1,19,66,661.58	

AECC)

General Manager (C&D)
HPPTCL, Shimla-5

4.8.3

TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor S/Stn

PLANT AND MANDATORY SPARE PARTS SUPPLIED FROM WITHIN THE EMPLOYER'S COUNTRY

SCHEDULES OF QTY AND PRICES

Name of Firm: M/s Kanohar Electricals Limited in Collaboration with M/s Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan)

Item	Description	As per Original Award							As per Amendment No. 1					As per Amendment No. 2 & 3					As per Amendment No. 4 (Supply Closure)				
		Unit	Qty.	Unit Price[1] (INR)	Total Price[1] (INR)	Goods and Service Tax Rate	Goods and Service Tax Amount	Total Amount Including GST	Qty.	Total Price[1] (INR)	Goods and Service Tax Rate	Goods and Service Tax Amount	Total Amount Including GST	Qty.	Total Price[1] (INR)	Goods and Service Tax Rate	Goods and Service Tax Amount	Total Amount Including GST	Qty.	Total Price[1] (INR)	Goods and Service Tax Rate	Goods and Service Tax Amount	Total Amount Including GST
1	POWER TRANSFORMER & STATION TRANSFORMER																						
i	26.66/33.33 MVA, 11.55/220 kV, ONAN / ONAF, Single-phase Power Transformer including 220 kV and 33 kV water suaving complete with all accessories including Fibre Optic Temperature Measuring System and first oil filling with 10% extra oil with RTCC panel complete in all respects. (Tertiary at 11 kV shall not be loaded)	Nos.	4	34750000.00	137000000.00	18.00%	24660000.00	161660000.00	4	137000000	18.00%	24660000	161660000	4	137000000	18.00%	24660000	161660000	4	137000000	18.00%	24660000	161660000
ii	Online DGA Set	Nos.	4	2160000.00	8640000.00	18.00%	1555200.00	10195200.00	4	8640000	18.00%	1555200	10195200	4	8640000	18.00%	1555200	10195200	4	8640000	18.00%	1555200	10195200
iii	Insulating Oil Dry-out System for Main + OLTC Tank	Nos.	4	900000.00	3600000.00	18.00%	648000.00	4248000.00	4	3600000	18.00%	648000	4248000	4	3600000	18.00%	648000	4248000	4	3600000	18.00%	648000	4248000
iv	Nitrogen injection fire prevention and extinguishing system complete in all respects	Nos.	4	1440000.00	5760000.00	18.00%	1036800.00	6796800.00	4	5760000	18.00%	1036800	6796800	4	5760000	18.00%	1036800	6796800	4	5760000	18.00%	1036800	6796800
v	250 kVA, 33/0.4 kV, 3-Phase Station Auxiliary Transformer including 33 kV SF6 to cable termination, cable box for LT termination, accessories and first oil filling with 10% extra oil	No	1	1054000.00	1054000.00	18.00%	189720.00	1243720.00	1	1054000	18.00%	189720	1243720	1	1054000	18.00%	189720	1243720	1	1054000	18.00%	189720	1243720
2	220 KV GIS EQUIPMENT																						
i	EXTENSION OF EXISTING BUS BAR SYSTEM (for existing both buses)	Set	1	1000000.00	1000000.00	18.00%	180000.00	1180000.00	1	1000000	18.00%	180000	1180000	1	1000000	18.00%	180000	1180000	1	1000000	18.00%	180000	1180000
	245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds SF6 gas insulated, metal enclosed bus bars required to interconnect transformer bay module with existing Double Main Bus System along with all required accessories etc complete in all respects including adaptor for interconnection with existing Bus																						
ii	TRANSFORMER CIRCUIT BREAKER BAY MODULE	Set	1	31810000.00	31810000.00	18.00%	5725800.00	37535800.00	1	31810000	18.00%	5725800	37535800	1	31810000	18.00%	5725800	37535800	1	31810000	18.00%	5725800	37535800
	245 kV, 2000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF6 Gas Insulated Transformer Circuit Breaker Bay Module each comprising of SF6 Gas Insulated Circuit Breaker (2000 A), Current Transformers (Ratio: 600-300 / 1 - 1 - 1 - 1 - 1 A), Isolator / Disconnector Switches (2000 A) combined with Safety Earth Switch complete with Manual and Motor Driven Operating Mechanisms, Local Control Cubicle (LCC), SF6 Gas Monitoring System for complete Bay, Single Phase SF6 Ducts and Gas Insulated Terminal Connection (GFS / Air Interface along with all Accessories) for connecting 80/100 MVA, Single-phase Power Transformers Bank with 220 kV GIS through Gas Insulated Interconnection Bus and Accessories etc complete in all respects																						
iii	245 KV AUXILIARY BUS BAY MODULE FOR SPARE TRANSFORMER	Set	1	19548900.00	19548900.00	18.00%	3518802.00	23067702.00	1	19548900	18.00%	3518802	23067702	1	19548900	18.00%	3518802	23067702	1	19548900	18.00%	3518802	23067702
	245 kV, Single Phase, 2000 A, 50 kA for 3.0 seconds, Auxiliary Bus Bar Enclosure running across the length of the Switchgear to interconnect Bus Spare Unit of 11.00 / 220 kV, Single Phase Power Transformers Bank with 220 kV GIS, Transformer Bay Module through GIS Duct having Single Phase, 2000 A, SF6 Gas Breaker, single phase Current Transformers (Ratio: 600 - 300 / 1 - 1 - 1 - 1 - 1 A), Single Pole operated 2000 A Safety Grounding Switches complete with Manual and Motor Driven Operating Mechanism, Local Control Cubicle (if required), SF6 Gas Monitoring System for complete Bay, Single Phase GIS Duct, 2000 A and Gas Insulated Terminal Connection (GFS / Air Interface along with all Accessories) for connecting Spare Single Phase Power Transformer with GIS through Gas Insulated Interconnection Bus and Accessories etc complete in all respects																						

4.8.14

General Manager (C&D)
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Item	Description	Unit	Qty.	Unit Price	Total Price	Goods and Service Tax		Total Amount including GST	Qty.	Total Price	Goods and Service Tax		Total Amount including GST	Qty.	Total Price	Goods and Service Tax		Total Amount including GST	Qty.	Total Price	Goods and Service Tax		Total Amount including GST
				(INR)	(INR)	Rate	Amount			(INR)	Rate	Amount			(INR)	Rate	Amount			(INR)	Rate	Amount	
	New Item Added														0		0	0		0		0	0
iv	220kV GIS Single Phase Bus Duct including Support Structure	Mtrs	0	83000	0.00	18.00%	0.00	0.00	137.3	11395900	18.00%	2051262	13447162	137.3	11395900	18.00%	2051262	13447162	137.3	11395900	18.00%	2051262	13447162
3	33 KV GIS EQUIPMENT														0		0	0		0		0	0
i	BUS BARS MODULE	Sets	2	1000000.00	2000000.00	18.00%	360000.00	2360000.00	2	2000000	18.00%	360000	2360000	2	2000000	18.00%	360000	2360000	2	2000000	18.00%	360000	2360000
	36 kV, 3150 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, 3 single phase (Isolated) Unit, SF6 gas insulated, metal enclosed bus bars, each enclosed in bus enclosures running along the length of the switchgear to interconnect each of the circuit breaker bay module in Double Main Bus System. Each bus bar set shall be complete with Voltage Transformers (VTs) complete with isolator / disconnector cum earth switches and safety grounding switch all complete with manual and motor driven operating mechanisms, LCC, GIS Duct with SF6 gas monitoring system and accessories etc complete in all respects																						
ii	BUS COUPLER BAY MODULE	Set	1	3750000.00	3750000.00	18.00%	675000.00	4425000.00	1	3750000	18.00%	675000	4425000	1	3750000	18.00%	675000	4425000	1	3750000	18.00%	675000	4425000
	36 kV, 3150 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 gas insulated bus coupler bay module comprising of vacuum circuit breaker (3150 A), current transformers (Ratio 3000-1600 / 1 - 1 - 1 - 1 A), bus bar isolator / disconnector switches (3150 A) combined with safety grounding switches complete with manual and motor driven operating mechanism, local control cubicle LCC, GIS Duct with SF6 gas monitoring system and accessories etc complete in all respects																						
iii	TRANSFORMER CIRCUIT BREAKER BAY MODULE:	Sets	1	3750000.00	3750000.00	18.00%	675000.00	4425000.00	1	3750000	18.00%	675000	4425000	1	3750000	18.00%	675000	4425000	1	3750000	18.00%	675000	4425000
	36 kV, 2500 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 gas insulated transformer bay module each comprising of vacuum circuit breaker current transformers (Ratio: 2000-1000 / 1 - 1 - 1 - 1 A), isolator / disconnector switches (2500 A) combined with safety earth switch complete with manual and motor driven operating mechanisms, local control cubicle SF6 gas monitoring system for complete bay, single phase SF6 ducts and SF6 / cable connecting termination arrangement to connect 80/100 MVA, 33/220 KV, single phase Power Transformer bank and accessories etc complete in all respects																						
iv	36 KV AUXILIARY BUS BAY MODULE FOR SPARE TRANSFORMER	Set	1	3750000.00	3750000.00	18.00%	675000.00	4425000.00	1	3750000	18.00%	675000	4425000	1	3750000	18.00%	675000	4425000	1	3750000	18.00%	675000	4425000
	Single Phase, 2500 A, 31.5 kA for 3.0 seconds, Auxiliary Bus Bar Enclosure running across the length of the Switchgear to interconnect the Spare Unit of 11/33 / 220 kV Single Phase Power Transformers Bank with 33 kV GIS, Transformer Bay Module through GIS Duct, having Single Pole, 3150 A, vacuum Breaker, current transformers (Ratio 2500-1000 / 1 - 1 - 1 - 1 A), Single Pole operated (2500A) Safety Grounding Switches complete with Manual and Motor Driven Operating Mechanism, Local Control Cubicle, SF6 Gas Monitoring System for complete Bay, Single Phase GIS Duct (3150 A) and Gas Insulated Terminal Connection (SF6 / cable interface along with all Accessories) for connecting Spare Single Phase Power Transformer with GIS through Gas Insulated Interconnection Bus and Accessories etc complete in all respects																						
v	36 KV STATION TRANSFORMER BAY MODULE	Set	1	3750000.00	3750000.00	18.00%	675000.00	4425000.00	1	3750000	18.00%	675000	4425000	1	3750000	18.00%	675000	4425000	1	3750000	18.00%	675000	4425000

4.8.5

General Manager (C&D)
HPPTCL, Shimla-5

Item	Description	Unit	Qty.	Unit Price (INR)	Total Price (INR)	Goods and Service Tax Rate	Goods and Service Tax Amount	Total Amount including GST	Qty.	Total Price (INR)	Goods and Service Tax Rate	Goods and Service Tax Amount	Total Amount including GST	Qty.	Total Price (INR)	Goods and Service Tax Rate	Goods and Service Tax Amount	Total Amount including GST	Qty.	Total Price (INR)	Goods and Service Tax Rate	Goods and Service Tax Amount	Total Amount including GST
	36 kV, 630 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 Gas Insulated Feeder Bay Module comprising of Vacuum Circuit Breaker (630 A) isolator / disconnector switches combined with safety grounding switches, Current Transformers (Ratio 30-15 / 1 - 1 - 1 - 1 A), Local Control Cubicle (if required), single phase SF6/ cable termination with SF6 Gas Monitoring System and Accessories etc. complete in all respects (excluding the cost of XLPE cable & termination kits)																						
vi	TRANSMISSION LINE FEEDER BAY MODULE	Sets	2	3750000.00	7500000.00	18.00%	1350000.00	8850000.00	2	7500000	18.00%	1350000	8850000	2	7500000	18.00%	1350000	8850000	2	7500000	18.00%	1350000	8850000
	36 kV, 2000 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 Gas Insulated Transmission Line Feeder Bay Module each comprising of vacuum Circuit Breaker (2000 A), Current Transformers (Ratio 1200-600-300/1 - 1 - 1 - 1 A), Isolator / Disconnectors (2000 A) Switches with combined Earth Switch complete with Manual and Motor Driven Operating Mechanisms, High Speed Fault Making Grounding Switch complete with group operated Manual and Motor Driven Operating Mechanism, Local Control Cubicle, SF6 Gas Monitoring System for complete Bay, GIS Duct and cable / SF6 Bushing Termination Enclosure and Accessories complete in all respects																						
4	220 KV OUT DOOR EQUIPMENT																						
i	198 kV, Single Phase Zinc Oxide Gapless Surge Arrester with insulating base, surge counter and leakage meter	Nos	4	62500.00	250000.00	18.00%	45000.00	295000.00	4	250000	18.00%	45000	295000	4	250000	18.00%	45000	295000	4	250000	18.00%	45000	295000
5	33 KV OUT DOOR EQUIPMENT																						
i	30 kV Zinc Oxide Gapless Surge Arrestor with insulating base, counter and leakage meter	Nos	12	18750.00	225000.00	18.00%	40500.00	265500.00	12	225000	18.00%	40500	265500	13	243750	18.00%	43875	287625	13	243750	18.00%	43875	287625
ii	33 KV, 1250A Isolator with earth switch motor operated complete with Structures and foundation bolts	Nos	2	187500.00	375000.00	18.00%	67500.00	442500.00	2	375000	18.00%	67500	442500	2	375000	18.00%	67500	442500	2	375000	18.00%	67500	442500
iii	33 kV Outdoor PT, 33 kV /√3 / 110 V /√3, class 3P(3cores)	Set	2	62500.00	125000.00	18.00%	22500.00	147500.00	2	125000	18.00%	22500	147500	0	0	18.00%	0	0	0	0	18.00%	0	0
6	220 kV & 33 kV SUPER STRUCTURES and 220 KV& 33 KV EQUIPMENT STRUCTURES: Note:- Steel grade C shall be used.																						
i	220 kV Galvanized Super Structures comprising gantries and columns																						
ii	220 kV Galvanized Equipment structures for CVT, LA, Isolators and Post insulators	MT	40	93750.00	3750000.00	18.00%	675000.00	4425000.00	40	3750000	18.00%	675000	4425000	40	3750000	18.00%	675000	4425000	15.39045062	1442854.746	18.00%	259713.8543	1702568.6
iii	33 kV Galvanized Super Structures comprising gantries and columns including Transformer Bay for LV Bus and Neutral Bus																						
iv	33 kV Galvanized Equipment Structures for PT and LA																						
v	33 kV Galvanized Structure for Station Transformer																						
vi	Nuts & Bolts including Foundation Bolts	MT	6	118750.00	712500.00	18.00%	128250.00	840750.00	6	712500	18.00%	128250	840750	6	712500	18.00%	128250	840750	2.18452	259411.75	18.00%	46694.115	306105.865
7	CONTROL RELAY AND PROTECTION PANELS																						
A	220 KV CONTROL RELAY PROTECTION PANEL																						
i	Transformer Protection Control and Relay Panel (HV side of 26.66/33.33 MVA, 33 / 220 kV single-phase Power Transformers bank)	No	1	1500000.00	1500000.00	18.00%	270000.00	1770000.00	1	1500000	18.00%	270000	1770000	1	1500000	18.00%	270000	1770000	1	1500000	18.00%	270000	1770000
ii	Transformer Protection Control and Relay Panel for single phase spare transformer (HV side of 26.66/33.33 MVA, 11/33 / 220 kV single-phase Power Transformer)	No	1	1500000.00	1500000.00	18.00%	270000.00	1770000.00	1	1500000	18.00%	270000	1770000	1	1500000	18.00%	270000	1770000	1	1500000	18.00%	270000	1770000
B	33 KV RELAY PROTECTION PANEL																						
i	Bus coupler Control Relay and Protection Panel	No.	1	625000.00	625000.00	18.00%	112500.00	737500.00	1	625000	18.00%	112500	737500	1	625000	18.00%	112500	737500	1	625000	18.00%	112500	737500
ii	Bus Bar Control Relay and Protection Panel	No.	1	625000.00	625000.00	18.00%	112500.00	737500.00	1	625000	18.00%	112500	737500	1	625000	18.00%	112500	737500	1	625000	18.00%	112500	737500
iii	Transformer Protection Control and Relay Panel (LV side of 26.66/33.33 MVA, 11/33/220 kV single-phase Power Transformers bank)	No.	1	625000.00	625000.00	18.00%	112500.00	737500.00	1	625000	18.00%	112500	737500	1	625000	18.00%	112500	737500	1	625000	18.00%	112500	737500
iv	33 kV Line Feeder Protection, Control and Relay Panels	Nos	2	625000.00	1250000.00	18.00%	225000.00	1475000.00	2	1250000	18.00%	225000	1475000	2	1250000	18.00%	225000	1475000	2	1250000	18.00%	225000	1475000
v	33 kV Control & Protection Relay panel for station Transformer	No	1	625000.00	625000.00	18.00%	112500.00	737500.00	1	625000	18.00%	112500	737500	1	625000	18.00%	112500	737500	1	625000	18.00%	112500	737500

4.8.6

General Manager (C&D)
HPPTCL, Shimla-5

Item	Description	Unit	Qty.	Unit Price (INR)	Total Price (INR)	Goods and Service Tax Rate	Goods and Service Tax Amount	Total Amount Including GST	Qty.	Total Price (INR)	Goods and Service Tax Rate	Goods and Service Tax Amount	Total Amount Including GST	Qty.	Total Price (INR)	Goods and Service Tax Rate	Goods and Service Tax Amount	Total Amount Including GST	Qty.	Total Price (INR)	Goods and Service Tax Rate	Goods and Service Tax Amount	Total Amount Including GST
vi	Transformer Protection, Control and Relay Panel (LV side of 25.66/33 MVA, 11/ 33/220 kV, simple phase Power Transformer)	No.	1	675000.00	675000.00	18.00%	112500.00	787500.00	1	675000	18.00%	112500	787500	1	675000	18.00%	112500	787500	1	675000	18.00%	112500	787500
9	VENTILATION SYSTEM																						
i	400 mm sweep exhaust fan with louvres without any filtration system	Nos.	5	53625.00	53625.00	18.00%	9652.50	63277.50	5	53625	18.00%	9652.5	63277.5	3	32175	18.00%	5791.5	37966.5	3	32175	18.00%	5791.5	37966.5
9	FIRE EXTINGUISHING SYSTEM (Portable Type)																						
i	CO2 Cylinders 22.5 Kg	Nos.	3	17500.00	52500.00	18.00%	9450.00	61950.00	3	52500	18.00%	9450	61950	3	52500	18.00%	9450	61950	3	52500	18.00%	9450	61950
ii	HCF-227 ea Clean Agent Fire Extinguisher (4 kg)	Nos.	2	5750.00	12500.00	18.00%	2250.00	14750.00	2	12500	18.00%	2250	14750	0	0	18.00%	0	0	0	0	18.00%	0	0
iii	DC class dry powder type fire extinguisher 22.5 Kg	Nos.	2	16250.00	32500.00	18.00%	5850.00	38350.00	2	32500	18.00%	5850	38350	2	32500	18.00%	5850	38350	2	32500	18.00%	5850	38350
iv	Foam type fire extinguisher 50 ltr	Nos.	4	9375.00	37500.00	18.00%	6750.00	44250.00	4	37500	18.00%	6750	44250	4	37500	18.00%	6750	44250	4	37500	18.00%	6750	44250
v	Fire buckets with stand (Set of 5)	Sets	2	15000.00	30000.00	18.00%	5400.00	35400.00	2	30000	18.00%	5400	35400	2	30000	18.00%	5400	35400	2	30000	18.00%	5400	35400
vi	Water Mist Trolley Mounted Fire Extinguisher (50 Ltr.)	Nos.	2	18787.50	37500.00	18.00%	6750.00	44250.00	2	37500	18.00%	6750	44250	2	37500	18.00%	6750	44250	0	0	18.00%	0	0
vii	Water Mist CAF Backpack (9 Ltr.)	Nos.	4	6250.00	25000.00	18.00%	4500.00	29500.00	4	25000	18.00%	4500	29500	4	25000	18.00%	4500	29500	0	0	18.00%	0	0
viii	Piping valves and other accessories for Hydrant System from the Pump House for 4 Nos. Single phase Power Transformers as per CBIP Publication No. 295 (Manual on Transformers). Only piping works and other necessary accessories required for water pumping / lifting from existing system. Pumps and Motors are existing at 132/220 kV GIS Substation Dharsi	Set	1	1250000.00	1250000.00	18.00%	225000.00	1475000.00	1	1250000	18.00%	225000	1475000	0	0	18.00%	0	0	0	0	18.00%	0	0
10	L.T. AND CONTROL CABLES																						
10.1	1.1 kV Grade PVC Insulated Aluminium Conductor Power Un-armoured along with Lugs, Glands, Straight Joints, Termination Kit etc																						
	(i) 3.5 Core, 120 Sq.mm Aluminium Conductor	KM	0.5	1174750.00	587375.00	18.00%	105727.50	693102.50	0.5	587375	18.00%	105727.5	693102.5	0.5	587375	18.00%	105727.5	693102.5	0.168	197610.5	18.00%	35569.89	233180.39
	(ii) 3.5 Core, 35 Sq.mm Aluminium Conductor	KM	0.1	153375.00	77687.50	18.00%	13983.75	91671.25	0.5	77687.5	18.00%	13983.75	91671.25	0.5	77687.5	18.00%	13983.75	91671.25	0.106	16469.75	18.00%	2964.555	19434.305
	(iii) 3.5 core, 400 Sqmm Aluminium cable	KM	0.3	1327500.00	398250.00	18.00%	71685.00	469935.00	0.3	398250	18.00%	71685	469935	0.3	398250	18.00%	71685	469935	0.017	22567.5	18.00%	4062.15	26629.65
10.2	Power Aluminium Cable (PVC) - (Un-Armoured)																						
	(i) 4 C x 25 sq. mm	km	1	170000.00	170000.00	18.00%	30600.00	200600.00	1	170000	18.00%	30600	200600	1	170000	18.00%	30600	200600	0	0	18.00%	0	0
10.3	Control Copper Cables (FRLS) - (Un-Armoured)																						
	(i) 2 C x 2.5 sq. mm	km	1	79875.00	79875.00	18.00%	14377.50	94252.50	1	79875	18.00%	14377.5	94252.5	1	79875	18.00%	14377.5	94252.5	0.726	57989.25	18.00%	10438.065	68427.315
	(ii) 4 C x 2.5 sq. mm	km	2	124750.00	249500.00	18.00%	44910.00	294410.00	2	249500	18.00%	44910	294410	2	249500	18.00%	44910	294410	1.143	142598.25	18.00%	25667.685	168265.935
	(iii) 7 C x 2.5 sq. mm	km	3.5	186375.00	652312.50	18.00%	117416.25	769728.75	3.5	652312.5	18.00%	117416.25	769728.75	3.5	652312.5	18.00%	117416.25	769728.75	1.67	311246.25	18.00%	56024.325	367270.575
	(iv) 10 C x 2.5 sq. mm	km	2.5	268000.00	670000.00	18.00%	120600.00	790600.00	2.5	670000	18.00%	120600	790600	2.5	670000	18.00%	120600	790600	1.515	406020	18.00%	73083.6	479103.6
	(v) 12 C x 2.5 sq. mm	km	2.0	339750.00	679375.00	18.00%	122287.50	801662.50	2.0	679375	18.00%	122287.5	801662.5	2.5	774375	18.00%	139387.5	913762.5	1.15	394212.5	18.00%	64118.25	429330.75
	(vi) 19 C x 2.5 sq. mm	km	3.5	459125.00	1606937.50	18.00%	289248.75	1896186.25	3.5	1606937.5	18.00%	289248.75	1896186.25	3.5	1606937.5	18.00%	289248.75	1896186.25	0.961	396306.625	18.00%	71155.1925	467461.8175
	(vii) 4 C X 4 sq.mm	km	1	171750.00	171750.00	18.00%	30915.00	202665.00	1	171750	18.00%	30915	202665	4.409	757354.5	18.00%	136323.81	893678.31	4.409	757354.5	18.00%	136323.81	893678.31
10.4	POWER CABLES (Armoured)																						
	(i) 33 kV Grade, 95 Sq.mm XLPE insulated SPB/CB Aluminium conductor single core cable with corrugated aluminium sheath for terminating 250 kVA, 33 / 0.4 kV Station Transformer along with Termination Kits	km	0.75	1508000.00	1125000.00	18.00%	202500.00	1327500.00	0.75	1125000	18.00%	202500	1327500	0.75	1125000	18.00%	202500	1327500	0.094	141300	18.00%	25434	166734
	(ii) 33 kV Grade, 1000 Sq.mm XLPE insulated SPB/CB Aluminium conductor single core cable with corrugated aluminium sheath for 33 kV Line Feeders and Transformer Feeder Bays along with Outdoor termination kits	km	1	2500000.00	2500000.00	18.00%	450000.00	2950000.00	1	2500000	18.00%	450000	2950000	1	2500000	18.00%	450000	2950000	0	0	18.00%	0	0
	(iii) 33 kV Grade, 630 Sq.mm XLPE insulated SPB/CB Aluminium conductor single core cable with corrugated aluminium sheath for 33 kV Line Feeders and Transformer Feeder Bays along with Outdoor termination kits	Km	3	1875000.00	5625000.00	18.00%	1012500.00	6637500.00	3	5625000	18.00%	1012500	6637500	3	5625000	18.00%	1012500	6637500	1.624	3045600	18.00%	548100	3593700
11	EARTH MAT & ASSOCIATED ACCESSORIES																						
	(i) M. S. Electrodes 35 mm dia	kg	280	63.00	17640.00	18.00%	3175.20	20815.20	280	17640	18.00%	3175.2	20815.2	280	17640	18.00%	3175.2	20815.2	1066	67158	18.00%	12088.44	79246.44
	(ii) M. S. Flat 40 x 6 mm for risers	kg	500	63.00	31500.00	18.00%	5670.00	37170.00	500	31500	18.00%	5670	37170	500	31500	18.00%	5670	37170	4214	265378.4	18.00%	47768.112	313146.512
	(iii) M.S. Rod 40 mm dia. for main earthmat	Nos	2	625000.00	1250000.00	18.00%	225000.00	1475000.00	2	1250000	18.00%	225000	1475000	2.04	1275000	18.00%	229500	1504500	2.14	1337500	18.00%	240750	1578250
	(iv) 75 x 12 mm G. S. Flat	kg	500	81.00	40500.00	18.00%	7290.00	47790.00	500	40500	18.00%	7290	47790	5397.1	5481868.1	18.00%	986736.258	6468604.358	7621.263	617522.553	18.00%	111154.0595	728446.9197
	(v) 50 x 6 mm G. S. Flat	kg	400	81.00	32400.00	18.00%	5832.00	38232.00	400	32400	18.00%	5832	38232	102.4	29491.4	18.00%	4408.992	29863.392	366.16	29648.96	18.00%	5336.8128	34041.7728
	(vi) Braided Copper 35 x 2 mm for double flexible risers from flat risers to equipment	mtr	300	1250.00	375000.00	18.00%	67500.00	442500.00	300	375000	18.00%	67500	442500	0	0	18.00%	0	0	0	0	18.00%	0	0
	New Item Added																						
xi	40mm dia. 3 mtr long GI pipe earth electrode in treated earth pit - 4 nos. (for HV & LV Neutral this earthing)	No	0	3681.00	0.00	18.00%	0.00	0.00	0	0	18.00%	0	0	4	14364	18.00%	2585.52	16949.52	4	14364	18.00%	2585.52	16949.52

4.B.7

General Manager (C&D)
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Item	Description	Unit	Qty	Unit Price (INR)	Total Price (INR)	Goods and Service Tax Rate	Goods and Service Tax Amount	Total Amount including GST	Qty	Total Price (INR)	Goods and Service Tax Rate	Goods and Service Tax Amount	Total Amount including GST	Qty	Total Price (INR)	Goods and Service Tax Rate	Goods and Service Tax Amount	Total Amount including GST	Qty	Total Price (INR)	Goods and Service Tax Rate	Goods and Service Tax Amount	Total Amount including GST
12	Miscellaneous Items, Earthing Material and Erection Hardware such as BPI, Insulator Strings, 120 kN Disc Insulator, Hardware, Spacers, ACSR Moose Conductor(s), Cable Trays, Clamps, Connectors including Equipment Connectors, Junction Box, Earthwire, Lightning Protection, Buried Cable Trenches / Pipes for Equipment and Lighting, Cable Sealing Arrangement, nuts and bolts including all Accessories etc for completion of Scope of Work. Any material required to connect the system proposed in the scope with existing Substation Automation System including OFC shall be in the scope of bidder.	Job	1	1250000.00	1250000.00	18.00%	225000.00	1475000.00	1	1250000	18.00%	225000	1475000	1	1250000	18.00%	225000	1475000	1	1250000	18.00%	225000	1475000
13	LT SWICTHGEAR																						
i	Main Switch Boards for 33 GIS as per Technical Specification, Section - 5 (ACDB)	Set	1	1000000.00	1000000.00	18.00%	180000.00	1180000.00	1	1000000	18.00%	180000	1180000	1	1000000	18.00%	180000	1180000	1	1000000	18.00%	180000	1180000
14	TERTIARY FORMATION																						
a)	Supply of material for delta & Neutral formation arrangement including conductor (TARATULLA), Post insulators (11 kV) with creepage distance 31.5 mm/kV, Steel Structures, Aluminium Tubes 3" size or Aluminium flat of suitable size, PVC tape for 11 kV voltage level for covering the conductors or Aluminium tube/flats, Disc or Pin insulators and NCTs, Hardware assemblies, connectors as required to complete the system (excluding civil works and cables)	Set	1	625000.00	625000.00	18.00%	112500.00	737500.00	1	625000	18.00%	112500	737500	0	0	18.00%	0	0	0	0	18.00%	0	0
b)	Alternative arrangement for Delta & Neutral formation arrangement with cables or any other arrangement (tertiary is unloaded)	job	1	125000.00	125000.00	18.00%	22500.00	147500.00	1	125000	18.00%	22500	147500	1	125000	18.00%	22500	147500	0	0	18.00%	0	0
15	ILLUMINATION SYSTEM																						
i	Supply of items for illumination with LED Luminaires in 33 kV GIS hall with PVC conduits including Luminaries, wires, Main Switches, distribution Boards etc. PVC Copper conductor cables, Conduits/Junction boxes, Main Switch Boards. The rates in above items shall cover all items required for illumination of 33 kV GIS Hall	Job	1	250000.00	250000.00	18.00%	45000.00	295000.00	1	250000	18.00%	45000	295000	1	250000	18.00%	45000	295000	1	250000	18.00%	45000	295000
	NOTE: The wire size shall not be less than 2.5 sq. mm. Copper Conductor. The cost of wires / cables to be used for wiring from Main Switch Board onwards shall be covered in this item.																						
16	ANY OTHER ITEM WHICH IN THE OPINION OF THE BIDDER IS ESSENTIAL AND HE MAY LIKE TO QUOTE																						
	New Items																						
i)	Bajaj Make 2X400W HPSV Floodlight fitting with control gear BICG 2*400W DD, 2 Nos HID Ballast 400W, 2 Nos 400W HPSV Lamp and Ignitor complete Cat Ref: BAJAJ_BGENT22R	No.	0	11679.75	0.00	18.00%	0.00	0.00	0	0	18.00%	0	0	5	58352.75	18.00%	10503.495	68857.425	5	58352.75	18.00%	10503.495	68857.425
ii)	BAJAJMAlx - 150W Metal Floodlight with 150W MH DE Lamp and 150W HID Ballast complete Cat Ref: BAJAJ 11 150W MH DE	No.	0	8450.15	0.00	18.00%	0.00	0.00	0	0	18.00%	0	0	2	10900.3	18.00%	1962.054	12862.354	2	10900.3	18.00%	1962.054	12862.354
iii)	33 kV Neutral NCT	No.	0	41040	0.00	18.00%	0.00	0.00	0	0	18.00%	0	0	1	41040	18.00%	7387.2	48427.2	1	41040	18.00%	7387.2	48427.2
iv)	33kV, 2500A, 25kA for 3 Sec, Single phase double break motor isolator without earth switch and with complete moving contact of HEIC, marshalling box and all accessories etc.	No.	0	62873	0.00	18.00%	0.00	0.00	0	0	18.00%	0	0	8	496584	18.00%	89385.12	585969.12	8	496584	18.00%	89385.12	585969.12
v)	5 Meter Length 3" IPS Aluminium Tube	Mtr	0	2638.7	0.00	18.00%	0.00	0.00	0	0	18.00%	0	0	78	159018.6	18.00%	28623.348	187641.948	78	159018.6	18.00%	28623.348	187641.948
vi)	4 Meter Length 3" IPS Aluminium Tube	Mtr	0	2638.7	0.00	18.00%	0.00	0.00	0	0	18.00%	0	0	16	32619.2	18.00%	5871.456	38490.656	16	32619.2	18.00%	5871.456	38490.656
vii)	Welding Sleeves for 3" IPS Aluminium Tube	Nos	0	4028	0.00	18.00%	0.00	0.00	0	0	18.00%	0	0	7	7182	18.00%	1292.76	8474.76	7	7182	18.00%	1292.76	8474.76
viii)	PTZ Camera Complete in all respects	No.	0	110010	0.00	18.00%	0.00	0.00	0	0	18.00%	0	0	1	110010	18.00%	19801.8	129811.8	1	110010	18.00%	19801.8	129811.8
ix)	Fixed Type Camera Complete in all respects	No.	0	9785	0.00	18.00%	0.00	0.00	0	0	18.00%	0	0	5	48925	18.00%	8806.5	57731.5	5	48925	18.00%	8806.5	57731.5
I	MANDATORY SPARES																						
1.1	MANDATORY SPARES FOR POWER TRANSFORMER																						
i	36 kV bushing complete with metal parts and gasket	No.	1	62500.00	62500.00	18.00%	11250.00	73750.00	1	62500	18.00%	11250	73750	1	62500	18.00%	11250	73750	1	62500	18.00%	11250	73750
ii	245 kV RIP bushing complete with metal parts and gasket	No	1	2000000.00	2000000.00	18.00%	360000.00	2360000.00	1	2000000	18.00%	360000	2360000	1	2000000	18.00%	360000	2360000	1	2000000	18.00%	360000	2360000
iii	Buchholz relay	No.	1	18750.00	18750.00	18.00%	3375.00	22125.00	1	18750	18.00%	3375	22125	1	18750	18.00%	3375	22125	1	18750	18.00%	3375	22125
iv	Winding Temperature Indicator (WTI)	Set	1	31250.00	31250.00	18.00%	5625.00	36875.00	1	31250	18.00%	5625	36875	1	31250	18.00%	5625	36875	1	31250	18.00%	5625	36875
v	Oil Temperature Indicator	Set	1	31250.00	31250.00	18.00%	5625.00	36875.00	1	31250	18.00%	5625	36875	1	31250	18.00%	5625	36875	1	31250	18.00%	5625	36875

4.8.8

General Manager (C&D)
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Item	Description	Unit	Qty.	Unit Price*	Total Price*	Goods and Service Tax		Total Amount Including GST	Qty.	Total Price*	Goods and Service Tax		Total Amount Including GST	Qty.	Total Price*	Goods and Service Tax		Total Amount Including GST	Qty.	Total Price*	Goods and Service Tax		Total Amount Including GST
				(INR)	(INR)	Rate	Amount			(INR)	Rate	Amount			(INR)	Rate	Amount			(INR)	Rate	Amount	
vi	Oil sampling steel bottles	Nos	3	12500.00	37500.00	18.00%	6750.00	44250.00	3	37500	18.00%	6750	44250	3	37500	18.00%	6750	44250	3	37500	18.00%	6750	44250
vii	Pressure relief device for main tank	No.	1	18750.00	18750.00	18.00%	3375.00	22125.00	1	18750	18.00%	3375	22125	1	18750	18.00%	3375	22125	1	18750	18.00%	3375	22125
viii	Magnetic Oil Level Gauge	No.	1	18750.00	18750.00	18.00%	3375.00	22125.00	1	18750	18.00%	3375	22125	1	18750	18.00%	3375	22125	1	18750	18.00%	3375	22125
ix	Pressure relief device for OLTC	No.	1	18750.00	18750.00	18.00%	3375.00	22125.00	1	18750	18.00%	3375	22125	1	18750	18.00%	3375	22125	1	18750	18.00%	3375	22125
x	Mic. free breather	No.	1	625000.00	625000.00	18.00%	112500.00	737500.00	1	625000	18.00%	112500	737500	1	625000	18.00%	112500	737500	1	625000	18.00%	112500	737500
2	COMMON SPARES, MAINTENACE TOOLS																						
2.1	33 KV GIS EQUIPMENT																						
i	SF_6 Gas Pressure Relief Devices 1 Nos. for each compartment	Set	1	23438.00	23438.00	18.00%	4218.84	27656.84	1	23438	18.00%	4218.84	27656.84	1	23438	18.00%	4218.84	27656.84	1	23438	18.00%	4218.84	27656.84
ii	Pressure Gauge along with Coupling Device	No.	1	17813.00	17813.00	18.00%	3206.34	21019.34	1	17813	18.00%	3206.34	21019.34	1	17813	18.00%	3206.34	21019.34	1	17813	18.00%	3206.34	21019.34
iii	Molecular Filter for SF_6 Gas with Filter Bags	Set of each type	1	27188.00	27188.00	18.00%	4893.84	32081.84	1	27188	18.00%	4893.84	32081.84	1	27188	18.00%	4893.84	32081.84	1	27188	18.00%	4893.84	32081.84
iv	SF6 Gas in 50 Litre Cylinders	Nos.	3	62500.00	187500.00	18.00%	33750.00	221250.00	3	187500	18.00%	33750	221250	3	187500	18.00%	33750	221250	3	187500	18.00%	33750	221250
2.2	220 kV GIS EQUIPMENT																						
i	SF_6 Gas Pressure Relief Devices for Gas compartment	No	1	25781.00	25781.00	18.00%	4640.58	30421.58	1	25781	18.00%	4640.58	30421.58	1	25781	18.00%	4640.58	30421.58	1	25781	18.00%	4640.58	30421.58
ii	Pressure Gauge along with Coupling Device	No.	1	19594.00	19594.00	18.00%	3526.92	23120.92	1	19594	18.00%	3526.92	23120.92	1	19594	18.00%	3526.92	23120.92	1	19594	18.00%	3526.92	23120.92
3	SPARES FOR CIRCUIT BREAKER																						
3.1	220 KV GIS CIRCUIT BREAKER																						
i	Trip Coils with Resistor as applicable	Nos	6	16500.00	99000.00	18.00%	17820.00	116820.00	6	99000	18.00%	17820	116820	6	99000	18.00%	17820	116820	6	99000	18.00%	17820	116820
ii	Closing Coils with resistor as applicable for each compartment	Nos.	3	13406.00	40218.00	18.00%	7239.24	47457.24	3	40218	18.00%	7239.24	47457.24	3	40218	18.00%	7239.24	47457.24	3	40218	18.00%	7239.24	47457.24
3.2	33 KV GIS CIRCUIT BREAKER																						
i	Trip Coils with Resistor as applicable	Nos.	6	15000.00	90000.00	18.00%	16200.00	106200.00	6	90000	18.00%	16200	106200	6	90000	18.00%	16200	106200	6	90000	18.00%	16200	106200
ii	Closing Coils with resistor as applicable for each compartment	Nos.	3	12188.00	36564.00	18.00%	6581.52	43145.52	3	36564	18.00%	6581.52	43145.52	3	36564	18.00%	6581.52	43145.52	3	36564	18.00%	6581.52	43145.52
4	SPARES FOR ISOLATOR AND EARTH SWITCH																						
4.1	220 KV ISOLATOR AND EARTH SWITCH																						
i	Complete set of 1 Nos. of three phase disconnector i/c main circuit enclosure and driving mechanism	Set	1	1178719.00	1178719.00	18.00%	212169.42	1390888.42	1	1178719	18.00%	212169.42	1390888.42	1	1178719	18.00%	212169.42	1390888.42	1	1178719	18.00%	212169.42	1390888.42
ii	Complete set of 1 Nos. of three phase earthing switch i/c main circuit enclosure and driving mechanism	Set	1	1151906.00	1151906.00	18.00%	207343.08	1359249.08	1	1151906	18.00%	207343.08	1359249.08	1	1151906	18.00%	207343.08	1359249.08	1	1151906	18.00%	207343.08	1359249.08
iii	Copper contact fingers for disconnector male and female contact for one complete (3 phase) disconnector for each compartment	Set	1	134063.00	134063.00	18.00%	24131.34	158194.34	1	134063	18.00%	24131.34	158194.34	1	134063	18.00%	24131.34	158194.34	1	134063	18.00%	24131.34	158194.34
iv	Copper contact fingers for earthing switch male and female contact for one complete (3 phase) disconnector for each compartment	Set	1	72188.00	72188.00	18.00%	12993.84	85181.84	1	72188	18.00%	12993.84	85181.84	1	72188	18.00%	12993.84	85181.84	1	72188	18.00%	12993.84	85181.84
4.2	33 KV ISOLATOR AND EARTH SWITCH																						
i	Complete set of 1 Nos. of three phase disconnector i/c main circuit enclosure and driving mechanism	Set	1	375000.00	375000.00	18.00%	67500.00	442500.00	1	375000	18.00%	67500	442500	1	375000	18.00%	67500	442500	1	375000	18.00%	67500	442500
ii	Complete set of 1 Nos. of three phase earthing switch i/c main circuit enclosure and driving mechanism	Set	1	375000.00	375000.00	18.00%	67500.00	442500.00	1	375000	18.00%	67500	442500	1	375000	18.00%	67500	442500	1	375000	18.00%	67500	442500
iii	Copper contact fingers for disconnector male and female contact for one complete (3 phase) disconnector for each compartment	Set	1	125000.00	125000.00	18.00%	22500.00	147500.00	1	125000	18.00%	22500	147500	1	125000	18.00%	22500	147500	1	125000	18.00%	22500	147500
iv	Copper contact fingers for earthing switch male and female contact for one complete (3 phase) disconnector for each compartment	Set	1	125000.00	125000.00	18.00%	22500.00	147500.00	1	125000	18.00%	22500	147500	1	125000	18.00%	22500	147500	1	125000	18.00%	22500	147500
5	SPARES FOR CURRENT TRANSFORMER																						
i	220 KV, single phase current transformer ratio 600-300/1-1-1-1 A complete with mounting hardware	No.	1	102994.00	102994.00	18.00%	18376.92	120470.92	1	102994	18.00%	18376.92	120470.92	1	102994	18.00%	18376.92	120470.92	1	102994	18.00%	18376.92	120470.92
ii	33 KV, single prase current transformer ratio 2200-1600/1-1-1-1 A complete with mounting hardware	No	1	62500.00	62500.00	18.00%	11250.00	73750.00	1	62500	18.00%	11250	73750	1	62500	18.00%	11250	73750	1	62500	18.00%	11250	73750
iii	33 KV, single phase current transformer ratio 2000-1000 /1-1-1-1 A complete with mounting hardware	No	1	62500.00	62500.00	18.00%	11250.00	73750.00	1	62500	18.00%	11250	73750	1	62500	18.00%	11250	73750	1	62500	18.00%	11250	73750
iv	33 kV, single phase current transformer ratio 1200-600-300 /1-1-1-1-1 A complete with mounting hardware	No.	1	62500.00	62500.00	18.00%	11250.00	73750.00	1	62500	18.00%	11250	73750	1	62500	18.00%	11250	73750	1	62500	18.00%	11250	73750
6	SPARES FOR VOLTAGE TRANSFORMER																						
i	33 kV, single phase voltage transformer ratio 33 KV/√3 / 110V/√3 / 110V/√3 / 110V with mounting hardware	No.	2	125000.00	250000.00	18.00%	45000.00	295000.00	2	250000	18.00%	45000	295000	2	250000	18.00%	45000	295000	2	250000	18.00%	45000	295000
7	SPARES FOR SURGE ARRESTOR																						
i	198 KV Zinc Oxide Gapless Surge Arrestor with counter and leakage meter	No	2	56250.00	112500.00	18.00%	20250.00	132750.00	2	112500	18.00%	20250	132750	2	112500	18.00%	20250	132750	2	112500	18.00%	20250	132750
ii	30 KV Zinc Oxide Gapless Surge Arrestor with counter and leakage meter	Nos.	2	18750.00	37500.00	18.00%	6750.00	44250.00	2	37500	18.00%	6750	44250	2	37500	18.00%	6750	44250	2	37500	18.00%	6750	44250
8	SPARES FOR RELAY AND PROTECTION PANELS																						

4.8.19

General Manager (C&D)
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Item	Description	Unit	Qty.	Unit Price	Total Price	Goods and Service Tax		Total Amount including GST	Qty.	Total Price	Goods and Service Tax		Total Amount including GST	Qty.	Total Price	Goods and Service Tax		Total Amount including GST	Qty.	Total Price	Goods and Service Tax		Total Amount including GST
				(INR)	(INR)	Rate	Amount			(INR)	Rate	Amount			(INR)	Rate	Amount			(INR)	Rate	Amount	
i	Numerical Transformer Differential Relay	Nos.	1	312500.00	312500.00	18.00%	56250.00	368750.00	1	312500	18.00%	56250	368750	1	312500	18.00%	56250	368750	1	312500	18.00%	56250	368750
ii	Trip Circuit Supervision Relay	Nos.	2	6250.00	12500.00	18.00%	2250.00	14750.00	2	12500	18.00%	2250	14750	2	12500	18.00%	2250	14750	2	12500	18.00%	2250	14750
iii	Self Reset Trip Relay (1 No. of each type)	Nos.	2	6250.00	12500.00	18.00%	2250.00	14750.00	2	12500	18.00%	2250	14750	2	12500	18.00%	2250	14750	2	12500	18.00%	2250	14750
iv	Hand Reset Trip Relay (1 No. of each type)	Nos.	2	6250.00	12500.00	18.00%	2250.00	14750.00	2	12500	18.00%	2250	14750	2	12500	18.00%	2250	14750	2	12500	18.00%	2250	14750
v	TNC switch for breaker	Nos.	1	6250.00	6250.00	18.00%	1125.00	7375.00	1	6250	18.00%	1125	7375	1	6250	18.00%	1125	7375	1	6250	18.00%	1125	7375
vi	Numerical Over Current & Earth Fault Relay	Nos.	1	250000.00	250000.00	18.00%	45000.00	295000.00	1	250000	18.00%	45000	295000	1	250000	18.00%	45000	295000	1	250000	18.00%	45000	295000
9	STATION TRANSFORMER																						
i	11 kV, L. V. Bushing with Metal Parts	No.	1	31250.00	31250.00	18.00%	5625.00	36875.00	1	31250	18.00%	5625	36875	1	31250	18.00%	5625	36875	1	31250	18.00%	5625	36875
ii	36 kV, H. V. Bushing with Metal Parts	No.	1	62500.00	62500.00	18.00%	11250.00	73750.00	1	62500	18.00%	11250	73750	1	62500	18.00%	11250	73750	1	62500	18.00%	11250	73750
10	ANY OTHER ITEM WHICH IN THE OPINION OF THE BIDDER IS ESSENTIAL AND HE MAY LIKE TO QUOTE																						
	TOTAL				2752921533.50		495525867.63	3248447401.13		2656881053.50		510033849.63	3338291903.13		2864112093.50		515541875.11	3379966265.61		2741581443.97		493555665.93	3235553809.89

General Manager (C&D)
HPPTCL, Shimla-5

4.B.10

Annexure-2

TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor S/Stn							
DESIGN SERVICES							
Name of Firm:		M/s Kanohar Electricals Limited in Collaboration with M/s Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan)					
Item	Description	Qty.	Unit Price	Total Price[1]	Goods and Service Tax		Total Amount Including GST (INR)
			Local Currency (INR)	Local Currency (INR)	Rate	Amount (INR)	
1.00	Substation Design (Extension)	1	50000.00	50000.00	18.00%	9000.00	59000.00
Total				**50000.00**		**9000.00**	**59000.00**

General Manager (C&D)
HPPTCL, Shimla-5

4.B.11

Annexure-3

TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Chaoor S/Stn Installation and other Services including civil works																			
Name of Firm:		M/s Kanohar Electricals Limited in Collaboration with M/s Chung Hsin Electric &							As per Amendment no. 6 (Final Closure)										
		As per Original Award																	
Item	Description	Unit	Qty.	Unit Price[1] Local Currency (INR)	Total Price[1] Local Currency (INR)	Goods and Service Tax Rate	Goods and Service Tax Amount	Total Amount Including GST	Final Qty	Deviation in quantity w.r.t. Original Qty.	Deviation with respect to awarded Quantity	Quantity within +/- 25%	Quantity Over + 25%	Qty for Analysed Unit Rate	Analyzed Unit rate	Ex-Works for up to 125%	Ex-Works for above +-25%	Total Ex-Works	Total Including GST @18%
1	POWER TRANSFORMER & STATION TRANSFORMER																		
	26.66/33.33 MVA,110/220 kV, ONAN / ONAF, Single-phase Power Transformer including 220 kV and 33 kV side bushing complete with all accessories including Fibre Optic Temperature Measuring System and first oil filling with 10% extra oil with RTCC panel complete in all respects. (Tertiary of 11 KV shall not be loaded)	Nos.	4	400000.00	1600000.00	18.00%	288000.00	1888000.00	4									1600000	1888000
ii	Online DGA Set	Nos.	4	15000.00	60000.00	18.00%	10800.00	70800.00	4									60000	70800
iii	Insulating Oil Dry out System for Main + OLTC Tank	Nos.	4	15000.00	60000.00	18.00%	10800.00	70800.00	4									60000	70800
iv	Nitrogen injection fire prevention and extinguishing system complete in all respects	Nos.	4	15000.00	60000.00	18.00%	10800.00	70800.00	4									60000	70800
v	250 kVA, 33/0.4 kV, 3-Phase Station Auxiliary Transformer including 33 kV SF-6 to cable termination, cable box for LT termination, accessories and first oil filling with 10% extra oil	No.	1	25000.00	25000.00	18.00%	4500.00	29500.00	1									25000	29500
																		0	0
2	220 KV GIS EQUIPMENT																		
	EXTENSION OF EXISTING BUS BAR SYSTEM (for existing both buses)	Set	1	10000.00	10000.00	18.00%	1800.00	11800.00	1									10000	11800
	245 kV, 4000 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF6 gas insulated, metal enclosed bus bars, required to interconnect transformer bay module with existing Double Main Bus System along with all required accessories etc complete in all respects including adaptor for interconnection with existing Bus.																	0	0
ii	TRANSFORMER CIRCUIT BREAKER BAY MODULE	Set	1	100000.00	100000.00	18.00%	18000.00	118000.00	1									100000	118000
	245 kV, 3500 A, Short Circuit Current Rating of 50 kA for 3.0 seconds, SF6 Gas Insulated Transformer Circuit Breaker Bay Module each comprising of SF6 Gas Insulated Circuit Breaker (2000 A), Current Transformers (Ratio: 600-300 / 1 - 1 - 1 - 1 - 1 A), Isolator / Disconnector Switches (2000 A) combined with Safety Earth Switch complete with Manual and Motor Driven Operating Mechanisms, Local Control Cubicle (LCC), SF6 Gas Monitoring System for complete Bay, Single Phase SF6 Ducts and Gas Insulated Terminal Connection (SF6 / Air Interface along with all Accessories) for connecting 80/100 MVA Single-phase Power Transformers Bank with 220 kV GIS through Gas Insulated Interconnection Bus and Accessories etc complete in all respects																	0	0
iii	245 KV AUXILIARY BUS BAY MODULE FOR SPARE TRANSFORMER	Set	1	100000.00	100000.00	18.00%	18000.00	118000.00	1									100000	118000
	245 kV, Single Phase, 2000 A, 50 kA for 3.0 seconds, Auxiliary Bus Bar Enclosure running across the length of the Switchgear to interconnect the Spare Unit of 11/33 / 220 kV, Single Phase Power Transformers Bank with 220 kV GIS, Transformer Bay Module through GIS Duct having Single Phase, 2000 A, SF6 Gas Breaker, single phase Current Transformers (Ratio: 600 - 300 / 1 - 1 - 1 - 1 - 1 A), Single Pole operated 2500 A Safety Grounding Switches complete with Manual and Motor Driven Operating Mechanism, Local Control Cubicle (if required), SF6 Gas Monitoring System for complete Bay, Single Phase GIS Duct, 2500 A and Gas insulated Terminal Connection (SF6 / Air Interface along with all Accessories) for connecting Spare Single Phase Power Transformer with GIS through Gas Insulated interconnection Bus and Accessories etc complete in all respects																	0	0
	New Item Included																	0	0
iv	220kV GIS Single Phase Bus Duct including Support Structure	Mtr.	0	4508	0.00	18.00%	0.00	0.00	137.3									617850	729063
																		0	0
3	33 KV GIS EQUIPMENT																		
	BUS BARS MODULE	Sets	2	15000.00	30000.00	18.00%	5400.00	35400.00	2									30000	35400

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Item	Description	Unit	Qty.	Unit Price[1]	Total Price[1]	Goods and Service Tax		Total Amount including GST	Final Qty	Deviation in quantity w.r.t Original Qty	Deviation with respect to awarded Quantity	Quantity within +/- 25%	Quantity Over + 25%	Qty for Analysed Unit Rate	Analyzed Unit rate	Ex-Works for up to 125%	Ex-Works for above +-25%	Total Ex-Works	Total including GST @18%
				Local Currency (INR)	Local Currency (INR)	Rate	Amount												
	36 kV, 3150 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, 3 single phase (Isolated) Unit, SF6 gas insulated, metal enclosed bus bars, each enclosed in bus enclosures running along the length of the switchgear to interconnect each of the circuit breaker bay module in Double Main Bus System. Each bus bar set shall be complete with Voltage Transformers (VTs) complete with isolator / disconnector cum earth switches and safety grounding switch all complete with manual and motor driven operating mechanisms, LCC, GIS Duct with SF6 gas monitoring system and accessories etc complete in all respects																	0	0
ii	BUS COUPLER BAY MODULE:	Set	1	15000.00	15000.00	18.00%	2700.00	17700.00	1									15000	17700
	36 kV, 2150 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 gas insulated bus coupler bay module comprising of vacuum circuit breaker (3150 A), current transformers (Ratio 2200-1600 / 1 - 1 - 1 - 1 A), bus bar isolator / disconnector switches (3150 A) combined with safety grounding switches complete with manual and motor driven operating mechanism, local control cubicle LCC, GIS Duct with SF6 gas monitoring system and accessories etc complete in all respects																	0	0
iii	TRANSFORMER CIRCUIT BREAKER BAY MODULE:	Sets	1	15000.00	15000.00	18.00%	2700.00	17700.00	1									15000	17700
	36 kV, 2500 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 gas insulated transformer bay module each comprising of vacuum circuit breaker current transformers (Ratio: 2000-1000 / 1 - 1 - 1 - 1 A), isolator / disconnector switches (2500 A) combined with safety earth switch complete with manual and motor driven operating mechanisms, local control cubicle SF6 gas monitoring system for complete bay, single phase SF6 ducts and SF6 / cable connecting termination arrangement to connect 63/100 MVA, 33/220 KV, single phase Power Transformer bank and accessories etc complete in all respects.																	0	0
iv	36 KV AUXILIARY BUS BAY MODULE FOR SPARE TRANSFORMER	Set	1	15000.00	15000.00	18.00%	2700.00	17700.00	1									15000	17700
	Single Phase, 2500 A, 31.5 kA for 3.0 seconds, Auxiliary Bus Bar Enclosure running across the length of the Switchgear to interconnect the Spare Unit of 11/33 / 220 kV, Single Phase Power Transformers Bank with 33 kV GIS, Transformer Bay Module through GIS Duct, having Single Pole, 3150 A, vacuum Breaker, current transformers (Ratio 2000-1000 / 1 - 1 - 1 - 1 A), Single Pole operated (2500A) Safety Grounding Switches complete with Manual and Motor Driven Operating Mechanism, Local Control Cubicle, SF6 Gas Monitoring System for complete Bay, Single Phase GIS Duct (3150 A) and Gas Insulated Terminal Connection (SF6 / cable Interfaces along with all Accessories) for connecting Spare Single Phase Power Transformer with GIS through Gas Insulated Interconnection Bus and Accessories etc complete in all respects																	0	0
v	36 KV STATION TRANSFORMER BAY MODULE	Set	1	15000.00	15000.00	18.00%	2700.00	17700.00	1									15000	17700
	36 kV, 630 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 Gas Insulated Feeder Bay Module comprising of Vacuum Circuit Breaker (630 A), isolator / disconnector switches combined with safety grounding switches, Current Transformers (Ratio 30-15 / 1 - 1 - 1 - 1 A), Local Control Cubicle (if required), single phase SF6) cable termination with SF6 Gas Monitoring System and Accessories etc. complete in all respects (excluding the cost of XLPE cable & termination kits).																	0	0
vi	TRANSMISSION LINE FEEDER BAY MODULE:	Sets	2	15000.00	30000.00	18.00%	5400.00	35400.00	2									30000	35400

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Item	Description	Unit	Qty	Unit Price	Total Price	Goods and Service Tax		Total Amount including GST	Final Qty	Deviation in quantity w.r.t. Original Qty.	Deviation with respect to awarded Quantity	Quantity within +/- 25%	Quantity Over + 25%	Qty for Analysed Unit Rate	Analyzed Unit rate	Ex-Works for up to 125%	Ex-Works for above +-25%	Total Ex-Works	Total Including GST @18%
				Local Currency (INR)	Local Currency (INR)	Rate	Amount												
	36 kV, 2000 A, Short Circuit Current Rating of 31.5 kA for 3.0 seconds, SF6 Gas insulated Transmission Line Feeder Bay Module each comprising of vacuum Circuit Breaker (2000 A), Current Transformers (Ratio: 1200-600-300/1-1-1-1 A), Isolator / Disconnectors (2000 A) Switches with combined Earth Switch complete with Manual and Motor Driven Operating Mechanisms, High Speed Fault Making Grounding Switch complete with group operated Manual and Motor Driven Operating Mechanism, Local Control Cubicle, SF6 Gas Monitoring System for complete Bay, GIS Duct and cable / SF6 Bushing Termination Enclosure and Accessories complete in all respects																0	0
4	220 KV OUT DOOR EQUIPMENT																	0	0
i	198 KV, Single Phase Zinc Oxide Gapless Surge Arrestor with insulating base, surge counter and leakage meter	Nos	4	5000.00	20000.00	18.00%	3600.00	73600.00	4									20000	23600
																		0	0
5	33 KV OUT DOOR EQUIPMENT																		
i	30 kV Zinc Oxide Gapless Surge Arrestor with insulating base, counter and leakage meter	Nos	12	3000.00	36000.00	18.00%	6480.00	42480.00	13									39000	46020
ii	33 KV, 1250A isolator with earth switch motor operated complete with Structures and foundation bolts	Nos	2	10000.00	20000.00	18.00%	3600.00	23600.00	2									20000	23600
iii	33 kV Outdoor PT, 33 kV/√3 / 110 V/√3, class 3P1 Scores)	Set	2	3000.00	6000.00	18.00%	1080.00	7080.00	0									0	0
6	220 kV & 33 kV SUPER STRUCTURES and 220 KV& 33 KV EQUIPMENT STRUCTURES: Note - Steel grade C shall be used.																		
i	220 kV Galvanized Supar Structures comprising gantries and columns																		
ii	220 kV Galvanized Equipment structures for CVT, LA, Isolators and Post Insulators	MT	40	5500.00	250000.00	18.00%	45900.00	305900.00	15.39									100037.929	118044.7563
iii	33 kV Galvanized Super Structures comprising gantries and columns including Transformer Bay for LV Bus and Neutral Bus.																		
iv	33 kV Galvanized Equipment Structures for PT and LA																		
v	33 kV Galvanized Structure for Station Transformer																	14199.38	16755.2684
vi	Nuts & Bolts including Foundation Bolts	MT	6	6000.00	29000.00	18.00%	7020.00	66020.00	2.18452									0	0
7	CONTROL RELAY AND PROTECTION PANELS																	0	0
A	220 KV CONTROL RELAY PROTECTION PANEL																		
i	Transformer Protection Control and Relay Panel (HV side of 26.66/33.33 MVA, 33 / 220 kV single-phase Power Transformers bank)	No	1	3000.00	3000.00	18.00%	540.00	3540.00	1									3000	3540
ii	Transformer Protection Control and Relay Panel for single phase spare transformer (HV side of 26.66/33.33 MVA, 11/33 / 220 kV single-phase Power Transformer)	No	1	3000.00	3000.00	18.00%	540.00	3540.00	1									3000	3540
																		0	0
B	33 KV RELAY PROTECTION PANEL																	3000	3540
i	Bus coupler Control Relay and Protection Panel	No	1	3000.00	3000.00	18.00%	540.00	3540.00	1									3000	3540
ii	Bus Bar Control Relay and Protection Panel	No	1	3000.00	3000.00	18.00%	540.00	3540.00	1										
iii	Transformer Protection Control and Relay Panel (LV side of 26.66/33.33 MVA, 11/33/220 KV single-phase Power Transformers bank)	No	1	3000.00	3000.00	18.00%	540.00	3540.00	1									3000	3540
iv	33 kV Line Feeder Protection, Control and Relay Panels	Nos	2	3000.00	6000.00	18.00%	1080.00	7080.00	2									6000	7080
v	33 KV Control & Protection Relay panel for station Transformer	No	1	3000.00	3000.00	18.00%	540.00	3540.00	1									3000	3540
vi	Transformer Protection, Control and Relay Panel (LV side of 26.66/33.33 MVA, 11/ 33/220 kV single-phase Power Transformer)	No	1	3000.00	3000.00	18.00%	540.00	3540.00	1									3000	3540
																		0	0
8	VENTILATION SYSTEM																	1500	1770
i	400 mm sweep exhaust fan with louvres without any filtration system	Nos	5	500.00	2500.00	18.00%	450.00	2950.00	3										
9	Piping valves and other accessories for Hydrant System from the Pump House for 4 Nos. Single-phase Power Transformers as per CBIP Publication No.: 295 (Manual on Transformers). Only piping works and other necessary accessories required for water pumping / lifting from existing system. Pumps and Motors are existing at 132/220 kV GIS Substation Charor	Set	1	100000.00	100000.00	18.00%	18000.00	118000.00	0									0	0
10	L.T. AND CONTROL CABLES																	0	0

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Item	Description	Unit	Qty	Unit Price[1]	Total Price[1]	Goods and Service Tax		Total Amount including GST	Final Qty	Deviation in quantity w.r.t. Original Qty	Deviation with respect to awarded Quantity	Quantity within +/- 25%	Quantity Over +/- 25%	Qty for Analysed Unit Rate	Analyzed Unit rate	Ex-Works for up to 125%	Ex-Works for above +-25%	Total Ex-Works	Total Including GST @18%
				Local Currency (INR)	Local Currency (INR)	Rate	Amount												
10.1	1.1 kV Grade PVC Insulated Aluminium Conductor Power Un-armoured along with Lugs, Glands, Straight Joints, Termination Kits etc																	0	0
	(i) 3.5 Core 120 Sq mm Aluminium Conductor	km	0.5	150000.00	75000.00	18.00%	13500.00	88500.00	0.158									23700	27966
	(ii) 3.5 Core 35 Sq mm Aluminium Conductor	km	0.5	100000.00	50000.00	18.00%	9000.00	59000.00	0.106									10600	12508
	(iii) 3.5 core, 400 Sqmm Aluminium cable	KM	0.3	200000.00	60000.00	18.00%	10800.00	70800.00	0.017									3400	4012
10.2	Power Aluminium Cable (PVC) - (Un-Armoured)																	0	0
	(i) 4 C x 25 sq. mm	km	1	50000.00	50000.00	18.00%	9000.00	59000.00	0									0	0
10.3	Control Copper Cables (FRLS) - (Un-Armoured)																	0	0
	(i) 2 C x 2.5 sq. mm	km	1	12000.00	12000.00	18.00%	2160.00	14160.00	0.726									8712	10280.16
	(ii) 4 C x 2.5 sq. mm	km	2	15000.00	30000.00	18.00%	5400.00	35400.00	1.143									17145	20231.1
	(iii) 7 C x 2.5 sq. mm	km	3.5	15000.00	52500.00	18.00%	9450.00	61950.00	1.67									25050	29559
	(iv) 10 C x 2.5 sq. mm	km	2.5	18000.00	45000.00	18.00%	8100.00	53100.00	1.515									27270	32178.6
	(v) 12 C x 2.5 sq. mm	km	2.5	18000.00	45000.00	18.00%	8100.00	53100.00	1.15									20700	24426
	(vi) 19 C x 2.5 sq. mm	km	3.5	20000.00	70000.00	18.00%	12600.00	82600.00	0.861									17220	20319.6
	(vii) 4 C X 4 sq.mm	km	1	10000.00	10000.00	18.00%	1800.00	11800.00	4.439									44390	52360.2
10.4	POWER CABLES (Armoured)																	0	0
	(i) 33 kV Grade, 95 Sq mm XLPE insulated SPB/CB Aluminium conductor single core cable with corrugated aluminium sheath for terminating 250 kVA, 33 / 0.4 kV Station Transformer along with Termination Kits	km	0.75	200000.00	150000.00	18.00%	27000.00	177000.00	0.094									16690	22184
	(ii) 33 kV Grade, 1000 Sq.mm XLPE insulated SPB/CB Aluminium conductor single core cable with corrugated aluminium sheath for 33 kV Line Feeders and Transformer Feeder Bays along with Outdoor termination kits	km	1	200000.00	200000.00	18.00%	36000.00	236000.00	0									0	0
	(iii) 33 kV Grade, 630 Sq.mm XLPE insulated SPB/CB Aluminium conductor single core cable with corrugated aluminium sheath for 33 kV Line Feeders and Transformer Feeder Bays along with Outdoor termination kits	Km	3	200000.00	600000.00	18.00%	108000.00	708000.00	1.824									324800	383264
11	EARTH MAT & ASSOCIATED ACCESSORIES																	0	0
	(i) M. S. Electrodes 25 mm dia	kg	200	15.00	3000.00	18.00%	540.00	3540.00	1066									15999	18668.2
	(ii) M. S. Flat 40 x 6 mm for risers	kg	900	15.00	7500.00	18.00%	1350.00	8850.00	486.4									7298	8669.28
	(iii) M.S. Rod 40 mm dia for main earthmat	km	2	150000.00	300000.00	18.00%	54000.00	354000.00	2.14									321000	378780
	(iv) 75 x 12 mm G. S. Flat	kg	500	15.00	7500.00	18.00%	1350.00	8850.00	7621.353									114320.295	134897.9481
	(v) 50 x 6 mm G. S. Flat	kg	400	15.00	6000.00	18.00%	1080.00	7080.00	356.16									5342.4	6304.032
	(vi) Braided Copper 35 x 3 mm for double flexible risers from flat risers to equipment	nos	300	200.00	60000.00	18.00%	10800.00	70800.00	0									0	0
	New Item Added				0.00	18.00%	0.00	0.00										0	0
11	40mm dia. 3 mtr long GS pipe earth electrode in treated earth pit - 4 nos. (for HV & LV Neutral Bus earthing)	No	0	1900.00	0.00	18.00%	0.00	0.00	4									7600	8968
12	Miscellaneous Items, Earthing Material and Erection Hardware such as BPI, Insulator Strings, 120 kN Disc Insulator, Hardware, Spacers, ACSR Moose Conductor(s), Cable Trays, Clamps, Connectors including Equipment Connectors, Junction Box, Earthwire, Lightning Protection, Buried Cable Trenches / Pipes for Equipment and Lighting, Cable Sealing Arrangement, nuts and bolts including all Accessories etc for completion of Scope of Work. Any material required to connect the system proposed in the scope with existing Substation Automation System including OFC shall be in the scope of bidder.	Job	1	100000.00	100000.00	18.00%	18000.00	118000.00	1									100000	118000
13	LT SWITCHGEAR																	0	0
i	Main Switch Boards for 33 GSS as per Technical Specification, Section - 5 (ACDB)	Set	1	10000.00	10000.00	18.00%	1800.00	11800.00	1									10000	11800
																		0	0
14	TERTIARY FORMATION																		
a)	Supply of material for delta & Neutral formation arrangement including conductor (TARATULLA), Pinn insulators (11 kV) with creepage distance 31.5 mm/kV, Steel Structures, Aluminium Tubes 3" size or Aluminium flat of suitable size, PVC tape for 11 kV voltage level for covering the conductors or Aluminium tube/flats, Disc or Pin insulators and NCTs Hardware assemblies, connectors as required to complete the system (excluding civil works and cables)	Set	1	15000.00	15000.00	18.00%	2700.00	17700.00	0									0	0
b)	Alternative arrangement for Delta & Neutral formation arrangement with cables or any other arrangement (tertiary is unloaded)	job	1	15000.00	15000.00	18.00%	2700.00	17700.00	0									0	0

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Item	Description	Unit	Qty.	Unit Price[1]	Total Price[1]	Goods and Service Tax		Total Amount including GST	Final Qty.	Deviation in quantity w.r.t. Original Qty.	Deviation with respect to awarded Quantity	Quantity within +/- 25%	Quantity Over + 25%	Qty for Analysed Unit Rate	Analysed Unit rate	Ex-Works for up to 125%	Ex-Works for above +-25%	Total Ex-Works	Total including GST @18%
				Local Currency (INR)	Local Currency (INR)	Rate	Amount												
15	ILLUMINATION SYSTEM																	0	0
	Installation of items for Illumination with LED Luminaires in 33 kV GIS hall with PVC conduits including Luminaires, wires, Main Switches, distribution Boards etc, PVC Copper conductor cables, Conduits/Junction boxes, Main Switch Boards. The rates in above items shall cover all items required for illumination of 33 kV GIS Hall	Job	1	15000.00	15000.00	18.00%	2700.00	17700.00	1									15000	17700
	NOTE: The wire size shall not be less than 2.5 sq. mm. Copper Conductor. The cost of wires / cables to be used for wiring from Main Switch Board onwards shall be covered in this item.																	0	0
16	ANY OTHER ITEM WHICH IN THE OPINION OF THE BIDDER IS ESSENTIAL AND HE MAY LIKE TO QUOTE																	0	0
																		0	0
	New Items																		
i)	Bajaj Make 2X400W HPSV FloodLight fitting with control gear BJCG 2*400W DO, 2 Nos. HID Ballast 400W, 2 Nos 400W HPSV Lamp and Ignitor complete Cat Ref. BAJAJ BGENF22R	No.	0	712.5	0.00	18.00%	0.00	0.00	5									3562.5	4203.75
ii)	BAJAJMake : 150W Metal Floodlight with 150W MH DE Lamp and 150W HID Ballast complete Cat Ref. BAJAJ LI 150W MH DE	No	0	712.5	0.00	18.00%	0.00	0.00	2									1425	1681.5
																		1140	1345.2
iii)	33 kV Neutral NLT	No	0	1140	0.00	18.00%	0.00	0.00	1										
iv)	33kV, 2500A, 25kA for 3 Sec. Single phase double break motor Isolator without earth switch and with complete moving contact of HDEC, marshalling box and all accessories etc.	No.	0	9218	0.00	18.00%	0.00	0.00	8									74400	87886.4
																		59650	78894.2
v)	6 Meter Length 3" IPS Aluminium Tube	Mtr	0	855	0.00	18.00%	0.00	0.00	78									13680	16142.4
vi)	4 Meter Length 3" IPS Aluminium Tube	Mtr	0	855	0.00	18.00%	0.00	0.00	16									26600	31388
vii)	Welding Sleeves for 3" IPS Aluminium Tube	Nos	0	3800	0.00	18.00%	0.00	0.00	7									11400	13452
viii)	PTZ Camera Complete in all respects	No.	0	11400	0.00	18.00%	0.00	0.00	1									25125	30827.5
ix)	Fixed Type Camera Complete in all respects	No	0	5225	0.00	18.00%	0.00	0.00	5										
	CIVIL WORKS																		
1	Cutting in Earth Work in all kinds of soil and disposal of excavated earth in all leads & lifts as per the direction of the Engineer- in- charge	cum	1000	150.00	150000.00	18.00%	27000.00	177000.00	2263.293	1263.29	126.33%	1250	1013.293	1013.293	302	187500	306014.486	493514.486	582347.0935
2	Excavation in Foundations, in all kind of soil and rock , Trenches etc., in Earth Work, in all lifts stacking, the excavated soil not more than 3 meters clear from the edge of the excavation and then returning the stacked soil in 15 cm layers, when required into Plinths sides of Foundations etc. consolidating each deposited layer by ramming and watering and then disposing of all surplus excavated earth within all leads and lifts as per the directions of Engineer-in-charge	cum	2000	200.00	400000.00	18.00%	72000.00	472000.00	2240.993	240.99	12.05%	2240.993				448198.6	0	448198.6	528874.348
3	Providing and Laying 1: 3: 6 (1 Cement: 3 Sand : 6 Graded Stone Aggregate 40 mm nominal size) and Curing complete excluding Cost of Form Work in Foundation and Plinth	cum	100	5200.00	520000.00	18.00%	93600.00	613600.00	102.08	2.08	2.08%	102.08				530816	0	530816	626362.88
4	Providing and Laying reinforced Concrete Cement M20 (Design Mix with Graded Stone Aggregate 20 mm nominal size) and Curing complete excluding Cost of Form Work and Reinforcement for Reinforced Cement Concrete Work including admixtures/additives and as per directions of Engineer-in-charge	cum	100	7000.00	700000.00	18.00%	126000.00	826000.00	156.704	56.70	56.70%	125	31.704	31.704	7408.17	875000	234868.6217	1109868.622	1309644.974
5	Providing and Laying reinforced Concrete Cement M20 (Design Mix with Graded Stone Aggregate 20 mm nominal size) and Curing complete excluding Cost of Form Work and Reinforcement for Reinforced Cement Concrete Work including admixtures/additives and as per directions of Engineer-in-charge	cum	700	6500.00	4550000.00	18.00%	819000.00	5369000.00	552.777	-147.22	-21.03%	552.777				3593050.5	0	3593050.5	4239799.59
6	Providing form work with steel plates 3.15 mm thick welded with angle iron in frame 30x30x5 mm, so as to give a fair finish including centering, shuttering, strutting & propping etc. with wooden battens & battles in all heights and removal of the same for in situ reinforced concrete & plain concrete work in Foundation, footings bases of columns etc. and mass concrete	sqm	2500	375.00	937500.00	18.00%	168750.00	1106250.00	3663.965	1163.97	47.36%	3125	538.965	538.965	362	1171875	196756.932	1368631.032	1614984.618

4.8.16

General Manager (C&D)
HPPTCL, Shimla-5

Item	Description	Unit	Qty.	Unit Price'	Total Price'	Goods and Service Tax		Total Amount including GST	Final Qty	Deviation in quantity w.r.t. Original Qty	Deviation with respect to awarded Quantity	Quantity within +/- 25%	Quantity Over + 25%	Qty for Analysed Unit Rate	Analysed Unit rate	Ex-Works for up to 125%	Ex-Works for above +-25%	Total Ex-Works	Total including GST @18%
				Local Currency (INR)	Local Currency (INR)	Rate	Amount												
7	Providing & Laying Damp Proof Course 50 mm thick with Cement Concrete, 1: 2: 4 (1 Cement: 2 Sand: 4 Stone Aggregate 12.5 mm nominal size) and Curing complete.	sqm	30	375.00	18750.00	18.00%	3375.00	22125.00	0	-30.00	-100.00%	0	0			0	0	0	0
8	Providing and Laying Cement Concrete, 1: 2: 4 (1 Cement: 2 Sand: 4 Sand Stone Aggregate 20 mm nominal size) and Curing complete excluding Cost of Form Work in Foundation and Plinth.	cum	20	8600.00	172000.00	18.00%	30960.00	202960.00	0	-20.00	-100.00%	0	0			0	0	0	0
9	Providing and Laying Cement Concrete 1:6: 12, (1 Cement 6 Sand: 12 graded Stone Aggregate 40 mm nominal size) and Curing complete excluding Cost of Centering and Shuttering in Foundation and Plinth.	cum	18	5200.00	93600.00	18.00%	16848.00	110448.00	11.335	-6.67	-37.05%			11.335	4970.87	0	56344.81145	56344.81145	66486.87751
10	Providing Mild / Tor Steel Reinforcement for R. C. C. Work including Bending, Binding and Placing in position complete for all heights.	MT	65	65000.00	4225000.00	18.00%	760500.00	4985500.00	49.246	-15.75	-24.24%	49.246	0			3200960	0	3200960	3777132.2
11	Brick Work using Common Burnt Clay Building, Bricks in									0.00		0	0			0	0	0	0
a	Foundation and Plinth in Cement Mortar 1: 4 (1 Cement : 4 Sand) First Class Bricks	cum	30	8000.00	240000.00	18.00%	43200.00	283200.00	12.919	-17.08	-56.94%			12.919	6320.99	0	81660.86961	81660.86961	96359.82638
b	Super Structure above Plinth level upto all heights in Cement Mortar 1: 4 (1 Cement: 4 Sand) First Class Bricks	cum	130	8250.00	1072500.00	18.00%	193050.00	1265550.00	12.23	-117.77	-90.59%			12.23	6266.46	0	76638.8058	76638.8058	90433.79084
c	Half Brick Masonry in common burnt clay building bricks in C M 1 : 4 (1 Cement : 4 sand) up to all heights and as directed by Engineer-in-charge	sqm	150	1200.00	180000.00	18.00%	32400.00	212400.00	0	-150.00	-100.00%					0	0	0	0
12	15 mm cement plaster in single coat on rough / fair side of brick /concrete /stone wall for interior plastering up to all heights including arises /normal rounded angles chamfers and/or rounded angles not exceeding 80 cm in girth & finished even & smooth. (in cement mortar 1 : 4 being 1 cement: 4 sand)	sqm	1200	280.00	336000.00	18.00%	60480.00	396480.00	613.875	-586.13	-48.84%			613.875	257.74	0	158220.1425	158220.1425	186699.7682
13	20 mm cement plaster in two coats (8mm + 12mm) on rough / fair side of brick /concrete /stone wall for exterior plastering upto all heights including arise external rounded angles chamfers and/or rounded angles not exceeding 80 cm in girth & finished even & smooth. (in cement mortar 1 : 3, 1 cement: 3 sand for 8 mm outer layer and 12 mm base as 1:4 as above)	sqm	1200	330.00	396000.00	18.00%	71280.00	467280.00	179.37	-1020.63	-85.05%			179.37	274.14	0	49172.4918	49172.4918	58023.54032
14	6 mm cement plaster to ceiling in cement mortar 1 : 3 (1 cement : 3 sand)	sqm	250	280.00	70000.00	18.00%	12600.00	82600.00	111.46	-138.54	-55.42%			111.46	150.43	0	16766.9278	16766.9278	19784.9748
15	Stone soling under floors as per directions of Engineer -in-charge	cum	75	2500.00	187500.00	18.00%	33750.00	221250.00	2.75	-72.25	-96.33%			2.75	1132.58	0	3114.87	3114.87	3675.5488
16	Providing and laying Sand filling under floors as directions of Engineer -in-charge	cum	50	2500.00	125000.00	18.00%	22500.00	147500.00	0	-50.00	-100.00%					0	0	0	0
17	50 mm thick cement concrete flooring with metallic concrete hardener topping under layer of 35 mm thick cement concrete 1:2:4 (1 Cement: 2 Sand : 4 Graded Stone aggregate 20 mm nominal size) and top layer of 15 mm thick metallic concrete hardener mix 1:2 (1 Cement hardener mix : 2 Stone aggregate 6 mm nominal size) by volume with metallic hardening compound of approved quality is mixed in the ratio 4:1 (4 parts of cement : 1 part of metallic floor hardening compound approved quality by weight including finishing complete.	sqm	150	600.00	90000.00	18.00%	16200.00	106200.00	0	-150.00	-100.00%					0	0	0	0
18	Distempering two coats with oil bound washable distemper of approved brand &manufacture of required shade on undecorated wall surfaces to give an even shade over & including a priming coat with distemper primer of approved brand & manufacture after thoroughly brushing the surface free from mortar droppings and other foreign matter and also including preparing the surface even and sand papered smooth priming coat with distemper primer.	sqm	1500	150.00	225000.00	18.00%	40500.00	265500.00	88.96	-1411.04	-94.07%			88.96	105.18	0	9358.8128	9358.8128	11041.0391
19	Finishing Wall with Water Proofing Cement Paint of approved Brand and Manufacture and of required Shade on Undecorated Wall Surfaces (Two coats) to give an even Shade after thoroughly Brushing the surface to remove all Old, Loose or Softened Paint.	sqm	1500	150.00	225000.00	18.00%	40500.00	265500.00	549.001	-950.99	-63.40%			549.001	67.5	0	37057.5675	37057.5675	43727.92965

4.8.17

General Manager (C&D)
HPPTCL, Shimla-5

Item	Description	Unit	Qty	Unit Price'	Total Price'	Goods and Service Tax		Total Amount including GST	Final Qty	Deviation in quantity w.r.t. Original Qty.	Deviation with respect to awarded Quantity	Quantity within +/- 25%	Quantity Over + 25%	Qty for Analysed Unit Rate	Analyzed Unit rate	Ex-Works for up to 125%	Ex-Works for above +-25%	Total Ex-Works	Total Including GST @18%
				Local Currency (INR)	Local Currency (INR)	Rate	Amount												
20	Applying priming coat over new steel & other metal surfaces after & including preparing the surface by thoroughly cleaning oil grease dirt & other foreign matter & scoured with wire brushes fine steel wool scrappers & sand papering complete with ready mixed priming paint brushing red lead cosse zinc oxide chrome	sqm	500	135.00	67500.00	18.00%	11250.00	73750.00	0	-500.00	-100.00%					0	0	0	0
21	Painting two coats(excluding priming coat) on new steel & other metal surfaces with enamel paint brushing to give an even shade including cleaning th surfaces of all dirt, dust &other foreign matter with enamel paint &other than white	sqm	500	165.00	82500.00	18.00%	14850.00	97350.00	757.353	257.35	69.47%	625	172.353	172.353	105	103125	16087.065	121222.065	143042.0367
22	Providing under layer for plinth protection of 75 mm thick (uncompacted) bed dry bricht stone aggregate 40mm nominal size well cemented and consolidated and grouted with fine sand including preparation of ground	sqm	75	120.00	9000.00	18.00%	1620.00	10620.00	15.353	-59.65	-79.53%			15.353	383.82	0	5892.78846	5892.78846	6953.490383
23	Providing plinth protection 50 mm thick in cement concrete 1:2:4 (1 cement:2 sand :4 graded stone aggregate of 20 mm nominal size)	sqm	75	410.00	30750.00	18.00%	5535.00	36285.00	15.353	-59.65	-79.53%			15.353	349.55	0	5366.64115	5366.64115	6332.636557
24	Prov. & fixing anodized Aluminium doors, windows, Ventilators and glazed partitions with extruded built up section standard tubular and other sections of approved make conforming to IS 733 and IS: 1285 anodized transparent or dyed to required shade according to IS 1868 (minimum Anodic coating of grade AC 15) fixed with Rawl plugs and screws or with fixing clips or with expansion bolts/anchors MC necessary filling up of gaps at junctions at top bottom and sides with required PVC / neoprene flat etc. Aluminium sections shall be smooth, rust free, straight and drilled mechanically wherever required /c cleat angles aluminium snap beading for glazing / paneling CP brass stainless steel screws or complete as per architectural drawings and directions of Engineer -in -charge.								0.00							0	0	0	0
a	For door, windows and ventilators and glazed partition frames	Kg	800	470.00	376000.00	18.00%	67680.00	443680.00	0	-800.00	-100.00%					0	0	0	0
b	For Shutters of Doors, Windows and ventilators including providing and fixing wire gauge shutters as per requirement hinges ripvos and making provision of putty wherever required including the cost of PVC/ Neoprene Gaskets required (fitting & Glazing / paneling shall be paid for separately)	Kg	250	500.00	125000.00	18.00%	22500.00	147500.00	0	-250.00	-100.00%					0	0	0	0
25	Providing & fixing glazing in aluminium doors ,windows , ventilators shutters and partitions etc. with PVC/ Neoprene gaskets etc. complete as per the architectural drawings and the directions of Engineer -in -charge (Cost of Aluminium snap beading shall be paid in basic item)								0	0.00						0	0	0	0
a	Glazing with glass pane of 5.38 mm thickness (weight not less than 13.75 Kg / Sq.m.) Toughened glass for Non AC Room	sqm	50	1300.00	65000.00	18.00%	11700.00	76700.00	0	-50.00	-100.00%					0	0	0	0
26	Providing & fixing Double action hydraulic floor spring of approved brand & manufacture (conforming to IS 5315 for Aluminium doors cost of cutting floor as required embedding in floors & cover plates etc complete as per the direction of Engineer -in charge	No	5	7550.00	37500.00	18.00%	6750.00	44250.00	0	-5.00	-100.00%					0	0	0	0
27	Particle board phenolf bonded water/antiator grade in partitions 12 mm thick	sqm	20	1000.00	20000.00	18.00%	3600.00	23600.00	0	-20.00	-100.00%					0	0	0	0
28	Steel work welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of red lead paint									0.00			0	0		0	0	0	0
a)	In beams joists channels, angles, ties, flats, chequred plate, NG nails etc. with connection plates or angle cleats as in main and cross beams hip and jack rafters purlins connected to common rafters and like	MT	10	75000.00	750000.00	18.00%	135000.00	885000.00	7.952	-2.05	-20.46%	7.952	0	0		596400	0	596400	703752
b)	Steel work welded in built up sections in gratings framed guard bars, ladders, railings, brackets and similar works	MT	5	75000.00	375000.00	18.00%	67500.00	442500.00	5	0.00	0.00%	5	0	0		375000	0	375000	442500

4.B.18

General Manager (C&D)
HPPTCL, Shimla-5

Item	Description	Unit	Qty.	Unit Price*	Total Price*	Goods and Service Tax		Total Amount Including GST	Final Qty	Deviation in quantity w.r.t. Original Qty.	Deviation with respect to awarded Quantity	Quantity within +/- 25%	Quantity Over +/- 25%	Qty for Analysed Unit Rate	Analyzed Unit rate	Ex-Works for up to 125%	Ex-Works for above +-25%	Total Ex-Works	Total Including GST @18%
				Local Currency (INR)	Local Currency (INR)	Rate	Amount												
29	Steel work in single sections, including cutting hoisting fixing in position and applying a priming coat of red lead paint , in RS Joists ,channels angles, Tees , flats , trussed purlins etc as per directions of Engineer-in-charge	MT	10	75000.00	750000.00	18.00%	135000.00	885000.00	9.898	-0.10	-1.02%	9.898	0	0		742350	0	742350	875973
30	Random rubble masonry / polygonal rubble masonry (uncoursed / brought to courses) with hard stone of approved quality in foundation and plinth including leveling up with cement concrete 1:6:12 (1 cement : 6 sand : 12 graded stone aggregate 20 mm nominal size) in cement mortar 1:6 (1 cement: 6 sand)								0.00				0	0			0	0	0	0
a	In foundations and plinth	cum	50	3400.00	170000.00	18.00%	30600.00	200600.00	0	-50.00	-100.00%					0	0	0	0
b	In breast walls and retaining walls	cum	100	3400.00	340000.00	18.00%	61200.00	401200.00	0	-100.00	-100.00%					0	0	0	0
31	Stone filling behind retaining walls as per direction of EIC.	cum	50	2300.00	115000.00	18.00%	20700.00	135700.00	3.96	-46.04	-92.08%			3.96	2054.63	0	8136.3348	8136.3348	9600.875064
32	Providing and laying Stone filling 40mm size for transformer/reactor foundation	cum	100	2300.00	276000.00	18.00%	49680.00	325680.00	17.31	-102.69	-85.58%			17.31	2179.83	0	37732.8573	37732.8573	44524.77161
33	Stone Soling properly hand packed filling interstices with spalls and consolidating with Power Road Roller to the required gradient and camber including Spreading, Watering and Rolling of Binding Materials Moorum or Earth etc as per directions of Engineer-in-charge	cum	200	3600.00	600000.00	18.00%	108000.00	708000.00	0	-200.00	-100.00%					0	0	0	0
34	Excavation for road way in all kinds of soil such as pick work,jumper work,blasting work hard or soft chiselling etc.in all heights and depths using manual means for carrying of cut earth to embankment site within all leads and lifts as per technical specification including entire carriage of material in all leads and lifts as per the direction to Engineer -in -charge	cum	150	300.00	45000.00	18.00%	8100.00	53100.00	0	-150.00	-100.00%					0	0	0	0
35	Proving laying & spreading and compacting 100mm thick Grade-I stone aggregate of 90mm to 40mm size to water bound macadam specification including spreading in uniform thickness hand packing rolling with 8ms wheel 80-100KN static roller in stages to proper grade & camber applying and blooming stone screening /binding material to fill up the interstices of coarse aggregate water & compacting required density grading -1 as per technical specifications by manual means inc entire carriage of material in all leads and lifts as per the direction of Engineer - in Charge.	cum	30	2200.00	66000.00	18.00%	11880.00	77880.00	0	-30.00	-100.00%					0	0	0	0
36	Proving laying & spreading and compacting 75mm thick Grade-II stone aggregate 63 to 40mm size on water bound macadam specification including spreading in uniform thickness hand packing rolling with smooth wheel roller 80-100KN in stages to proper grade and chamber and blooming stone screening/binding material to fill up the interstice of coarse aggregate watering and compacting to the required density grading -2 as per technical specification by mechanical means including entire carriage of material in all leads and lifts as per the direction of Engineer in charge	cum	25	2400.00	60000.00	18.00%	10800.00	70800.00	0	-25.00	-100.00%					0	0	0	0
37	Proving laying & spreading and compacting 75mm thick Grade-II stone aggregate 50 to 25 mm size on water bound macadam specification including spreading in uniform thickness hand packing rolling with smooth wheel roller 80-100KN in stages to proper grade and chamber and blooming stone screening/binding material to fill up the interstice of coarse aggregate watering and compacting to the required density grading -3 as per technical specification by mechanical means including entire carriage of material in all leads and lifts as per the direction of Engineer in charge	cum	25	2600.00	70000.00	18.00%	12600.00	82600.00	0	-25.00	-100.00%					0	0	0	0
38	Providing and applying tack coat with bitumen i.e VG-10 to S 90 or RS-1 emulsion using emulsion distributor at the rate of 0.25 to 0.30Kg per Sqm on the prepared granular surface cleaned with Hydraulic broom as per technical specification clause -503	Sq.mtr	250	75.00	18750.00	18.00%	3375.00	22125.00	0	-250.00	-100.00%					0	0	0	0

4/8/19

General Manager (C&D)
HPPTCL, Shimla-5

Item	Description	Unit	Qty.	Unit Price'	Total Price'	Goods and Service Tax		Total Amount including GST	Final Qty	Deviation in quantity w.r.t. Original Qty.	Deviation with respect to awarded Quantity	Quantity within +/- 25%	Quantity Over + 25%	Qty for Analysed Unit Rate	Analyzed Unit rate	Ex-Works for up to 125%	Ex-Works for above +-25%	Total Ex-Works	Total Including GST @18%
				Local Currency (INR)	Local Currency (INR)	Rate	Amount												
38	Providing Laying and Rolling of open graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregate either using penetration grade bitumen at the rate of 1.46 Kg /sq mtr to required line grade and level to serve as wearing course on a previously prepared base i/c mixing in a suitable plant laying and rolling with a 3 wheel 80-100 Kn static s Roller capacity finished to required level and grades to be followed by seal coat of type-B(by manual means)bitumen VG -10 or S-90 i/c enlee carriage of material in all leads and lifts as per the instructions of Engineer in charge	Sq mtr	250	275.00	68750.00	18.00%	12375.00	81125.00	0	-250.00	-100.00%					0	0	0	0
40	Providing and Laying seal Coat sealing the voids in a bituminous surface laid to the specific levels grade and cross fall using type-B as per technical specifications clause 510 (by manual Means)Bitumen Vg 10 or S-90 using @ 0.68 Kg per Sqm. (zero point six eight kilogramme per square meters) including entire carriage of materials in all leads and lifts as per the direction of Engineer -in- charge.	Sq mtr	250	100.00	25000.00	18.00%	4500.00	29500.00	0	-250.00	-100.00%					0	0	0	0
41	Providing Stone Khurrja drain of 45 cm wide including 25 cm side stone laid in cement mortar 1:6 (1 cement :6 sand) complete as HPPWD specification.	Rmtr	100	1300.00	130000.00	18.00%	23400.00	153400.00	0	-100.00	-100.00%					0	0	0	0
42	Excavation in earth work & banking in 20 cm Layer including breaking clouds &compacting with Road Rollers to attain the bearing capacity of soil at the required level including filling up ground depressions and to achieve the required resistivity and proposed level as per site requirement within all leads and lifts as per the directions of Engineer in Charge.	cum	50	650.00	32500.00	18.00%	5850.00	38350.00	0	-50.00	-100.00%					0	0	0	0
43	P/L 12 mm thick Bitumen Impregnated fiber board for expansion joints as per directions of EIC	Rmtr	25	250.00	6250.00	18.00%	1125.00	7375.00	10.05	-14.95	-59.80%			10.05	456.84	0	4591.242	4591.242	5417.66556
44	P/L Bitumen joint sealant in expansion and contraction joints of Concrete roads as per directions of EIC	Rmtr	25	150.00	3750.00	18.00%	675.00	4425.00	0	-25.00	-100.00%					0	0	0	0
	ANTIWEED TREATMENT									0.00						0	0	0	0
45	Providing and Supplying all Labour, Material, Equipments etc. Excavation, Mixing / Injecting Chemicals to achieve the guaranteed effectiveness of Treatment at least upto three years, Rolling, Dressing, Compacting the Excavated Earth within Sub Station Area excluding cement concrete as per directions of EIC	sqm	1000	80.00	80000.00	18.00%	14400.00	94400.00	804.605	-195.40	-19.54%	804.605	0	0		84388.4	0	84388.4	75954.712
46	Providing and laying cement concrete 1:5:10 (1 cement :5 sand: 10 graded stone aggregate 40 mm nominal size) and curing complete excluding cost of form work in foundation and plinth with the layer of cement slurry 1:6	cum	75	4800.20	360000.00	18.00%	64800.00	424800.00	85.964	10.96	14.62%	85.964	0	0		412627.2	0	412627.2	486900.096
	SITE SURFACING									0.00		0	0	0		0	0	0	0
47	Providing, Supplying and Laying three layers of Uncrushed / Crushed Stone Pebbles (Gravel) Fill in the first layer after compaction shall make minimum 50 mm thickness course / layer of 20 mm nominal size, Consolidated / Compacted and Rolled as per Specations.	sqm	1000	290.00	290000.00	18.00%	52200.00	342200.00	803.212	-196.79	-19.68%	803.212	0	0		232931.48	0	232931.48	274659.1464
48	Constructing coarse rubble hammer dressed U shape open surface drain with side wall 15x22 cm. in cement mortar 1:6 (1 cement : 6 Sand) & inside plastering with cement mortar 1:3 (1cement 3sand) excluding earth work &laying 10 cm cement concrete in 1:5:10 (1cement 5 sand 10 graded stone aggregate of 40 mm nominal size) and 7.5 cm cement concrete 1:2:4 (1 cement 2sand 4 graded stone aggregate of 20mm nominal size) and finished with a floating coat of neat cement complete wes per standard design	Rmtr	100	3100.00	310000.00	18.00%	55800.00	365800.00	11.4	-88.60	-88.60%			11.4	4521.97	0	51550.458	51550.458	60829.54044
49	Providing laying (in level or slopes) and jointing reinforced concrete heavy duty non - pressure pipes IS class NP 2 of the following internal diameter with flush joints including testing of joints complete.									0.00		0	0	0		0	0	0	0
a	250mm	Rmtr	50	1600.00	80000.00	18.00%	14400.00	94400.00	52	2.00	4.00%	52	0	0		83200	0	83200	98176
b	300mm	Rmtr	50	1800.00	90000.00	18.00%	16200.00	106200.00	4	-46.00	-92.00%			4	749.69	0	2998.76	2998.76	3538.5368

4.8.20

General Manager (C&D)
HPPTCL, Shimla-5

Item	Description	Unit	Qty.	Unit Price	Total Price	Goods and Service Tax		Total Amount including GST	Final Qty	Deviation in quantity w.r.t. Original Qty	Deviation with respect to awarded Quantity	Quantity within +/- 25%	Quantity Over + 25%	Qty for Analysed Unit Rate	Analyzed Unit rate	Ex-Works for up to 125%	Ex-Works for above +-25%	Total Ex-Works	Total Including GST @18%
				Local Currency (INR)	Local Currency (INR)	Rate	Amount												
c	450mm	Rmtr	50	2150.00	107500.00	18.00%	19350.00	126850.00	0	-50.00	-100.00%		0	0		0	0	0	0
50	Providing laying (in level or slopes) and jointing reinforced concrete heavy duty non - pressure pipes IS class NP 3 of the following internal diameter with flush joints including sealing of joints complete.									0.00									
a	450mm	Rmtr	45	2000.00	126000.00	18.00%	23040.00	151040.00	0	-40.00	-100.00%		0	0		0	0	0	0
b	600mm	Rmtr	45	4800.00	216000.00	18.00%	38880.00	254880.00	0	-45.00	-100.00%		0	0		0	0	0	0
51	Providing and fixing on wall face PVC Rain water pipes including fitting the joints with spun yarn and cement mortar 1:2 (1 cement : 2 sand) 100 mm dia	Rmtr	75	500.00	37500.00	18.00%	6750.00	44250.00	0	-75.00	-100.00%		0	0		0	0	0	0
52	Providing and fixing 0.80mm thick prepainted steel sheet in roofing with hot dipped metallic zinc coated sheet with top coat of regular modified polyster [RNP] orghanic coating of 20 microns over 5 microns primer coating to back coat of polyster of 5 microns over 5 microns primmer coating including fixing with prepainted iron J or L hooks, bolts and nuts 6mm diameter with prepainted limpet and rubber washers complete with all accessories as require as per the direction of Engineer-in- charge.	sqm	500	625.00	125000.00	18.00%	22500.00	147500.00	0	500.00	100.00%		0	0		0	0	0	0
53	Providing and fixing ridges or hips 60 cm overall with 0.80 mm thick prepainted steel sheets in roofing with hot dipped metallic zinc coated sheets with top coat of regular modified polyster organic coating of 20 mic rons over 5 microns primer coating + back coat of polyster of 5 microns over 5 microns primer coating including fixing with prepainted iron J or L hooks, bolts and nuts 6mm dia and prepainte GI limpet and bitumen washers complete with all accessories as required as per the direction of Engineer -in- charge.	rmt	75	650.00	63750.00	18.00%	11475.00	75225.00	0	-75.00	-100.00%		0	0		0	0	0	0
54	Providing and fixing 15 cm. Wide 45 cm. Overall semicircular prepainted sheet Sheet gutter with iron brackets 40x3 mm size bolts and nuts and washers etc. including making necessary corrections with rain water pipe complete as per design- 0.60mm thick sheet.	rmt	70	580.00	40600.00	18.00%	7308.00	47908.00	0	-70.00	-100.00%		0	0		0	0	0	0
55	PL PVC pipe 300 mm dia complete in all respects as directed by EIC	Rmtr	60	1300.00	78000.00	18.00%	14040.00	92040.00	0	-60.00	-100.00%		0	0		0	0	0	0
56	PVL 100 mm dia PVC pipes as per directions of EIC in weep holes of retaining/breast walls etc	Rmtr	50	1000.00	50000.00	18.00%	9000.00	59000.00	48.8	-1.20	-2.40%	48.8	0	0		48800	0	48800	57584
57	PVL 75/50 mm dia PVC pipes as per directions of EIC in weep holes of cable trenches	Rmtr	40	700.00	28000.00	18.00%	5040.00	33040.00	0	-40.00	-100.00%		0	0		0	0	0	0
58	Providing fix/gard jointing 230mm wideand 10mm thick PVC water stop seal conforming to ISI Technical specifications and directions of EIC	Rmtr	20	850.00	17000.00	18.00%	3060.00	20060.00	0	-20.00	-100.00%		0	0		0	0	0	0
59	Wire crates of G.I. Wire filled with boulders with square cut faces against the (wire crates to be measured and paid for separately)	cum	40	2500.00	100000.00	18.00%	18000.00	118000.00	0	-40.00	-100.00%		0	0		0	0	0	0
60	G.I. Wire 4 mm thick corresponding to SWG-8 15cmx15cm mesh	sqm	250	300.00	75000.00	18.00%	13500.00	88500.00	0	-250.00	-100.00%		0	0		0	0	0	0
61	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge)	Rmtr	60	700.00	42000.00	18.00%	7560.00	49560.00	0	-60.00	-100.00%		0	0		0	0	0	0
62	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge	sqm	250	800.00	200000.00	18.00%	36000.00	236000.00	0	-250.00	-100.00%		0	0		0	0	0	0
63	Road cum rail track complete in all aspects	Rmtr	55	10000.00	550000.00	18.00%	99000.00	649000.00	55	0.00	0.00%	55	0	0		550000	0	550000	649000

General Manager (C&D)
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Item	Description	Unit	Qty.	Unit Price	Total Price	Goods and Service Tax		Total Amount including GST	Final Qty	Deviation in quantity w.r.t. Original Qty.	Deviation with respect to awarded Quantity	Quantity within +/- 25%	Quantity Over + 25%	Qty for Analysed Unit Rate	Analysed Unit rate	Ex-Works for up to 125%	Ex-Works for above +-25%	Total Ex-Works	Total Including GST @18%
				Local Currency (INR)	Local Currency (INR)	Rate	Amount												
64	Supplying and Fixing Rolling Shutters of approved Make made of 80 mm x 1.25 mm M. S. Laths interlocked together through their entire length and joined together at the end by End Locks mounted on specially designed Pipe Shaft, with Brackets, Side Guides and arrangements for inside and outside locking with push pull operation complete but including the cost of the top cover and spring	sqm	40	4000.00	160000.00	18.00%	28800.00	188800.00	0	-40.00	-100.00%		0	0		0	0	0	0
65	Supplying and Fixing Galvanized Steel Barbed Wire (IS: 278 - 1982 Type – I) weighing 9.36 kg per 100 metres (minimum), Straining and Fixing to any type of Standard Rails, Straining Bolts including securing with and provision of Galvanized Mild Steel Wire, staples or steel pins etc as directed (Posts and struts of wood concrete ,steel etc and straining bolts shall be paid for separately	Rmtr	150	15.00	2250.00	18.00%	405.00	2655.00	0	-150.00	-100.00%		0	0		0	0	0	0
66	Providing and fixing Chain link fencing 2 40m height complete in all respects including posts/struts etc as per directions of Engineer-In-charge.	Rmtr	250	2800.00	700000.00	18.00%	126000.00	826000.00	0	-250.00	-100.00%		0	0		0	0	0	0
67	Providing and laying CI pipes including all pipe fittings and jointing in required grade for external sewerage system									0.00			0	0		0	0	0	0
a)	150 mm	Rmtr	100	2200.00	220000.00	18.00%	39600.00	259600.00	22	-78.00	-78.00%			22	1339.87	0	29477.14	29477.14	34783.0252
b)	100 mm	Rmtr	100	1300.00	130000.00	18.00%	23400.00	153400.00	0	-100.00	-100.00%		0	0		0	0	0	0
68	White washing with lime on undercoated wall surfaces two coats to give and even shade including throughly brooming the surface to remove all dirt dust mortar dirt and other foreign matter	sqm	1000	80.00	80000.00	18.00%	14400.00	94400.00	111.46	-888.54	-88.85%			111.46	22.94	0	2556.8924	2556.8924	3017.133032
69	Anti Termite chemical treatment as per IS :6313 and other relevant Indian standards/ Technical specifications and as per directions of EIC	Job	1	75000.00	75000.00	18.00%	13500.00	88500.00	0	-1.00	-100.00%		0	0		0	0	0	0
70	Any other items required for completion of work add yourself as this schedule is binding and final with no hidden items whatsoever to be done is NOT payable for civil work as extra as per final discretion of Engineer- in-charge															0	0	0	0
71	Furniture & Furnishing Items for rest camp	Lot		959840.6					1							959840.6	0	959840.6	1132611.908
	TOTAL				28953700.00		5211666.00	34165366.00								14176672.78	1392372.618	15906479.9	23489635.66

General Manager (C&D)
HPPTCL, Shimla-5

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Annexure-4

TENDER DOCUMENT No : 17 - SS / KFW / HPPTCL / 33/220 KV Additional Charor S/Stn												
Training Charges												
Name of Firm:		M/s Kanohar Electricals Limited in Collaboration with M/s Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan)										
Sr. No.	Description	Country where Training is to be Imparted	Number of Trainees	Training Duration		Training in India		Goods & Service Tax		Amount Including GST (INR)	Currency for Payment[1]	Remarks
				Per Person	Man working days	Unit Price (INR)	Total Price (INR)	Rate	Amount (INR)			
	Design, Operation and Maintenance including Procedures for Fault attending and replacement of parts at Manufacturer's / Suppliers Works as per following:											
a)	O&M of GIS	INDIA	3	5	15	10000.00	150000.00	18.00%	27000.00	177000.00	INR	At site
b)	Transformer maintenance	INDIA	3	5	15	10000.00	150000.00	18.00%	27000.00	177000.00	INR	At site
c)	Protection System	INDIA	3	5	15	10000.00	150000.00	18.00%	27000.00	177000.00	INR	At site
d)	SCADA & Automation	Not applicable	3	5	15	0.00	0.00		0.00	0.00		
e)	PLCC/FOTE/Communication Protocols	Not applicable	3	5	15	0.00	0.00		0.00	0.00		
	TOTAL						450000.00		81000.00	531000.00		

General Manager (C&D)
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ANNEXURE -I

INDIA NON JUDICIAL

Government of Himachal Pradesh

e-Stamp

Certificate No.	:	IN-HP54382566026848X
Certificate Issued Date	:	05-Aug-2025 04:18 PM
Account Reference	:	SELFPRINT (PU)/ hp-self/ SHIMLA/ HP-SM
Unique Doc. Reference	:	SUBIN-HPHP-SELF01892862846713X
Purchased by	:	SHANNY JASROTIA
Description of Document	:	Article 5 Agreement or Memorandum of an Agreement
Property Description	:	SUPPLEMENTARY TRANSMISSION SERVICE AGREEMENT
Consideration Price (Rs.)	:	50 (Fifty only)
First Party	:	HPPTCL
Second Party	:	HPSEBL
Stamp Duty Paid By	:	HPPTCL
Stamp Duty Amount(Rs.)	:	50 (Fifty only)

SELF PRINTED CERTIFICATE TO BE VERIFIED BY THE RECIPIENT AT WWW.SHCILESTAMP.COM

SUPPLEMENTARY TRANSMISSION SERVICE AGREEMENT

This Supplementary Agreement is executed on this .13.... day of ....August.. 2025, at Shimla between H.P. Power Transmission Corporation Ltd., a State Government owned Transmission Utility incorporated under the Companies Act, 1956, having its registered office at HIMFED Bhawan, Panjari, Shimla-171005 (hereinafter called "HPPTCL" which expression shall unless repugnant to the context or meaning thereof, includes its successors, administrators and permitted assigns) on the First Part.

General Manager (C&D)
HPPTCL, Totu and Shimla-5

AND

Chief Engineer (P&C) HPSEBL

General Manager (C&D)
HPPTCL, Shimla-5

6.1

Himachal Pradesh State Electricity Board Ltd., a State Government owned Distribution Utility incorporated by Government of Himachal Pradesh under the Companies Act 1956, having its registered office at Kumar House, Vidyut Bhawan, Shimla-171004 (hereinafter called "HPSEBL" which expression shall unless repugnant to the context or meaning thereof, includes its successors, administrators and permitted assigns) on the **Second Part**.

AND WHEREAS, HPPTCL is transmitting the power of HPSEBL through its system mentioned in Transmission Service Agreement executed between parties on 10.02.2012 and Supplementary Transmission Service Agreements signed between parties on 29.05.2018, 12.04.2021, 14.07.2022, 17.01.2023, 18.07.2024, 22.01.2025 and 05.04.2025. The revised list of HPPTCL system used by HPSEBL whose Transmission Service Agreement have been signed till date is placed at revised **Annexure-A of this agreement**.

AND WHEREAS, in accordance with the clause 5.2 of the Transmission Service Agreement dated 10.02.2012 executed between the parties, a Supplementary Agreement shall be signed as and when new Transmission elements owned by HPPTCL comes into operation and is being utilized by HPSEBL. Accordingly, the Supplementary Transmission Service Agreement (TSA) is required to be signed between the parties to include transmission assets mentioned under revised **Annexure-B** of this Agreement.

AND WHEREAS, in accordance with clause ***5.3. added in STSA dated 18.07.2024,*** the list of future elements approved for construction are mentioned under revised **Annexure-C** for signing of advance Supplementary Transmission Service Agreement (TSA) to be signed between the parties as a part of this Agreement.

AND WHEREAS, HPPTCL has signed Long Term Open Access (LTOA) Agreement with other beneficiaries for usage of STU system. As per Clause (45) of HPERC (Terms and Conditions for determination of Transmission Tariff) Regulations, 2023 "*The Annual Transmission Charges for the Transmission Licensee shall be determined, based on the norms as specified in these Regulations and recovered on monthly basis as transmission charge from the users who shall share the Transmission Charge in proportion of the allotted transmission capacity or contracted capacity, as the case may be.*"

AND WHEREAS, if Transmission Asset(s) included in Transmission Service Agreement are declared as interstate asset(s) in future, transmission tariff of such asset will be recovered in accordance with CERC Sharing of Transmission Charges Regulations, 2020 as amended from time to time.

AND WHEREAS, the tariff and its sharing for above mentioned assets is yet to be determined by Hon'ble HPERC and therefore, HPPTCL will approach/has approached Hon'ble HPERC for determination of the transmission charges. The system built/to be built upto interconnection points by the IPPs as per the provisions in the IAs/PPAs will not be considered for determination of the transmission charges to be paid by HPSEBL/other user(s)/beneficiary(ies). HPPTCL will charge HPSEBL/user(s) of the system as per the

General Manager (C&D)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

contracted capacity or approved capacity & their sharing as approved by the Hon'ble HPERC.

AND WHEREAS, this Supplementary Transmission Service Agreement (TSA) is hereby entered into and the **revised Annexure-A, Annexure-B and Annexure-C** shall form part of this supplementary agreement. **All other terms and conditions of the Original TSA dated 10.02.2012 and any additional terms and conditions agreed subsequently in supplementary agreements shall remain unaltered and in the full force.**

IN WITNESS whereof the parties have executed these presents through their Authorized Representatives on the dated mentioned above.

For and on the behalf of HPPTCL

Signature:

Name:. Er. Manoj Kumar

Designation: General Manager (C&D) HPPTCL, Vidyut Bhawan, Shimla-5

For and on the behalf of HPSEBL

Signature:

Name: ER. MANDEEP SINGH

Designation: Chief Engineer (S.. HPSEBL, Vidyut Bhawan, Shimla-171004

Witness

Signature: Er. Manmanjeet Singh

Name: Assistant Engineer

Designation: (Planning)

Witness

Signature:

Name: Er. Sandeep Bhardwaj

Designation: Sr. Executive Engineer

General Manager (C&D)
HPPTCL, Shimla-5

ANNEXURE-A

Transmission Elements with already executed TSA between HPPTCL & HPSEBL

Transmission Lines

Sr. No.	Name of the Line	Line Length (Kms)	Commercial Operation Date
A.	**400 kV Lines:**		
1.	D/C LILO of 400 kV Jhakhri to Panchkula Transmission Line at 400/220/66 kV Gumma Substation	2.85	31.10.2020
2.	400 kV D/C Lahal to Rajera (Chamera) Transmission line	35	10.01.2023
	Sub Total (A)	**37.85**	
B.	**220 kV Lines:**		
1.	220kV D/C Bairasul Pong line (one circuit LILO at Jassure)	0.240	09/1985
2.	220kV D/C Nalagarh (PGCIL) to Nalagarh line	3.500	07/2010
3.	220kV S/C line on D/C towers Dehar to Kangoo line	4.177	06/1999
4.	220kV D/C Kashang–Bhaba Transmission line	38.79	01.06.2016
5.	S/C LILO of 220 kV Prini to Nalagarh line of ADHPL at Phojal	6.8	05.06.2016
6.	S/C LILO of 220 kV Kashang-Wangtoo line	-	23.03.2017
7.	220 kV S/C line on D/C towers from Karian to Rajera	3.7	05/2018
8.	220 kV S/C line on D/C Tower from Lahal to Budhil	1.895	07.07.2020
9.	220kV D/C Hatkoti-Gumma Transmission line.	26.2	02.11.2020
10.	220 kV D/C Dehan to Hamirpur Transmission line	57.94	09.06.2022
11.	220 kV D/C Transmission Line from **Sunda to Hatkoti.**	25.3	10.06.2022
12.	Additional Circuit LILO of 220 kV D/C Kunihar- Pinjore line at Baddi Substation alongwith 2 No. of 220 kV bays.	-	Baddi to Kunihar on 28.04.2022 &Baddi to Pinjore on 23.06.2022
13.	S/C LILO of 220 kV Karian Rajera line at 220/132 kV Mazra Substation	18	**20.01.2024**
14.	Additional Circuit stringing of 220 KV Karian to Rajera line	No increase in Km only additional Ckt Km increased.	**20.01.2024**
15.	220 kV D/C Bajoli Holi to Lahal Line	18.34	04.11.2021

Chief Engineer (SO)

General Manager (C&D)
HPPTCL, Tutikandi Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

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16.	S/C LILO of 220 kV D/C Bajoli Holi to Lahal Transmission Line at 220/66 kV Heiling Substation.	0.5	**21.12.2024**
17.	220kV (Zebra) M/C line from 400/220 kV Kala Amb Substation PKATL to 220/132/33 kV Andheri Substation of HPPTCL. (Two circuits terminated at Andheri and Two Circuits extended to Giri).	3	**31.05.2024**
18.	220-132 kV (Zebra) M/C line from 220/132/33 kV Andheri Substation till Devani. (Upper circuits to be charged on 220 kV towards Giri and lower circuits on 132 kV towards Johron)	9	**29.09.2024**
19.	Additional Circuit stringing of 220 kV Dehar to Kangoo line.	No increase in Km only additional Ckt. km increased.	**S.C.O.D. – September 2025**
20.	220 kV D/C Nehrian to Una Transmission line.	37	**C.Y. 2028**
21.	D/C LILO of 220 kV Khodri to Majri line at 220/132 kV Paonta Sahib.	1	**C.Y. 2028**
22.	S/C LILO of 220 kV D/C Bhakhra to Jamalpur line at 220/132 kV Tahliwal Substation.	0.5	**December 2025**
23.	Upgradation of 132 kV S/C Jamta to Giri line to 220 kV D/C line from Jamta to Giri	23	**C.Y. 2028**
	Sub Total (B)	**278.882**	
C.	**132 kV Lines:**		
1.	132kV S/C Dehar-Kangoo line	2.992	12/1998
2.	132kV D/C Giri-Abdullapur line	16.220	08/1982
3.	132kV Giri-kulhal Line	17.40	04/1978
4.	132kV D/C Shanan-Bassi Line	5.00	03/1970
5.	132kV S/C Kangra Tap	0.135	02/1979
6.	D/C LILO of 132 kV Kurthala-Bathri line at 220/132 kV Mazra Substation	7.2	**16.11.2024**
7.	LILO of 132 kV S/C line from Bassi to Dehan at 220/132 kV Dehan (Patti) substation of HPPTCL	0.65	**20.08.2024**
8.	S/C LILO of 132 kV Bassi Hamirpur line at 132/33 kV Dharampur Substation	Less than 0.5	**S.C.O.D. – October 2025**
9.	Additional Circuit stringing of 132 kV line from Devani to Johron.	No increase in Km only additional Ckt Km increased.	**Ready for charging, shall be charged after construction of terminal towers and equipment at Johron Substation.**
10.	LILO of 132 kV S/C Gaura Giri line at 132/33 kV Charna.	28	**C.Y. 2029**

General Manager
HPPTCL, Totikandi Shimla-5

Chief Engineer

General Manager (C&D)
HPPTCL, Shimla-5

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11.	LILO of 132 kV S/C Dehan (Patti) to Bassi Transmission line at Baijnath.	7	**C.Y. 2029**
12.	S/C LILO of 132 kV D/C Hamirpur to Kangoo line at Ghumarwin.	15	**C.Y. 2029**
13.	132 kV D/C Transmission line from 220/132 kV Patti Substation to proposed 132/33 kV Dharamshala Substation.	20	**C.Y. 2029**
14	Termination of additional circuit of 132 kV Andheri to Johron line by providing additional towers.	-	**C.Y. 2027**
	Sub Total (C)	**120.097**	
D.	**66 kV Lines:**		
1.	66kV Shanan-Bijni Line	35.00	10/1969
2.	66kV S/C Pong-Sansarpur Terrace Line	6.300	10/1990
3.	66kV S/C Bhakra-Una LILO Gwalthai Line	16.724	12/1985
4.	66kV Pinjore-Parwanoo Line	8.230	04/1956
5.	66 kV D/C Urni to Wangtoo line	13.38	July 2022
6.	66 kV D/C Nirmand to Kotla line	23	04.03.2023
	Sub Total (D)	**102.634**	
E.	**33 kV Lines:**		
1.	33 kV D/C Palchan to Prini line	8.6	**31.12.2024**
	Sub Total E	**8.6**	
	Grand Total (A+B+C+D+E)	**548.063**	

Substation List

Sr. No	Name of Substation	Transmission Capacity (MVA)	Commercial Operation date
1.	22/66/220 kV Bhoktoo Substation	220/66 kV = 31.5 66/22kV=2x10	23.03.2017
2.	33/220 KV Karian Substation	63	12.05.2018
3.	132/33kV Pandoh Substation alongwith LILO of one circuit of 132kV Larji-Bijni Transmission line	2x31.5	24.08.2019
4.	132/33kV Chambi Substation alongwith LILO of 132kV S/C Dehra-Kangra Transmission Line	2x 31.5	28.08.2019
5.	66/220/400kV Wangtoo Substation	400/220 = 2x315 220/66 = 2x100	29.09.2019
6.	33/220kV Phozal Substation	100	05.06.2016
7.	66kV Urni Substation	NA	26.09.2020
8.	400/220/33 kV Lahal Substation	400/220= 630 220/33= 63	Nov. 2020
9.	400/220/66kV Sub-Station at **Gumma (Pragatinagar).**	400/220= 2x315 220/66= 2x 63	**400/220 - 01.11.2022** **220/66 – Completed**
10.	220kV Switching Substation at **Hatkoti.**	NA	**02.02.2022**
11.	220/132 kV Dehan Substation	220/132= 2x100	**26.07.2022**

user(s)/benefi...

General Manager (C&D)
HPPTCL, Shimla-5

12.	220/132/66 kV Substation at **Sunda.**	220/132=2x100 220/66=100	**03.08.2022**
13.	66/22 kV Nirmand Substation	20	**20.08.2022**
14.	220/132 kV Mazra Substation	2x100	**06.04.2022**
15.	220/33 kV Prini Substation	31.5	**20.01.2024**
16.	220/132/33 kV Kala Amb Substation	220/132=200 132/33=2X25/31.5	**08.01.2024**
17.	33 kV Palchan Switching Station	NA	**31.05.2024**
18.	220/66 kV Heiling Substation	100	**22.04.2025**
19.	132/33 kV Dharampur Substation	2x31.5	**21.12.2024**
20.	220/132 kV Kangoo Substation	200	**S.C.O.D. – October 2025**
21.	220/132 kV Una Substation alongwith interconnection with 132/33 kV Solar Pooling Station at Pekhubela	2x80/100	**S.C.O.D. – September 2025**
22.	220/132 kV Tahliwal Substation	100	**C.Y. 2028**
23.	132/33 kV Baijnath Substation	2x31.5	**S.C.O.D. - December 2025**
24.	220/132 kV Paonta Sahib Substation	2x100	**C.Y. 2029**
25.	132/33 kV Charna Substation	2x20	**C.Y. 2028**
26.	Additional Transformer at 220/33 kV Karian Substation	50/63	**C.Y. 2029**
27.	132/33 kV Ghumarwin Substation	2 x 31.5	**C.Y. 2028**
28.	Additional 220/132 kV, 200 MVA Transformer at 220/132 kV Kala Amb Substation at Andheri.	200	**C.Y. 2029**
29.	132/33 kV Dharamshala Substation	2X31.5	**C.Y. 2027**
30.	Extension of existing 132kV Bus Bar, Creation of additional 132kV Bay at 132/33/11 kV Sub-station at Kala Amb (Johron) along with associated works.*	-	**C.Y. 2029**
	Total	**4989 MVA**	**C.Y. 2027**

General Manager (C&D)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

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ANNEXURE-B

Transmission Elements commissioned/under construction by HPPTCL which are being used/ will be used by HPSEBL

Sr. No	Name of Substation	Capacity (MVA)	S.C.O.D.
1.	220/132/33 kV Charor Substation	220/132=100 220/33=100	10.05.2023
2.	132/33 kV Barsaini Substation	2 X 31.5	S.C.O.D.- June 2026
	TOTAL	263	

Sr. No	Name of Transmission Line	Line Length (kms.)	Commercial Operation Date
1.	220 kV D/C Charor to Banala Line	18	24.07.2019
2.	132 kV D/C Barsaini to Charor line	37	S.C.O.D. – June 2026
	Total	55	

ANNEXURE-C

Transmission Elements being taken up for construction wherein advanced Supplementary agreement is being signed as a part of this agreement

Sr. No	Name of Element	Planned Capacity (MVA)
1.	Providing 132/33 kV 50/63 MVA Additional Transformer at 132/33 kV Kurthala Substation	63
	TOTAL	63

Note*- For elements at Sr. No. 1, O&M Agreement will be signed between HPPTCL and HPSEBL to ensure O &M of Substations by HPSEBL as the existing substation is under ownership of HPSEBL. HPPTCL will pay suitable O&M Charges to HPSEBL.

General Manager (C&D)
HPPTCL, Shimla-5

ANNEXURE - 7

सत्यमेव जयते

INDIA NON JUDICIAL

Government of Himachal Pradesh

e-Stamp

Certificate No.	:	IN-HP54382566026848X
Certificate Issued Date	:	05-Aug-2025 04:18 PM
Account Reference	:	SELFPRINT (PU)/ hp-self/ SHIMLA/ HP-SM
Unique Doc. Reference	:	SUBIN-HPHP-SELF01892862846713X
Purchased by	:	SHANNY JASROTIA
Description of Document	:	Article 5 Agreement or Memorandum of an Agreement
Property Description	:	SUPPLEMENTARY TRANSMISSION SERVICE AGREEMENT
Consideration Price (Rs.)	:	50 (Fifty only)
First Party	:	HPPTCL
Second Party	:	HPSEBL
Stamp Duty Paid By	:	HPPTCL
Stamp Duty Amount(Rs.)	:	50 (Fifty only)

SELF PRINTED CERTIFICATE TO BE VERIFIED BY THE RECIPIENT AT WWW.SHCILESTAMP.COM

SUPPLEMENTARY TRANSMISSION SERVICE AGREEMENT

This Supplementary Agreement is executed on this 13.... day of ...August.. 2025, at Shimla between H.P. Power Transmission Corporation Ltd., a State Government owned Transmission Utility incorporated under the Companies Act, 1956, having its registered office at HIMFED Bhawan, Panjari, Shimla-171005 (hereinafter called "HPPTCL" which expression shall unless repugnant to the context or meaning thereof, includes its successors, administrators and permitted assigns) on the First Part.

General Manager (C&D)
HPPTCL, Totu and Shimla-5

AND

Chief Engineer

General Manager (C&D)
HPPTCL, Shimla-5

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Himachal Pradesh State Electricity Board Ltd., a State Government owned Distribution Utility incorporated by Government of Himachal Pradesh under the Companies Act 1956, having its registered office at Kumar House, Vidyut Bhawan, Shimla-171004 (hereinafter called "HPSEBL" which expression shall unless repugnant to the context or meaning thereof, includes its successors, administrators and permitted assigns) on the **Second Part**.

AND WHEREAS, HPPTCL is transmitting the power of HPSEBL through its system mentioned in Transmission Service Agreement executed between parties on 10.02.2012 and Supplementary Transmission Service Agreements signed between parties on 29.05.2018, 12.04.2021, 14.07.2022, 17.01.2023, 18.07.2024, 22.01.2025 and 05.04.2025. The revised list of HPPTCL system used by HPSEBL whose Transmission Service Agreement have been signed till date is placed at revised **Annexure-A of this agreement**.

AND WHEREAS, in accordance with the clause 5.2 of the Transmission Service Agreement dated 10.02.2012 executed between the parties, a Supplementary Agreement shall be signed as and when new Transmission elements owned by HPPTCL comes into operation and is being utilized by HPSEBL. Accordingly, the Supplementary Transmission Service Agreement (TSA) is required to be signed between the parties to include transmission assets mentioned under revised **Annexure-B** of this Agreement.

AND WHEREAS, in accordance with clause ***5.3. added in STSA dated 18.07.2024,*** the list of future elements approved for construction are mentioned under revised **Annexure-C** for signing of advance Supplementary Transmission Service Agreement (TSA) to be signed between the parties as a part of this Agreement.

AND WHEREAS, HPPTCL has signed Long Term Open Access (LTOA) Agreement with other beneficiaries for usage of STU system. As per Clause (45) of HPERC (Terms and Conditions for determination of Transmission Tariff) Regulations, 2023 "*The Annual Transmission Charges for the Transmission Licensee shall be determined, based on the norms as specified in these Regulations and recovered on monthly basis as transmission charge from the users who shall share the Transmission Charge in proportion of the allotted transmission capacity or contracted capacity, as the case may be;*"

AND WHEREAS, if Transmission Asset(s) included in Transmission Service Agreement are declared as interstate asset(s) in future, transmission tariff of such asset will be recovered in accordance with CERC Sharing of Transmission Charges Regulations, 2020 as amended from time to time.

AND WHEREAS, the tariff and its sharing for above mentioned assets is yet to be determined by Hon'ble HPERC and therefore, HPPTCL will approach/has approached Hon'ble HPERC for determination of the transmission charges. The system built/to be built upto interconnection points by the IPPs as per the provisions in the IAs/PPAs will not be considered for determination of the transmission charges to be paid by HPSEBL/other user(s)/beneficiary(ies). HPPTCL will charge HPSEBL/user(s) of the system as per the

General Manager (C&D)
HPPTCL, Totlikandi Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

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contracted capacity or approved capacity & their sharing as approved by the Hon'ble HPERC.

AND WHEREAS, this Supplementary Transmission Service Agreement (TSA) is hereby entered into and the **revised Annexure-A, Annexure-B and Annexure-C** shall form part of this supplementary agreement. **All other terms and conditions of the Original TSA dated 10.02.2012 and any additional terms and conditions agreed subsequently in supplementary agreements shall remain unaltered and in the full force.**

IN WITNESS whereof the parties have executed these presents through their Authorized Representatives on the dated mentioned above.

For and on the behalf of HPPTCL

Signature:

Name: Er Manoj Kumar

Designation: General Manager (C&D) HPPTCL, Shimla-5

For and on the behalf of HPSEBL

Signature:

Name: ER. MANDEEP SINGH

Designation: Chief Engineer (S.
HPSEBL, Vidyut Bhawan,
Shimla-171004

Witness

Signature: Er Harmanjeet Singh

Name: Assistant Engineer

Designation: (Planning)

Witness

Signature:

Name: Er. Sandeep Bhardwaj

Designation: Sr. Executive Engineer

General Manager (C&D)
HPPTCL, Shimla-5

ANNEXURE-A

Transmission Elements with already executed TSA between HPPTCL & HPSEBL

Transmission Lines

Sr. No.	Name of the Line	Line Length (Kms)	Commercial Operation Date
A.	**400 kV Lines:**		
1.	D/C LILO of 400 kV Jhakhri to Panchkula Transmission Line at 400/220/66 kV Gumma Substation.	2.85	31.10.2020
2.	400 kV D/C Lahal to Rajera (Chamera) Transmission line	35	10.01.2023
	Sub Total (A)	**37.85**	
B.	**220 kV Lines:**		
1.	220kV D/C Bairasul Pong line (one circuit LILO at Jassure)	0.240	09/1985
2.	220kV D/C Nalagarh (PGCIL) to Nalagarh line	3.500	07/2010
3.	220kV S/C line on D/C towers Dehar to Kangoo line	4.177	06/1999
4.	220kV D/C Kashang–Bhaba Transmission line	38.79	01.06.2016
5.	S/C LILO of 220 kV Prini to Nalagarh line of ADHPL at Phojal	6.8	05.06.2016
6.	S/C LILO of 220 kV Kashang-Wangtoo line	-	23.03.2017
7.	220 kV S/C line on D/C towers from Karian to Rajera.	3.7	05/2018
8.	220 kV S/C line on D/C Tower from Lahal to Budhil	1.895	07.07.2020
9.	220kV D/C Hatkoti-Gumma Transmission line.	26.2	02.11.2020
10.	220 kV D/C Dehan to Hamirpur Transmission line.	57.94	09.06.2022
11.	220 kV D/C Transmission Line from **Sunda to Hatkoti.**	25.3	10.06.2022
12.	Additional Circuit LILO of 220 kV D/C Kunihar- Pinjore line at Baddi Substation alongwith 2 No. of 220 kV bays.	-	Baddi to Kunihar on 28.04.2022 &Baddi to Pinjore on 23.06.2022
13.	S/C LILO of 220 kV Karian Rajera line at 220/132 kV Mazra Substation	18	**20.01.2024**
14.	Additional Circuit stringing of 220 KV Karian to Rajera line	No increase in Km only additional Ckt Km increased.	**20.01.2024**
15.	220 kV D/C Bajoli Holi to Lahal Line	18.34	11.2021

General Manager (C&D)
HPPTCL, Vaikandi Shimla-5

Chief Engineer (SO)

General Manager (C&D)
HPPTCL, Shimla-5
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16.	S/C LILO of 220 kV D/C Bajoli Holi to Lahal Transmission Line at 220/66 kV Heiling Substation.	0.5	**21.12.2024**
17.	220kV (Zebra) M/C line from 400/220 kV Kala Amb Substation PKATL to 220/132/33 kV Andheri Substation of HPPTCL. (Two circuits terminated at Andheri and Two Circuits extended to Giri).	3	**31.05.2024**
18.	220-132 kV (Zebra) M/C line from 220/132/33 kV Andheri Substation till Devani. (Upper circuits to be charged on 220 kV towards Giri and lower circuits on 132 kV towards Johron)	9	**29.09.2024**
19.	Additional Circuit stringing of 220 kV Dehar to Kangoo line.	No increase in Km only additional Ckt. km increased.	**S.C.O.D. – September 2025**
20.	220 kV D/C Nehrian to Una Transmission line.	37	**C.Y. 2028**
21.	D/C LILO of 220 kV Khodri to Majri line at 220/132 kV Paonta Sahib.	1	**C.Y. 2028**
22.	S/C LILO of 220 kV D/C Bhakhra to Jamalpur line at 220/132 kV Tahliwal Substation.	0.5	**December 2025**
23.	Upgradation of 132 kV S/C Jamta to Giri line to 220 kV D/C line from Jamta to Giri	23	**C.Y. 2028**
	Sub Total (B)	**278.882**	
C.	**132 kV Lines:**		
1.	132kV S/C Dehar-Kangoo line	2.992	12/1998
2.	132kV D/C Giri-Abdullapur line	16.220	08/1982
3.	132kV Giri-kulhal Line	17.40	04/1978
4.	132kV D/C Shanan-Bassi Line	5.00	03/1970
5.	132kV S/C Kangra Tap	0.135	02/1979
6.	D/C LILO of 132 kV Kurthala-Bathri line at 220/132 kV Mazra Substation	7.2	**16.11.2024**
7.	LILO of 132 kV S/C line from Bassi to Dehan at 220/132 kV Dehan (Patti) substation of HPPTCL	0.65	**20.08.2024**
8.	S/C LILO of 132 kV Bassi Hamirpur line at 132/33 kV Dharampur Substation	Less than 0.5	**S.C.O.D. – October 2025**
9.	Additional Circuit stringing of 132 kV line from Devani to Johron.	No increase in Km only additional Ckt Km increased.	**Ready for charging, shall be charged after construction of terminal towers and equipment at Johron Substation.**
10.	LILO of 132 kV S/C Gaura Giri line at 132/33 kV Charna.	28	**C.Y. 2029**

General Manager
HPPTCL, Tutikandi Shimla

Chief Engineer

General Manager (C&D)
HPPTCL, Shimla-5

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11.	LILO of 132 kV S/C Dehan (Patti) to Bassi Transmission line at Baijnath.	7	**C.Y. 2029**
12.	S/C LILO of 132 kV D/C Hamirpur to Kangoo line at Ghumarwin.	15	**C.Y. 2029**
13.	132 kV D/C Transmission line from 220/132 kV Patti Substation to proposed 132/33 kV Dharamshala Substation.	20	**C.Y. 2029**
14.	Termination of additional circuit of 132 kV Andheri to Johron line by providing additional towers.	-	**C.Y. 2027**
	Sub Total (C)	**120.097**	
D.	**66 kV Lines:**		
1.	66kV Shanan-Bijni Line	35.00	10/1969
2.	66kV S/C Pong-Sansarpur Terrace Line	6.300	10/1990
3.	66kV S/C Bhakra-Una LILO Gwalthai Line	16.724	12/1985
4.	66kV Pinjore-Parwanoo Line	8.230	04/1956
5.	66 kV D/C Urni to Wangtoo line	13.38	July 2022
6.	66 kV D/C Nirmand to Kotla line	23	04.03.2023
	Sub Total (D)	**102.634**	
E.	**33 kV Lines:**		
1.	33 kV D/C Palchan to Prini line	8.6	**31.12.2024**
	Sub Total E	**8.6**	
	Grand Total (A+B+C+D+E)	**548.063**	

Substation List

Sr. No	Name of Substation	Transmission Capacity (MVA)	Commercial Operation date
1.	22/66/220 kV Bhoktoo Substation	220/66 kV = 31.5 66/22kV=2x10	23.03.2017
2.	33/220 KV Karian Substation	63	12.05.2018
3.	132/33kV Pandoh Substation alongwith LILO of one circuit of 132kV Larji-Bijni Transmission line	2x31.5	24.08.2019
4.	132/33kV Chambi Substation alongwith LILO of 132kV S/C Dehra-Kangra Transmission Line	2x 31.5	28.08.2019
5.	66/220/400kV Wangtoo Substation	400/220 = 2x315 220/66 = 2x100	29.09.2019
6.	33/220kV Phozal Substation	100	05.06.2016
7.	66kV Urni Substation	NA	26.09.2020
8.	400/220/33 kV Lahal Substation	400/220= 630 220/33= 63	Nov. 2020
9.	400/220/66kV Sub-Station at **Gumma (Pragatinagar).**	400/220= 2x315 220/66= 2x 63	**400/220 - 01.11.2022** **220/66 – Completed**
10.	220kV Switching Substation at **Hatkoti.**	NA	**02.02.2022**
11.	220/132 kV Dehan Substation.	220/132= 2x100	**26.07.2022**

user(s)/benefi...

General Manager (C&D)
HPPTCL, Shimla-5

12.	220/132/66 kV Substation at **Sunda.**	220/132=2x100 220/66=100	**03.08.2022**
13.	66/22 kV Nirmand Substation	20	**20.08.2022**
14.	220/132 kV Mazra Substation	2x100	**06.04.2022**
15.	220/33 kV Prini Substation	31.5	**20.01.2024**
16.	220/132/33 kV Kala Amb Substation	220/132=200 132/33=2X25/31.5	**08.01.2024**
17.	33 kV Palchan Switching Station	NA	**31.05.2024**
18.	220/66 kV Heiling Substation	100	**22.04.2025**
19.	132/33 kV Dharampur Substation	2x31.5	**21.12.2024**
20.	220/132 kV Kangoo Substation	200	**S.C.O.D. – October 2025**
21.	220/132 kV Una Substation alongwith interconnection with 132/33 kV Solar Pooling Station at Pekhubela	2x80/100	**S.C.O.D. – September 2025**
22.	220/132 kV Tahliwal Substation	100	**C.Y. 2028**
23.	132/33 kV Baijnath Substation	2x31.5	**S.C.O.D. - December 2025**
24.	220/132 kV Paonta Sahib Substation	2x100	**C.Y. 2029**
25.	132/33 kV Charna Substation	2x20	**C.Y. 2028**
26.	Additional Transformer at 220/33 kV Karian Substation	50/63	**C.Y. 2029**
27.	132/33 kV Ghumarwin Substation	2 x 31.5	**C.Y. 2028**
28.	Additional 220/132 kV, 200 MVA Transformer at 220/132 kV Kala Amb Substation at Andheri.	200	**C.Y. 2029**
29.	132/33 kV Dharamshala Substation	2X31.5	**C.Y. 2027**
30.	Extension of existing 132kV Bus Bar, Creation of additional 132kV Bay at 132/33/11 kV Sub-station at Kala Amb (Johron) along with associated works *	-	**C.Y. 2029**
	Total	**4989 MVA**	**C.Y. 2027**

General Manager (C&D)
HPPTCL, Tara ... Shimla-5

7.8

ANNEXURE-B

Transmission Elements commissioned/under construction by HPPTCL which are being used/ will be used by HPSEBL

Sr. No	Name of Substation	Capacity (MVA)	S.C.O.D.
1	220/132/33 kV Charor Substation	220/132=100 220/33=100	10.05.2023
2.	132/33 kV Barsaini Substation	2 X 31.5	S.C.O.D.- June 2026
	TOTAL	263	

Sr. No	Name of Transmission Line	Line Length (kms.)	Commercial Operation Date
1.	220 kV D/C Charor to Banala Line	18	24.07.2019
2.	132 kV D/C Barsaini to Charor line	37	S.C.O.D. – June 2026
	Total	55	

ANNEXURE-C

Transmission Elements being taken up for construction wherein advanced Supplementary agreement is being signed as a part of this agreement

Sr. No	Name of Element	Planned Capacity (MVA)
1	Providing 132/33 kV 50/63 MVA Additional Transformer at 132/33 kV Kurthala Substation	63
	TOTAL	63

Note*- For elements at Sr. No. 1, O&M Agreement will be signed between HPPTCL and HPSEBL to ensure O &M of Substations by HPSEBL as the existing substation is under ownership of HPSEBL. HPPTCL will pay suitable O&M Charges to HPSEBL.

General Manager (C&D)
HPPTCL, Shimla-5

7.9

ANNEXURE-8A

H.P. POWER TRANSMISSION CORPORATION LTD SHIMLA.

MINUTES OF 36TH MEETING OF THE BOARD OF DIRECTORS OF THE CORPORATION HELD ON 21ST MARCH, 2018 AT 10.30 AM AT THE OFFICE-CHAMBER OF THE CHIEF SECRETARY, GOVT.OF H.P., H.P. SECTT., SHIMLA -171002.

PRESENT:

1. Sh. Vineet Chawdhry, IAS Chief Secretary to the Govt. of H.P.	Chairman
2. Sh. R. D. Dhiman, IAS Pr. Secretary (MPP & Power) to the Govt. of H.P.	Director
3. Dr. Ajay Sharma, IAS Invitee Director of Energy, Govt. of. H.P.	Special
4. Sh. Hans Raj Chauhan, IAS Special Secretary (Finance)-cum-DIF Govt. of H.P.	Special Invitee
5. Sh. Devesh Kumar, IAS Managing Director, HPPCL	Director
6. Er. R. K. Sharma Managing Director, HPPTCL	Director
7. Er. Rajesh Singh, Director (Projects), HPPTCL.	Director
8. Er. Keshav Singh Attri, Director (P&C), HPPTCL.	Director

In Attendance:

1. Sh. Sudershan Kumar Sharma, Company Secretary, HPPCL.

Leave of absence was granted to Dr. Shrikant Baldi, IAS & Smt. Manisha Nanda, IAS, who could not attend the meeting.

Thereafter the item wise agenda was taken up in the following order.

CHAIRMAN INITIALS

General Manager (C&D)
HPPTCL, Shimla-5

9.A.1

from proposed KfW Loan under INR 716 crore and NCES Grant for HPPTCL approved KfWs Intrastate Transmission System in Himachal Pradesh under Green Energy Corridors (GEC)I.

After detailed deliberations and discussions, the Board confirmed the Memorandum.

The Managing Director/Director (P&C) was authorized to take further necessary action in this regard.

Item No.36.05 **Circular Resolution in respect of award for – "Construction of 132/220 KV GIS substation having 132 & 220 KV GIS equipments, 3x25.56/34.08/42.6 MVA, single phase auto transformers and other substation equipments and associated civil works at Charor in district Kullu of Himachal Pradesh on turnkey basis (complete package)". Approval thereof.**

The Director (P & C) explained the Memorandum and the action taken after its approval by the Board through circulation. It was informed that after the approval of the Board, award has been placed on the Firm M/S KANOHAR ELECTRICALS LIMITED, MEERUT U.P. (INDIA) FOR INR 68,36,74,089/-. The cost of this Substation is to be met from proposed ADB (Tranche-II) Loan under 350 M$ approved ADB's Multi Tranche funding facility (MFF) under ADB's Himachal Pradesh Clean Energy Transmission Investment Program (HPCETIP).

After detailed deliberations and discussions, the Board confirmed the Memorandum

The Managing Director/Director (P&C) was authorized to take further necessary action in this regard.

Item No.36.06 **Memorandum for the information of the Board of Directors of the Company in respect of tenders awarded for the works in the competency of the Managing Director.**

The Managing Director and Director (P&C) informed the Board that the Corporation has awarded the tenders, with in the powers delegated, for the following works:

1. Construction of 132 kV D/C Transmission line on towers from 33/132 kV pooling sub-station at Barsaini to 132/220 kV Pooling substation at Charor in Kullu District of Himachal Pradesh on Turnkey basis (Complete Package).

CHAIRMAN'S INITIALS

General Manager (C&D)
HPPTCL, Shimla-5

8.A.2

ANNEXURE – 8B

INDIA RESIDENT MISSION
4, San Martin Marg, Chanakyapuri
New Delhi 110 021, India
P.O. Box 5331, Chanakyapuri HPO
Tel +91 11 2410 7200
Fax +91 11 2687 0955/2419 4273
www.adb.org/India

FAX

To:	Mr. J.P.Kalta Managing Director Himachal Pradesh Power Transmission Corporation Limited (HPPTCL) , Shimla , India	Date: Fax:	17 October 2017 01772832307
Originator:	Jigar A. Bhatt, Project Officer, Energy	Approved by:	Kenichi Yokoyama Country Director

Subject: Loan 3001-IND: Himachal Pradesh Clean Energy Transmission Investment Program (Tranche-2)
— Technical Bid Evaluation Report (TBER) of Bid No.: 27-SS/ADB/HPPTCL/ 220 KV GIS CHAROR Sub-Station

Dear Mr. Sharma :

1. We refer to your letter no. HPPTCL/Contracts/ADB CHAROR/2017-Camp-01 dated 10 October 2017, submitting the Technical Bid Evaluation Report (TBER) of captioned package for ADB review and approval.

2. We have reviewed you TBER and have no–objection to your recommendation to consider the technical bids of the (i) M/s Kanohar Electricals Ltd. Meerut ; (ii) M/s Shyam Indus Power Solution New Delhi JV with M/s New Northeast Electric Group High Voltage Switchgear Co. Ltd.; (iii) M/s GE T&D India Ltd. Noida India.; (iv) M/s Technofab Engineering Ltd. New Delhi JV with M/s Sieyuan Electric Co. Ltd Shanghai, China.; (v) M/s Toshiba Transmission & Distribution System (India) Pvt. Ltd.; (vi) M/s Vijai Electricals Ltd. Hyderabad.; and (vii) M/s Bajaj Electricals Ltd. Mumbai JV with M/s Tai'an Taishan High Voltage Switchgear China; as technically responsive and open their financial bids, and bids of (i) M/s Shyam Power India Ltd. Gurgaon; and (ii) M/s TBEA Energy Ltd Vadodara Gujarat as non-responsive.

Sincerely

for Kenichi Yokoyama
Country Director

cc: Mr. Rajesh Singh , Director (Project) , HPPTCL, Shimla
Mr. Keshav Attri , Director (C&P) , HPPTCL , Shimla

Dir. (P)
Dir.
G.M.
G.M.
A.G.M.
Sr. Mgr. (P&A)

4646
25/10/2017

General Manager (C&D)
HPPTCL, Shimla-5

8B.1

BEFORE THE LAND ACQUISITION COLLECTOR HPPTCL BAROWALIA HOUSE, KHALINI, SHIMLA-2

AWARD NO: 4

Date of Announcement : 10.03.2014

ANNEXURE -9A

IN THE MATTER OF:

Acquisition of land measuring 14-00-15 Bigha situated in village Phati Shilihar , Tehsil Bhunter, Distt. Kullu, (H.P.) for the construction of 132/ 220 kV Substation at Chharor.

PRESENT: NONE:

AWARD:

The Himachal Pradesh Power Transmission Corporation Ltd., has proposed to acquire land for the construction of 132/ 220 kV substation in village Phati Shilihar, Tehsil Bhunter, Distt. Kullu, (H.P.) at its own expenses and moved the case to the Himachal Government for issue of notification u/s -4 of the Land acquisition Act 1894. The Govt. of Himachal Pradesh issued notification under section -4, read with section 17 (4), vide notification No. Vidyut-Chh(5)- 31/2013, dated 26.09.2013, in which land kitte-18, measuring 14-00-15 Bigha situated in village Phati Shilihar, Tehsil Bhunter, Distt. Kullu, (H.P.) for the construction of 132/220 kV Substation at Chharor was notified for the acquisition. This notification was published in two daily newspapers i.e Dainik Jagaran and The Tribune on 03.10.2013 and published in the Rajpatra on 27.09.2013. The public notice of the substance of this notification was given through Tehsildar Bhunter on 08.10.2013.

Since section 17(4) of the act was made applicable in this case therefore enquiry as contemplated u/s 5 (A) stands dispensed with and a declaration u/s 6 and direction to collector to proceed further with the acquisition u/s 7 of the land acquisition act was issued by the state government vide notification No. Vidyut-Chh(5)- 31/2013, dated 26.11.2013 for the same land as notified u/s 4 read with section 17(4) of the Act. This notification was also published in two daily newspapers i.e. Amar Ujala and The tribune on 06.12.2013 and published in the Rajpatra on 28.11.2013. The public notice of the substance of this notification was given through Tehisildar Bhunter on 30.11.2013.

Pursuant to the direction made u/s-7, land required to be acquired for the construction of 132/220 kV Substation in village Phati Shilihar, Tehsil Bhunter, Distt. Kullu, (H.P.) was caused to be verified u/s-8 of the land acquisition act by the revenue staff of this office and field office.

District	Tehsil	Village	Kh. No.	Area (Bigha)
Kullu	Bhunter	Phati Shilihar	3456/2	00-16-02
			3457/2	00-16-14
			3458/2	00-16-18
			3463	01-07-00
			3464	01-02-00
			3465	01-05-00

General Manager (C&D)
HPPTCL, Shimla-5

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			3466	01-16-00
			3471/2	00-13-15
			3472/2	00-11-15
			3476/2	00-15-15
			3477	00-10-00
			3478	00-12-00
			3479/2	00-18-04
			3480	00-11-00
			3481	00-11-00
			3482/3	00-13-06
			3488/3	00-02-18
			3492/2/2	00-01-08
Total			**Kitte18**	**14-00-15**

Thus the particulars of the land being acquired are as under:

Notices u/s-9 of the act were then given to the title holders stating that the HPPTCL intends to take the possession of the land and the claim to compensation and any other interest in the land be made to the land acquisition collector on 26-12.2013 at HPPTCL Division office Sarabai, Bhunter, Distt kullu. In these notices the particulars of the land so needed were stated clearly.

At the time of enquiry u/s 9 the title holders stated that the land is a fertile agriculture / Horticulture land and well connected with the road. Hence the land owner demanded at least 40 lakh per Bigha rate for this land, excluding the cost of fruit and non-fruit trees, which shall be accessed by the concerned department separately. In addition the land has commercial potential as this land is adjoining to the nearest urban area Bhunter.

The compensation was considered in accordance the one year average of price for relevant period 09.09.2012 to 08.10.2013 because the circle rates was below than the one year average and the proposed award detailed in accordance with the one year average and sent to the District Collector Kullu vide No. HPPTCL/Rev(16)/2013 -5650-52 dated 28.12.2013 and the same copy of proposed award sent to the Principal Secretary (power) to the Govt. of H.P.Shimla-02.

The Principal Secretary (MPP & Power) to the Govt. of H.P. returned the same proposed award to the District Collector (Kullu) dated 8th January, 2014 and the copy of the same endorsed to undersigned with the direction to say that since the new Act namely "***The Right To Fair Compensation And Transparency in Land Acquisition, Rehabilitation and Resettlement- 2013"*** has come in to force w.e.f. 01.01.2014 and as per the provisions of section 24(1) (a) all the provisions relating to determination of compensation under this Act shall apply in all pending cases.

In this case we have already completed the process upto u/s 9 on dated 26.12.2013 as per the provisions of earlier Act 1894. Process of determination of compensation is only will be followed through the new Act. Hence the compensation is calculated under the provisions of section 24(1)(a) and section 26 is as under:

As per three years average price relevant period 10.08.2010 to 11.09.2013 the sale deed executed in this period 274 nos. among these deeds 50% of deeds of highest sale price has been considered for determination for compensation which comes to Rs. 10,84,036.00 per bigha whereas the circle rate for the Phatishilihar Kothi Knwar is Rs. 13,34,850.00 per bigha for the rural area.

General Manager (C&D)
HPPTCL, Shimla-5

9.A.2

As the proposed land is adjoining to the existing Sub Station of Everest ...y and abutting the road and adjoining to the urban area Bhunter. Hence the rate of the 3 years sale deed executed Rs. 10, 32,733.00 per bigha is very low than the circle rate is Rs. 13,34,850.00 per bigha is considered as flat rate for the compensation instead of 3 years average keeping in view the land falls commercial / potential factor discuss in detail above it would be fair and justified to give 50% hike to the circle rate discussed above which is Rs. 13,34,850.00 per bigha. After 50% hike on Rs. 13, 34,850.00 per bigha rate comes to Rs. 20, 02,275.00 per bigha which is awarded as market value of the land under acquisition Act as a flat rate. Award statement may prepared accordingly.

COST OF TREES AND STRUCTURES

Valuation and assessment of the fruit, non-fruit trees and structures are still required to be done by the concerned departments. As and when the evaluation is completed, supplementary Award will be prepared accordingly.

INTERST

The possession of land under acquisition is still with the land owners therefore the interest is not payable to land owners.

Thus the total amount of compensation works out as under:

1. Cost of land @ Rs. 20,02,275/-per Bigha. Rs. 2,81,06,932/-
2. Solatium @ 100% u/s 30(2) of the Act. Rs. 2,81,06,932/-
3. Additional charges u/s 30(3) (1 A) @ 12 % per annum w.e.f 08-10-2013 to 15.03.2014 (158 days) Rs 14,60,020/-

Grand Total **Rs. 5, 76, 73,884/-**

(Rupees Five Crore, seventy six lac seventy three thousand, eight Hundred and eighty four only).

The above amount of compensation of Rs. 5,7673,884 (Rs. Five crore, sev enty six lakh, Seventy three thousand eight hundred eighty four Rs. Only.) is accordingly awarded as compensation under section -23 of the new Act namely ***"The Right To Fair Compensation And Transparency in Land Acquisition, Rehabilitation and Resettlement- 2013"*** the land acquisition act with the prior approval of the H.P. Government. The compensation is to be disbursed to the person interested as per entries recorded in the award statement. The each person interested is to receive compensation as per Assamibar appended in the file.

Since land yielding revenue to the H.P. Government has been acquired for the H.P. Power Transmission Corporation Ltd. therefore, capitalized value at 25 times of the land revenue i.e. Rs. 96.50 is chargeable from H.P. Power Transmission Corporation Ltd. The land shall vest in the name of H.P. Power Transmission Corporation Ltd. free from all in encumbrances.

Notice of the award be given to all the persons interested in the land under section -26 of the land acquisition act.

Announced

Place: Shimla

Dated: 10.3.14

Land Acquisition Collector,

HPPTCL, Barowalia House,

Shimla-4.

Land Acquisition Collector
HPPTCL, Shimla-2

General Manager (C&D)
HPPTCL, Shimla-5

9.A.3

Endst No. HPPTCL/ LAO –Rev-16/2013 7283-87 Dated 18/03/14

Copy forwarded to:-

1. The Principal Secretary (Power) to the Government of H.P. Shimla -2
2. The District Collector Kullu, Distt. Kullu. H.P.
3. The Managing Director HPPTCL Barowalia House, Khalini, Shimla -2.
4. The Sr. Manager HPPTCL Division Sarabai Teh. Bhunter, Distt. Kullu.
5. The Tehsildar, Tehsil Bhunter, Distt. Kullu along with copy of revenue papers with the directions that the acquired land be mutated in the name of the H.P. Power Transmission Corporation Ltd. and this office be informed accordingly.

Land Acquisition Collector,

HPPTCL, Barowalia House,

Shimla-171004.

Land Acquisition Collector
HPPTCL, Shimla-2

General Manager (C&D)
HPPTCL, Shimla-5

9.A.4

BEFORE THE LAND ACQUISITION COLLECTOR,HPPTCL, BAROWALIA HOUSE KHALINI SHIMLA-2

ANNEXURE -9B

Supplementary Award in

Main Award No: 4

Dated: 10.3.2014

IN THE MATTER OF:

Acquisition of land for the construction of 132/220 kv substation at Chharor village Phati Shilihar, Tehsil Bhunter, Distt. Kullu (H.P) (area measuring 14-00-15 Bigha).

PRESENT: None

SUPPLEMENTARY AWARD:

Whereas land was required to be acquired by the H. P. Power Transmission Corporation Ltd. in village Phati Shilihar Tehsil Bhunter Distt kullu . The H. P. Govt. issued notification u/s 4 read with section-17(4) of the Land Acquisition Act 1894 vide notification No. Vidyut-Chh:(5)-31/2013 dated 26.09.2013, in which land kitta 18 measuring 14-00-15 Bigha situated in village Phati Shilihar, Tehsil Bhunter,Distt kullu (H.P) for the construction of 132/220 Kv sub-station at Chharor was announced vide award No. 4 dated 10.3.2014, but the assessment of structures, trees etc, existing on the land acquired was not assessed. Now the assessment/evaluation of fruit trees/plants and structure has been assessed by the concerned department i.e H.P.P.W.D/Forest/Horticulture Department Kullu.The Sr. Manager HPPTCL division Sarabai Tehsil Bhuntar forwarded the same evaluation/assessment vide his endost.Letter no. HPPTCL/SMS/DB-9/2014-862 dated 14-10-2014.

According to the assessment reports of structures, trees/fruit plants received from the Sr.Manager,HPPTCL Tehsil Bhuntar Distt. Kullu. following structures, trees were found existed on the land acquired and valuation there of is as under:-

Sr.No.	Name & address of the persons	Kh. No.	Assessed value of the structures, trees.
1	Jiwan Das, Devi Singh, Tirth Ram all son of and Smt. Rajni Devi D/O and Smt.Bhimi Devi Wd/O Dole Ram S/O Purkhu village Phati Shilihar The. Bhunter Distt kullu.	3463,3472/2,3481,3482/3 Jiwan Das etc. owners	Total Rs= 4 ,10,593.00
		Devi Singh struct. in possession	Structure= 3,28,692.00 Fruit Plants= 81,901.00
2	Smt. Rampu, Smt Pinkhi, D/O Lehnu Ram S/O Bed Ram, Leela money, Nandlal,Luder Chand all sons & Smt.Ruma Devi W/O Dharam Chand S/O Hirda village Phati Shilihar The Bhunter Distt kullu.	3476/2 Smt. Rampu etc. owners	Total Rs= 1,83,770.00
		Nand Lal struct. in possession.	Structure= 1,53,621.00. Fruit Plants= 30,149.00

General Manager (C&D)
HPPTCL, Shimla-5

9/B1

	Smt.Lihati Devi D/o Smt Parvati Devi & Om Nath, Purn Chand, Gulab Singh, Murari Lal all sons of & Smt, Khe yalu Devi W/O Durga Singh S/O Parvati Devi D/O Money Ram village Phati Shilihar Tehsil Bhuntar Distt Kullu.	3479/2	Rs. 59,784.00
4	Vidya Prakash,Bhole Ram, Dabe Ram all S/O Moti Ram S/O Mansa Ram. Village Phati Shilihar, Tehsil Bhuntar Distt kullu.	3471/2	Rs. 13,342.00
5	Dehar chand,Moti Lal alias Mohar Singh all S/O Lotam Ram S/O Gauri dutt ,Village Phati Shilihar Tehsil Bhuntar Distt kullu.	3456/2,3488/3	Rs. 78,578.00
6.	Puran Chand, Amar Chand all S/O Tikam Ram S/O Hira Lal Village Phati Shilihar Tehsil Bhuntar Distt kullu.	3457/2,3465	Rs. 62,473.00
7.	Smt. Punnu Wd/o Kehar Singh S/o Tej Ram Village Phati Shilihar Tehsil Bhuntar Distt kullu	3478	Rs. 45,965.00
8.	Joginder Singh S/o Shri Moter Singh S/o Rup Chand Village Phati Shilihar, Tehsil Bhuntar Distt kullu.	34092/2/2	Rs. 6,606.00
9.	Bhag Chand, Parkash Chand, Hukam Ram all S/o Jai Chand S/o Jogi alias Jog Raj Village Phati Shilihar Tehsil Bhuntar Distt kullu.	3458/2	Rs. 57,382.00
10	Smt. Annu Devi D/o Shri Jogi Alias Jog Raj S/o Chet Ram Village Phati Shilihar Tehsil Bhuntar Distt kullu.	3464	Rs. 97,781.00
s11.	Mohinder Singh S/o Vidya Prakash s/o Llehatu Village Phati Shilihar Tehsil Bhuntar Distt kullu.	3466	Rs. 71,351.00
12.	Kehar Chand, Yagyanand, Hemraj all S/o Anup Ram Village Phati Shilihar Tehsil Bhuntar Distt kullu.	3480	Rs. 17,741.00

General Manager (C&D)
HPPTCL, Shimla-5

9.B2

Nihal Chand s/o Man Chand S/o Ali , Nathu S/o Sesu S/o Ranu Village Phati Shilihar Tehsil Bhuntar, Distt- kullu.	3477	Rs. 34,227.00
Total		**Rs. 11,39,593.00**

COST OF TREES AND STRUCTURES:

Thus the total amount of compensation for trees & structure works out as under:-

1. Cost of fruit plants/trees = Rs 6,57,280.00
2. Cost of structure = Rs 4,82,313.00
3. Solatium @ 100% u/s 30(1) of the act = Rs 11,39,593.00
4. Additional charges u/s 30(3) @ 12% per annum w.e.f 8-10-2013 to 15-11-2014 (403 days)=Rs1,50,989.00

GRAND TOTAL = Rs 24,30,175.00

Thus the above amount of compensation i.e **Rs. 24,30,175(Rs. Twenty four lakh, thirty thousand, one hundred seventy five only)** as assessed by the Expert Deptts, is accordingly awarded u/s 23 of the Land Acquisition Act 2013. The compensation shall be apportioned between the persons interested as per their owenership/ share recorded in the revenue record and the compensation for structure shall be paid to the person who is in physical possession or constructed the structure,further award statement and assamiwar attached with the award.

The structures, trees etc. shall vest in the name of HPPTCL free from all encumbrances.

Notice of the award be given to all the persons interested in the land Under section 21 of the land acquisition act.

ANNOUNCED

Sd/-

Land Acquisition Collector,
HPPTCL, Barowalia House khalini,
Shimla-2

Place: Shimla
Dated: 29-10-2014

Endost. No. HPPTCL/LAO-Rev-16/2014 4803-05 Dated : 29-10-14

Copy is forwarded to:-

1. The Managing Director, HPPTCL Barowalia House khalini, Shimla-2
2. The Director (Project), HPPTCL Barowalia House Khalini Shimla -2
3. The Sr. Manager, HPPTCL Division Sarabai, Tehsil Bhuntar, Distt.Kullu

General Manager (C&D)
HPPTCL, Shimla-5

Land Acquisition Collector,
HPPTCL, Barowalia House khalini,
Shimla-2

9.B.3

ANNEXURE-9C

(75)

HIMACHAL PRADESH POWER TRANSMISSION CORPORATION LTD.

(A State Govt. Undertaking)
Regd. Office: Himfed Bhawan, New ISBT Road, Panjari, Shimla-171005
Ph. : 0177-2831283, 2831284 FAX :0177-2831284
(CIN):U40101HP2008SGC030856
(GSTIN):02AACCH1544M1ZP
Web. : www.hpptcl.com

OFFICE ORDER

The approval for deposition of enhanced amount **Rs. 6,63,66,855.55/-(Rs. Six Crore Sixty-Three lakhs Sixty-Six Thousand Eight Hundred Fifty-Five Only)** for compensation in the matter titled **Managing Director, HPPTCL Vs Punnu Devi & Others (RFA Nos.129-141/2020& 154/2020)** is hereby accorded as per the details below:-

Draw Payment Request Doc. No.

Sr. No.	Name of the case	RFA No.	Amount in Rs.	
1.	Managing Director HPPTCL vs Bhag Chand	129/2020	3983417.67	1700574 30/12/20
2.	Managing Director HPPTCL vs Mohinder Singh	130/2020	8246553.43	1700575 " "
3.	Managing Director HPPTCL vs Nihal Chand	131/2020	1217806.85	1700576 " "
4.	Managing Director HPPTCL vs Nathu	132/2020	1217806.85	1700577 " "
5.	Managing Director HPPTCL vs PunuDevi	133/2020	2840349.82	1700578 " "
6.	Managing Director HPPTCL vs Vidya Prakash	134/2020	3165016.02	1700579 " "
7.	Managing Director HPPTCL vs Kehar Singh	135/2020	2548106.30	1700580 " "
8.	Managing Director HPPTCL vs Jiwan Dass	136/2020	15320101.41	1700581 " "
9.	Managing Director HPPTCL vs Lihatu Devi	137/2020	2210694.79	1700582 " "
10.	Managing Director HPPTCL vs Rampu Devi	138/2020	4009051.91	1700583 " "
11.	Managing Director HPPTCL vs Om Nath	139/2020	2210694.79	1700584 " "
12.	Managing Director HPPTCL vs Puran Chand	140/2020	9648751.15	1700585 " "
13.	Managing Director HPPTCL vs Dehra Chand	141/2020	4510428.17	1700586 " "
14.	Managing Director HPPTCL vs Anu Devi	154/2020	5238076.39	1700587 " "
	Grand Total		**6,63,66,855.55**	

(Rs. Six Crore Sixty-Three lakhs Sixty-Six Thousand Eight Hundred Fifty-Five Only)

This bears the approval of competent authority.

30/12/2020

General Manager (Projects)
HPPTCL, Himfed Bhawan
Panjari, Shimla-05

No. HPPTCL/Projects/F-9 /2020 13836-39 **Dated:** 30-12-20

CC:

1. Sr. P.S to Managing Director, HPPTCL, Himfed Bhawan, Shimla-05.
2. P.S to Director (Projects), HPPTCL, Himfed Bhawan, Shimla-05.
3. The DGM (Finance), HPPTCL, Himfed Bhawan, Shimla-05.
4. The DGM (Projects), HPPTCL, Himfed Bhawan, Shimla-05.

30/12/2020

General Manager (Projects)
HPPTCL, Himfed Bhawan
Panjari, Shimla-05

JOA

908 30/12/2020

Ch to Sr. Manager (Projects) HPPTCL PIU Sarabai for payment of land C/o 33/22 KV GIS/STN Charel
Bill Checked & Verified/Passed for Rs 6,63,66,855.55/- (Rupees six crores sixty three lakhs sixty six thousand eight hundred fifty five and paise fifty five only)

Sr. Manager (Projects)
HPPTCL PIU Sarabai
Bhuntar Distt. Kullu (H.P.)-175125

General Manager (C&D)
HPPTCL, Shimla-5

9.(1)

Calculation Sheet prepared by Revenue Consultant/Kango for deposit of enhanced Amount of Compensation in following matters in the High Court Up to 31.12.2020.

Sr. No.	Name of the case	RFA No.	Amount in RS.
1.	MD HPPTCL Vs Bhag Chand	129/2020	3983417.67
2.	MD HPPTCL Vs Mohinder Singh	130/2020	8246553.43
3.	MD HPPTCL Vs Nihal Chand	131/2020	1217806.85
4.	MD HPPTCL Vs Nathu	132/2020	1217806.85
5.	MD HPPTCL Vs Punu Devi	133/2020	2840349.82
6.	MD HPPTCL Vs Vidya Prakash	134/2020	3165016.02
7.	MD HPPTCL Vs Kehar Singh	135/2020	2548106.30
8.	MD HPPTCL Vs Jiwan Dass	136/2020	15320101.41
9.	MD HPPTCL Vs Lihatu Devi	137/2020	2210694.79
10.	MD HPPTCL Vs Rampu Devi	138/2020	4009051.91
11.	MD HPPTCL Vs Om Nath	139/2020	2210694.79
12.	MD HPPTCL Vs Puran Chand	140/2020	9648751.15
13.	MD HPPTCL Vs Dehra Chand	141/2020	4510428.17
14.	MD HPPTCL Vs Anu Devi	154/2020	5238076.39

Grand Total=6,63,66,855.55

(Six crore sixty three lakhs sixty six thousand eight hundred & fifty five rupees only)

23/12/2020

Revenue Consultant

HPPTCL,Shimla

General Manager (C&D)
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

9.C.2

Sr. No.	Name of Petitoner	Award	Khasra No.	Area in biswa	Area in biswansi	Rate / Bigha	Rate /biswansi	compensation of land	Assets (Trees & houses etc.)	Total	CAS U/S 30@100%	U/S 69(2) @12%w.e.f. 8.10.2013 to 15.03.2014(158 days)	U/S 72 & 80 @ 9% w.e.f. 16.01.2014 to 15.01.2015(365 days)	Till deposit @ 15% w.e.f. 16.01.2015 to 31.12.2020(2176 days)	Tctal
1	Smt. Punnu Devi w/o Late Sh. Kehar	LAO	3,478.00	12.00	240.00	2,002,275.00	5,005.69	1,201,365.00	45,965.00	1,247,330.00	1,247,330.00	64,792.81			2,559,452.81
2		ADJ				1,501,706.25	3,754.27	901,023.75	34,473.75	935,497.50	935,497.50	48,594.61	84,194.78	836,565.44	2,840,349.82
						3,503,981.25	8,759.95	2,102,388.75	80,438.75	2,182,827.50	2,182,827.50	113,387.42			5,399,802.63

Sr. No.	Name of Petitoner	Award	Khasra No.	Area in biswa	Area in biswansi	Rate / Bigha	Rate /biswansi	compensation of land	Assets (Trees & houses etc.)	Total	CAS U/S 30@100%	U/S 69(2) @12%w.e.f. 8.10.2013 to 15.03.2014(158 days)	U/S 72 & 80 @ 9% w.e.f. 16.01.2014 to 15.01.2015(365 days)	Till deposit @ 15% w.e.f. 16.01.2015 to 31.12.2020(2176 days)	Total
1	Smt. Bhag Chand, Prakash Chand, Hukam Ram	LAO	3458/2	16.90	338.00	2,002,275.00	5,005.69	1,691,922.38	57,382.00	1,749,304.38	1,247,330.00	64,792.81			3,061,427.19
2		ADJ				1,501,706.25	3,754.27	1,268,941.78	43,036.50	1,311,978.28	1,311,978.28	68,150.98	118,078.05	1,173,232.08	3,983,417.67
						3,503,981.25	8,759.95	2,960,864.16	100,418.50	3,061,282.66	2,559,308.28	132,943.79			7,044,844.86

General Manager (C&D)
HPPTCL, Shimla-5

9.03

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Calculation Sheet															
Sr. No.	Name of Petitoner	Award	Khasra No.	Area in biswa	Area in biswansi	Rate / Bigha	Rate /biswansi	compensation of land	Assets (Trees & houses etc.)	Total	CAS U/S 30@100%	U/S 69(2) @12%w.e.f. 9.10.2013 to 15.03.2014(158 days)	U/S 72 & 80 @ 9% w.e.f. 16.01.2014 to 15.01.2015(365 days)	Till deposit @ 15% w.e.f. 16.01.2015 to 31.12.2020(2176 days)	Total
1	Sh.Mohinder Singh	LAO	3466	36.00	720.00	2,002,275.00	5,005.69	3,604,095.00	17,351.00	3,621,446.00	3,621,446.00	188,116.76			7,431,008.76
2	S/o Vidya Prakash	ADJ				1,501,706.25	3,754.27	2,703,071.25	13,013.25	2,716,084.50	2,716,084.50	141,087.57	244,447.61	2,428,849.26	8,246,553.43
						3,503,981.25	8,759.95	6,307,166.25	30,364.25	6,337,530.50	6,337,530.50	329,204.32			15,677,562.19

General Manager (C&D)
HPPTCL, Shimla-5

9.C.4

Calculation Sheet																
Sr. No.	Name of Petitoner	Award	Khasra No.	Area in biswa	Area in biswansi	Rate / Bigha	Rate /biswansi	compensation of land	Assets (Trees & houses etc.)	Shares 1/2	Total	CAS U/S 30@100%	U/S 69(2) @12%w.e.f. 8.10.2013 to 15.03.2014 (158 days)	U/S 72 & 80 @ 9% w.e.f. 16.01.2014 to 15.01.2015(365 days)	Till deposit @ 15% w.e.f. 16.01.2015 to 31.08.2020(2176 days)	Total
1	Sh. Nihal Chand S/o Sh. Man Chand	LAO	3477	5.0	100.00	2,002,275.00	5,005.69	500,568.75	34,227.00	17,113.50	534,795.75	534,795.75	27,780.08			1,097,371.58
2		ADJ				1,501,706.25	3,754.27	375,426.56	25,670.25		401,096.81	401,096.81	20,835.06	36,098.71	358,679.45	1,217,806.85
						3,503,981.25	8,759.95	875,995.31	59,897.25		935,892.56	935,892.56	48.615.13			2,315,178.42

General Manager (C&D)
HPPTCL, Shimla-5

9.C.5

(80)

Calculation Sheet																
Sr. No.	Name of Petitoner	Award	Khasra No.	Area in biswa	Area in biswansi	Rate / Bigha	Rate /biswansi	compensation of land	Assets (Trees & houses etc.)	Shares 1/2	Total	CAS U/S 30@100%	U/S 69(2) @12%w.e.f. 8.10.2013 to 15.03.2014(158 days)	U/S 72 & 80 @ 9% w.e.f. 16.01.2014 to 15.01.2015(365 days)	Till deposit @ 15% w.e.f. 16.01.2015 to 31 12..2020(2176 days)	Total
1	Sh. Nathu alias Ram Nath S/o Sh. Sisu	LAO	3477	5.00	100.00	2,002,275.00	5,005.69	500,568.75	34,227.00	17,113.50	534,795.75	534,795.75	27,780.08			1,097,371.58
2		ADJ				1,501,706.25	3,754.27	375,426.56	25,670.25		401,096.81	401,096.81	20,835.06	36,098.71	358,679.45	1,217,806.85
						3,503,981.25	8,759.95	875,995.31	59,897.25		935,892.56	935,892.56	48,615.13			2,315,178.42

General Manager (C&D)
HPPTCL, Shimla-5

P.C.6

Calculation Sheet

Sr. No.	Name of Petitoner	Award	Khasra No.	Area in biswa	Area in biswansi	Rate / Bigha	Rate /biswansi	compensation of land	Assets (Trees & houses etc.)	Total	CAS U/S 30@100%	U/S 69(2) @12%w.e.f. 8.10.2013 to 15.03.2014(158 days)	U/S 72 & 80 @ 9% w.e.f. 16.01.2014 to 15.01.2015(365 days)	Till deposit @ 15% w.e.f. 16.01.2015 to 31.12.2020(2176 days)	Total
1	Sh. Vidya Prakash	LAO	3471/2	13.75	275.00	2,002,275.00	5,005.69	1,376,564.06	13,342.00	1,389,906.06	1,389,906.06	72,198.96			2,852,011.08
2	S/o Sh. Moti Ram	ADJ				1,501,706.25	3,754.27	1,032,423.05	10,006.50	1,042,429.55	1,042,429.55	54,149.22	93,818.66	932,189.05	3,165,016.02
						3,503,981.25	8,759.95	2,408,987.11	23,348.50	2,432,335.61	2,432,335.61	126,348.17			6,017,027.10
	Sh. Bhole Ram S/o														
	Sh. Dhabe Ram S/o														

General Manager (C&D)
HPPTCL, Shimla-5

9.6.7

Calculation Sheet

Sr. No.	Name of Petitoner	Award	Khasra No.	Area in biswa	Area in biswansi	Rate / Bigha	Rate /biswansi	compensation of land	Assets (Trees & houses etc.)	Total	CAS U/S 30@100%	U/S 69(2) @12%w.e.f. 8.10.2013 to 15.03.2014(158 days)	U/S 72 & 80 @ 9% w.e.f. 16.01.2014 to 15.01.2015(365 days)	Till deposit @ 15% w.e.f. 16.01.2015 to 31.12.2020 (2176 days)	Total
1	Sh. Kehar Singh S/o Anup Ram	LAO				2,002,275.00	5,005.69	1,101,251.25	17,741.00	1,118,992.25	1,118,992.25	58,126.28			2,296,110.78
2		ADJ				1,501,706.25	3,754.27	825,938.44	13,305.75	839,244.19	839,244.19	43,594.71	75,531.98	750,491.24	2,548,106.30
						3,503,981.25	8,759.95	1,927,189.69	31,046.75	1,958,236.44	1,958,236.44	101,720.99			4,844,217.09
	Sh. Yagya Singh S/o Anup Ram		3480	11.0	220.00										
	Sh. Hemraj S/o Anup Ram														

General Manager (C&D)
HPPTCL, Shimla-5

P.C.S

Calculation Sheet

Sr. No.	Name of Petitoner	Award	Khasra No.	Area K.N. Wise	Total Area in biswa	Area in biswansi	Rate / Bigha	Rate /biswansi	compensation of land	Assets (Trees & houses etc.)	Total	CAS U/S 30@100%	U/S 69(2) @12%w.e.f. 8.10.2013 to 15.03.2014(158 days)	U/S 72 & 80 @ 9% w.e.f. 16.01.2014 to 15.01.2015(365 days)	Till deposit @ 15% w.e.f. 16.01.2015 to 31.12.2020(2176 days)	Total
1	Sh. Jiwan Dass S/o Sh. Dole Ram	LAO	3463	27.0	63.10	1,262.00	2,002,275.00	5,005.69	6,317,177.63	410,593.00	6,727,770.63	6,727,770.63	349,475.43			13,805,016.68
2		ADJ					1,501,706.25	3,754.27	4,737,883.22	307,944.75	5,045,827.97	5,045,827.97	262,106.57	454,124.52	4,512,214.38	15,320,101.41
							3,503,981.25	8,759.95	11,055,060.84	718,537.75	11,773,598.59	11,773,598.59	611,582.00			29,125,118.08
	Ramesh Chand S/o Dole Ram		3472/2	11.15												
	Sh. Tireth Ram S/o Dole Ram		3481	11.0												
	Smt. Bhimi Devi W/o Lt. Sh. Dole Ram		3482/3	13.6												
	Smt. Rajani W/o Sh. Alam Chand															

General Manager (C&D)
HPPTCL, Shimla-5

9.C.9

(84)

Calculation Sheet																
Sr. No.	Name of Petitoner	Award	Khasra No.	Area in biswa	Area in biswansi	Rate / Bigha	Rate /biswansi	compensation of land	Assets (Trees & houses etc.)	Shares 1/2	Total	CAS U/S 30@100%	U/S 69(2) @12%w.e.f. 8.10.2013 to 15.03.2014(158 days)	U/S 72 & 80 @ 9% w.e.f. 16.01.2014 to 15.01.2015(365 days)	Till deposit @ 15% w.e.f. 16.01.2015 to 31.12.2020(21 76 days)	Total
1	Smt. Lihatu Devi W/o Lt. Shri Jay Chand	LAO	3479/2	9.10	182.00	2,002,275.00	5,005.69	911,035.13	59,784.00	29,892.00	940,927.13	940,927.13	48,876.65			1,930,730.90
2		ADJ				1,501,706.25	3,754.27	683,276.34	44,838.00		728,114.34	728,114.34	37,822.05	65,530.29	651,113.76	2,210,694.79
						3,503,981.25	8,759.95	1,594,311.47	104,622.00		1,669,041.47	1,669,041.47	86,698.70			4,141,425.69

General Manager (C&D)
HPPTCL, Shimla-5

9.C.10

(85)

Calculation Sheet																
Sr. No.	Name of Petitoner	Award	Khasra No.	Area in biswa	Area in biswansi	Rate / Bigha	Rate /biswansi	compensation of land	Assets (Trees & houses etc.)	Shares 1/2	Total	CAS U/S 30@100%	U/S 69(2) @12%w.e.f. 8.10.2013 to 15.03.2014(158 days)	U/S 72 & 80 @ 9% w.e.f. 16.01.2014 to 15.01.2015(365 days)	Till deposit @ 15% w.e.f. 16.01.2015 to 31.12.2020(2176 days)	Total
	Sh. Om Nath S/o															
	Sh. Puran Chand S/o Sh. Durga															
1	Sh. Puran Chand S/o Sh. Durga	LAO	3479/2	9.10	182.00	2,002,275.00	5,005.69	911,035.13	59,784.00	29,892.00	940,927.13	940,927.13	48,876.65			1,930,730.90
2	Sh. Gulab Singh	ADJ				1,501,706.25	3,754.27	683,276.34	44,838.00		728,114.34	728,114.34	37,822.05	65,530.29	651,113.76	2,210,694.79
	Sh. Murari Lal S/o					3,503,981.25	8,759.95	1,594,311.47	104,622.00		1,669,041.47	1,669,041.47	86,698.70			4,141,425.69
	Sh. Khyalu Devi W/o Lt. Durga															

General Manager (C&D)
HPPTCL, Shimla-5

9.C.11

(88)

Calculation Sheet															
Sr. No	Name of Petitoner	Award	Khasra No.	Area in biswa	Area in biswansi	Rate / Bigha	Rate /biswansi	compensation of land	Assets (Trees & houses etc.)	Total	CAS U/S 30@100%	U/S 69(2) @12%w.e.f. 8.10.2013 to 15.03.2014(158 days)	U/S 72 & 80 @ 9% w.e.f. 16.01.2014 to 15.01.2015(365 days)	Till deposit @ 15% w.e.f. 16.01.2015 to 31.12.2020(2176 days)	Total
1	Sh. Puran Chand S/o Sh. Tikam Ram	LAO	3457/2	41.70	834.00	2,002,275.00	5,005.69	4,174,743.38	62,473.00	4,237,216.38	4,237,216.38	120,103.08			8,694,535.83
2		ADJ				1,501,706.25	3,754.27	3,131,057.53	46,854.75	3,177,912.28	3,177,912.28	165,077.31	286,012.11	2,841,837.17	9,648,751.15
						3,503,981.25	8,759.95	7,305,800.91	109,327.75	7,415,128.66	7,415,128.66	385,180.38			18,343,286.97
	Sh. Amar Chand S/o Sh. Tikam Ram		3465												

General Manager (C&D)
HPPTCL, Shimla-5

P.C.12

(87)

Calculation Sheet																
Sr. No.	Name of Petitoner	Award	Khasra No.	Area K.N. Wise	Area in biswa	Area in biswansi	Rate / Bigha	Rate /biswansi	compensation of land	Assets (Trees & houses etc.)	Total	CAS U/S 30@100%	U/S 69(2) @12%w.e.f. 8.10.2013 to 15.03.2014(158 days)	U/S 72 & 80 @ 9% w.e.f. 16.01.2014 to 15.01.2015(365 days)	Till deposit @ 15% w.e.f. 16.01.2015 to 31.12.2020 (2176 days)	Total
1	Sh. Dehar Chand S/o Lotam Ram	LAO	3456/2	16.2	19.00	380.00	2,002,275.00	5,005.69	1,902,161.25	78,578.00	1,980,739.25	1,980,739.25	102,889.91			4,064,368.41
2		ADJ					1,501,706.25	3,754.27	1,426,620.94	58,933.50	1,485,554.44	1,485,554.44	77,167.43	133,699.90	1,328,451.37	4,510,428.17
			3488/3	2.18			3,503,981.25	8,759.95	3,328,782.19	137,511.50	3,466,293.69	3,466,293.69	180,057.34			8,574,796.58

General Manager (C&D)
HPPTCL, Shimla-5

9.C.13

Calculation Sheet															
Sr. No.	Name of Petitoner	Award	Khasra No.	Area in biswa	Area in biswansi	Rate / Bigha	Rate /biswansi	compensation of land	Assets (Trees & houses etc.)	Total	CAS U/S 30@100%	U/S 69(2) @12%w.e.f. 8.10.2013 to 15.03.2014(158 days)	U/S 72 & 80 @ 9% w.e.f. 16.01.2014 to 15.01.2015(365 days)	Till deposit @ 15% w.e.f. 16.01.2015 to 31.12.2020(2176 days)	Total
1		LAO				2,002,275.00	5,005.69	1,576,791.56	183,770.00	1,760,561.56	1,760,561.56	91,452.73			3,612,575.86
2		ADJ				1,501,706.25	3,754.27	1,182,593.67	137,827.50	1,320,421.17	1,320,421.17	68,589.55	118,837.91	1,180,782.11	4,009,051.91
1	Smt. Rampu alias Rmpu Devi W/o Sh. Tek Chand		3476/2	15.75	315.00	3,503,981.25	8,759.95	2,759,385.23	321,597.50	3,080,982.73	3,080,982.73	160,042.28			7,621,627.77
2	Smt. Pinkhi W/o Jogender														
3	Sh. Leela Mani S/o Sh.														
4	Sh. Nand Lal S/o Dharm														
5	Ludar Chand S/o Dharm														
6	Smt. Ruma Devi W/o Lt. Dharam Chand														

General Manager (C&D)
HPPTCL, Shimla-5

9.C.14

89

Calculation Sheet															
Sr. No	Name of Petitoner	Award	Khasra No.	Area in biswa	Area in biswansi	Rate / Bigha	Rate /biswansi	compensation of land	Assets (Trees & houses etc.)	Total	CAS U/S 30@100%	U/S 69(2) @12%w.e.f. 8.10.2013 to 15.03.2014(158 days)	U/S 72 & 80 @ 9% w.e.f. 16.01.2014 to 15.01.2015(365 days)	Till deposit @ 15% w.e.f. 16.01.2015 to 31.12.2020(2176 days)	Total
1	Sht. Anu Devi W/o	LAO				2,002,275.00	5,005.69	2,202,502.50	97,781.00	2,300,283.50	2,300,283.50	119,488.70			4,720,055.70
2	Lt. Shri Shiv Ram	ADJ	3464	22.00	440.00	1,501,706.25	3,754.27	1,651,876.88	73,335.75	1,725,212.63	1,725,212.63	89,616.52	155,269.14	1,542,765.48	5,238,076.39
						3,503,981.25	8,759.95	3,854,379.38	171,116.75	4,025,496.13	4,025,496.13	209,105.22			9,958,132.09

General Manager (C&D)
HPPTCL, Shimla-5

9.C.15

HP Power Transmission Corporation Ltd.
Himfed Bhawan New ISBT Road Panjri, Shimla.

CERTIFICATE

Name of project : 132/220KV Sub Stn. Charor

We have confirmed that the following expenditure (Capital Cost) has been incurred on the above mentioned project as on Date 31.03.2020

Sr No	Particulars	Rs in Lakhs
1	Land Acquisition	663.67
	Total	663.67

This is to certify that the above summery has been prepared on the basis of information drawn from the Draft Financial Statement and SAP of HP Power Transmission Corporation Ltd. as on 31.03.2020.

Note: This amount of land is related to the Charor Sub Station.The said amount has been booked in SAP under G/L (1090025) Advance deposit against Court Case. The amount is currently lying in the vendor account of the Registrar General and shall be considered for petition purposes.

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance),
HPPTCL, Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFYMS5964
Date :- 16/10/2025

General Manager (C&D)
HPPTC... ...-5

9.C.16

H P POWER TRANSMISSION CORPORATION LIMITED
HIMFED BHAWAN NEW ISBT ROAD, PANJRI, SHIMLA-171005.

CERTIFICATE
132/220KV Sub/Stn Charor

Date: As on 31.03.2020

(Rs.In Lakhs)

Description	2019-20	Total Capital Cost & Debt/Equity
1	2	3 (1+2)
Loan	0.00	0.00
Equity	663.67	663.67
Total Capital Cost	**663.67**	**663.67**

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance),
HPPTCL, Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFYMS5964
Date :- 16/10/2025

General Manager (C&D)
HPPTCL, Shimla-5

9.C.17

ANNEXURE -9D

HP Power Transmission Corporation Ltd.
Himfed Bhawan New ISBT Road Panjri, Shimla.

CERTIFICATE

Name of project : 132/220KV Sub Stn. Charor

We have confirmed that the following expenditure (Capital Cost) has been incurred on the above mentioned project as on Date 31.03.2020

Sr No	Particulars	Rs in Lakhs
1	Land Acquisition	663.67
	Total	663.67

This is to certify that the above summery has been prepared on the basis of information drawn from the Draft Financial Statement and SAP of HP Power Transmission Corporation Ltd. as on 31.03.2020.

Note: This amount of land is related to the Charor Sub Station.The said amount has been booked in SAP under G/L (1090025) Advance deposit against Court Case. The amount is currently lying in the vendor account of the Registrar General and shall be considered for petition purposes.

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance),
HPPTCL, Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFYMS5964
Date :- 16/10/2025

General Manager (C&D)
HPPTCL, Shimla-5

9.D.1

H P POWER TRANSMISSION CORPORATION LIMITED
HIMFED BHAWAN NEW ISBT ROAD, PANJRI, SHIMLA-171005.

CERTIFICATE
132/220KV Sub/Stn Charor

Date: As on 31.03.2020

(Rs.In Lakhs)

Description	2019-20	Total Capital Cost & Debt/Equity
1	2	3 (1+2)
Loan	0.00	0.00
Equity	663.67	663.67
Total Capital Cost	**663.67**	**663.67**

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance),
HPPTCL, Panjari,
Shimla-5

SHARMA RAJEEV & ASSOCIATES
CHARTERED ACCOUNTANTS

UDIN:- 25088586BMFYMS5964
Date :- 16/10/2025

General Manager (C&D)
HPPTCL, Shimla-5

9.D.2

ANNEXURE – 10

File No. MPP-C(11)-1/2022
Government of Himachal Pradesh
Department of MPP& Power

From

The Chief Secretary (Power)
Government of Himachal Pradesh

To

The Managing Director
HPPTCL, Himfed Bhawan
Tutikandi Shimla-5

Dated Shimla-2, the 9.7. 2024

Subject: - Proposal for restructuring of ADB loan under Himachal Pradesh Clean Energy Transmission Investment Programme.

Sir,

I am directed to refer to your letter No. HPPTCL-PLG-017/1/2022-Planning Cell-HPPTCL-1/397836/2024 dated 04.05.2024 and to enclose herewith a copies of certificate No. IN-HP14466493160111 9W, No. IN-HP14465254973766W and No. IN-HP14462483427196W dated 04th May, 2024 of Loan Agreement "On-Lending Agreement" duly signed by concerned authorities (in original) for your information and further necessary action.

Yours faithfully,

(Arindam Chaudhary)
Special Secretary (Power) to the
Government of Himachal Pradesh

Endst. No. As above Dated Shimla-02, 2024

Copy is forwarded to the Pr. Secretary (Finance) GoHP along with copy Loan Agreement "On Lending Agreement" (duly signed by concerned authorities) for information and necessary action.

Special Secretary (Power) to the
Government of Himachal Pradesh

G.M (C&D) send w/py to Dgm (Fin)
15/7/2024

General Manager (C&D)
HPPTCL, Shimla-5

सत्यमेव जयते

INDIA NON JUDICIAL

Government of Himachal Pradesh

₹50

e-Stamp

Certificate No.	:	IN-HP14466493160119W
Certificate Issued Date	:	04-May-2024 11:26 AM
Account Reference	:	SELFPRINT (PU)/ hp-self/ SHIMLA/ HP-SM
Unique Doc. Reference	:	SUBIN-HPHP-SELF24934522092633W
Purchased by	:	HARMANJEET SINGH
Description of Document	:	Article 5 Agreement or Memorandum of an Agreement
Property Description	:	ONLENDING AGREEMENT BETWEEN HIMACHAL PRADESH GOVERNMENT AND HPPTCL ADB TRANCHE-III
Consideration Price (Rs.)	:	50 (Fifty only)
First Party	:	GOVERNMENT OF HIMACHAL PRADESH
Second Party	:	HPPTCL
Stamp Duty Paid By	:	HPPTCL
Stamp Duty Amount(Rs.)	:	50 (Fifty only)

₹50

SELF PRINTED CERTIFICATE TO BE VERIFIED BY THE RECIPIENT AT WWW.SHCILESTAMP.COM

IN-HP14466493160119W

Please write or type below this line

Loan Agreement

"On-Lending Agreement"

Between

Himachal Pradesh Government

And

H.P. Power Transmission Corporation Limited

Managing Director
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

10.2

This Agreement is made at Shimla on this ....4th.....day of July., 2024 between Government of Himachal Pradesh (hereinafter called first Party) and H.P. Power Transmission Corporation Limited, a State Owned Company formed under the Companies Act, 1956 (hereinafter called the second Party) and having its registered office former at Barowalia House, Khalini, Shimla-2 and presently at Himfed Bhawan, Tutikandi, Panjari, Shimla-5 which expression shall unless be repugnant to the context and meaning include its successors, administrators and assigns of the other part.

WHEREAS the Government of India is taking a loan of 350 Million US Dollar from Asian Development Bank in various tranches under Himachal Pradesh Clean Energy Transmission Investment Programme for execution of various Transmission Projects covered in Power System Master Plan for Himachal Pradesh. Out of the above loan of 350 Million U.S. Dollar, Tranche-III Loan of 105 Million U S Dollar has been proposed for 19 number of Projects initially, subsequently **loan of 79.93 million U.S Dollar i.e. Rs 586.1666 Cr. (Rupees five hundred eighty-six crore, sixteen lac and sixty-six thousand) only has been funded/received for following 19 Number Projects:**

Sr. No	Name of the Project
Tranche-III	
1	220/66kV Sub-Station at **Gumma (Shimla)**
2	220kV Switching Substation at **Hatkoti (Shimla)**
3	220/132kV Substation at Sunda (Rohru)
4	66/22kV Substation at **Bagipul** (Nirmand) (**Kullu**)
5	2 No 220 kV Bays at substation **Baddi** for LILO of 2nd Ckt. of Kunihar-Pinjore Transmission Line (**Solan**)
6	220kV **Bajoli-Holi- Lahal** Transmission Line
7	220kV **Mazra –Karian** Transmission Line
8	132kV LILO of **Kurthala-Bathri** at Mazra SS
9	220kV **Sunda-Hatkoti** Transmission Line
10	132 kV D/C line from Barsaini Substation to Charor Substation **(Kullu)**
11	33/132 kV Sub Station at Barsaini **(Kullu)**
12	400 kV D/C line (Twin MOOSE) from 400/220 kV, 2x315 MVA Lahal GISS to 400/220 kV Chamera Pooling station of PGCIL **(Chamba)**
13	66 kV D/C transmission line from Nirmand to Kotla **(Kullu-Shimla)**
14	220/132 kV, 2x100 MVA GIS Substation at Mazra (**Chamba)**
15	Construction of 220/132 kV Kangoo substation and stringing of 2nd circuit of 220 kV S/C line on D/C towers from Dehar HEP of BBMB to Kangoo substation.
16	132/220 kV Sub Station at Charor **(Kullu)**
17	66 kV D/C Line from 66 kV Switching station at Urni to Wangtoo Sub Station **(Kinnaur)**
18	Creation of a Control and Operations Center for the transmission assets of HPPTCL

Managing Director
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

10.3

Sr. No	Name of the Project
19	Residential Quarters at Wangtoo, Phojal/Charor and Chambi

AND WHEREAS the Government of India has further transferred this loan granted by Asian Development Bank to the Government of Himachal Pradesh, which Interalia, is transferring the same to H.P. Power Transmission Corporation Limited (Second Party) which is designated implementing agency for these Transmission Projects as per terms and conditions of this on lending agreement.

NOW THIS AGREEMENT WITNESSTH AS FOLLOWS:

1 The second Party will prepare the required documents and file the claims/ requests for release of funds with the concerned agencies in accordance with Government of India guide lines and Asian Development Bank requirements. The second party under this agreement will be responsible for the maintenance of accounts and to file the return/ information to Government of India and to Asian Development Bank as required from time to time.

2 The second party hereby agrees that: -

i. Rate of Interest shall be 10% per annum for 10 % of all disbursements.

ii. Interest on 10% of total disbursed amount shall start immediately from the date of disbursement which will be payable by HPPTCL to the GoHP.

iii. 10 % of all disbursement shall be infused as equity by GoHP.

iv. 80 % of all disbursement shall be interest free loan.

v. Principal repayment for 90 % of total disbursed amount will be made in 15 equal annual instalments with a moratorium period of 5 years.

vi. The interest will be repaid as due in January of each financial year. The amount of the interest will be calculated on the above rate and terms up to last day of the preceding month in which the payment is due i.e. 31st December.

vii. The second party agrees to supply such information and maintain accounts in such manner as may be desired by the first party and will be subject to audit.

viii. The transactions under this agreement shall be in Indian Rupees only. The first party agrees and undertakes to further make repayment of loan to Government of India/ Asian Development Bank and second party will have no responsibility towards this.

This agreement is being executed in duplicate and original will remain with first party and duplicate copy with second party.

Managing Director
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

10-4

IN WITNESS WHEREOF, the parties aforementioned have executed this agreement on the date and year first above mentioned.

Witness:

Ram Dev
OSD (WEM)

Signed By

(Devesh Kumar)
Pr. Secy
(Fin. Planning, L & S)
For and on behalf of
to the Govt. of H.P.
Govt. of Himachal Pradesh
(First Party)

Witness:

Manoj Kumar
GM (C&D)

Signed By

(Sh. Rajiv Sood)
Managing Director
HPPTCL, Shimla
Authorized Signatory
(Second Party)

General Manager (C&D)
HPPTCL, Shimla-5

10.5

सत्यमेव जयते

INDIA NON JUDICIAL

Government of Himachal Pradesh

₹50

e-Stamp

Certificate No.	:	IN-HP14465254973766W
Certificate Issued Date	:	04-May-2024 11:20 AM
Account Reference	:	SELFPRINT (PU)/ hp-self/ SHIMLA/ HP-SM
Unique Doc. Reference	:	SUBIN-HPHP-SELF24932434929648W
Purchased by	:	HARMANJEET SINGH
Description of Document	:	Article 5 Agreement or Memorandum of an Agreement
Property Description	:	AMENDED ON-LENDING AGREEMENT OF ADB TRANCHE-II
Consideration Price (Rs.)	:	50 (Fifty only)
First Party	:	GOVERNMENT OF HIMACHAL PRADESH
Second Party	:	HPPTCL
Stamp Duty Paid By	:	HPPTCL
Stamp Duty Amount(Rs.)	:	50 (Fifty only)

SELF PRINTED CERTIFICATE TO BE VERIFIED BY THE RECIPIENT AT WWW.SHCILESTAMP.COM

IN-HP14465254973766W

Please write or type below this line

Loan Agreement (Amendment)

"Amended On-Lending Agreement"

Between

Himachal Pradesh Government

and

H.P. Power Transmission Corporation Limited

Managing Director
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

10.6

This amendment to onlending Agreement dated 3rd December 2014 signed between Government of Himachal Pradesh (hereinafter called first Party) and H.P. Power Transmission Corporation Limited, a State Owned Company formed under the Companies Act, 1956 (hereinafter called the second Party) and having its registered office former at Barowalia House, Khalini, Shimla-2 and presently at Himfed Bhawan, Tutikandi, Panjari, Shimla-5 which expression shall unless be repugnant to the context and meaning include its successors, administrators and assigns of the other part is being signed on 4th July 2024 between first party and second party.

WHEREAS the Government of India has transferred a loan under Himachal Pradesh Clean Energy Transmission Development Programme from Asian Development Bank in various tranches for execution of various Transmission Projects covered in Power System Master Plan for Himachal Pradesh. **Under Tranche-II, Loan of 78.350 million U.S Dollar i.e. Rs 535.3831 Cr. (Rupees five hundred thirty-five crore, thirty-eight lac and thirty-one thousand) only** has been funded/ received for 9 number of following Projects, Project Number 7 to 9 have been partially funded in Tranche-III:

1	400/220/33kV Sub Station at Lahal (Chamba)
2	66kV Switching Sub Station Urni (Kinnaur)
3	220kV D/C Transmission Line from Charor to Banala
4	220kV S/C on D/C Transmission Line from Lahal to Budhil
5	132kV LILO of Dehra-Kangra Line at Chambi
6	220/132kV Substation at Sunda (Rohru)
7	220kV **Sunda-Hatkoti** Transmission Line
8	132/220 kV Sub Station at Charor **(Kullu)**
9	66 kV D/C Line from 66 kV Switching station at Urni to Wangtoo Sub Station **(Kinnuar)**

AND WHEREAS the Government of India has transferred this loan granted by Asian Development Bank to the Government of Himachal Pradesh, which Interalia, has transferred the same to H.P. Power Transmission Corporation Limited (Second Party) which is designated implementing agency for these Transmission Projects as per terms and conditions of on lending agreement signed on 03.12.2014. Now, Consequent upon the restructuring of loan approved by Government of Himachal Pradesh on request of H.P. Power Transmission Corporation Limited, the onlending agreement signed on 3rd December 2014 is amended as follows w.e.f. C.Y. 2022-

NOW THIS AMENDED AGREEMENT WITNESSTH AS FOLLOWS:

1. The second party hereby agrees to amend the Sr. No. 3 of existing agreement as under: -
   (i) Principal repayment due till Calendar Year (C.Y.) 2021 as per original onlending agreement is deferred till C.Y. 2023 and shall be

Managing Director
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

repaid in 11 equal instalments w.e.f. C.Y. 2024 (paid w.e.f. Jan., 2025 to Jan., 2035).

(ii) Interest on 90% portion of loan accrued up to Calendar Year 2021 as per original onlending agreement is deferred till calendar Year 2023. The interest shall be repaid w.e.f. C.Y. 2024 in 11 years i.e. (paid w.e.f. Jan., 2025 to 2035).

(iii) Interest on 10% portion of the total disbursed amount will continued to be paid by second party to the First Party Annually.

(vi) Restructuring of Loan w.e.f. Calendar year 2022 shall be as under: -

(a) 80% of disbursed loan will be converted in to interest free loan.

(b) 10% of disbursed loan will be kept as interest-bearing loan @10% rate of interest.

(c) 10% of disbursed loan will be converted into equity by Govt. of H.P.

(iv) Principal repayment of 90% portion of disbursed loan due w.e.f C.Y. 2022 is deferred till calendar Year 2023. The Principal shall be repaid w.e.f C.Y. 2024 in eleven equal instalments i.e. (paid w.e.f. Jan., 2025 to 2035).

This agreement is being executed in duplicate and original will remain with first party and duplicate copy with second party.

IN WITNESS WHEREOF, the parties aforementioned have executed this agreement on the date and year first above mentioned.

Witness:

Ram Dev
OSD (W&M)

Signed By

(Devesh Kumar)
Pr. Secy.
(Fin. Planning E & SI
to the Govt. of H.P.
For and behalf of
Govt. of Himachal Pradesh
(First Party)

Witness:

Manoj Kumar
GM (C&D)

Signed By

(Sh. Rajiv Sood)
Managing Director
HPPTCL, Shimla
Authorized Signatory
(Second Party)

General Manager (C&D)
HPPTCL, Shimla-5

सत्यमेव जयते

INDIA NON JUDICIAL

Government of Himachal Pradesh

₹50

e-Stamp

Certificate No.	:	IN-HP14462483427196W
Certificate Issued Date	:	04-May-2024 11:04 AM
Account Reference	:	SELFPRINT (PU)/ hp-self/ SHIMLA/ HP-SM
Unique Doc. Reference	:	SUBIN-HPHP-SELF24927068240422W
Purchased by	:	HARMANJEET SINGH
Description of Document	:	Article 5 Agreement or Memorandum of an Agreement
Property Description	:	AMENDED ON-LENDING AGREEMENT OF ADB TRANCHE-I
Consideration Price (Rs.)	:	50 (Fifty only)
First Party	:	GOVERNMENT OF HIMACHAL PRADESH
Second Party	:	HPPTCL
Stamp Duty Paid By	:	HPPTCL
Stamp Duty Amount(Rs.)	:	50 (Fifty only)

₹50

SELF PRINTED CERTIFICATE TO BE VERIFIED BY THE RECIPIENT AT WWW.SHCILESTAMP.COM

IN-HP14462483427196W

Please write or type below this line

Loan Agreement (Amendment)

"Amended On-Lending Agreement"

Between

Himachal Pradesh Government

and

H.P. Power Transmission Corporation Limited

Managing Director
HPPTCL, Shimla-5

1. The authenticity of this certificate should be verified at www.shcilestamp.com or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

General Manager (C&D)
HPPTCL, Shimla-5

10.9

This amendment to onlending Agreement dated 20th April 2012 signed between Government of Himachal Pradesh (hereinafter called first Party) and H.P. Power Transmission Corporation Limited, a State Owned Company formed under the Companies Act, 1956 (hereinafter called the second Party) and having its registered office former at Barowalia House, Khalini, Shimla-2 and presently at Himfed Bhawan, Tutikandi, Panjari, Shimla-5 which expression shall unless be repugnant to the context and meaning include its successors, administrators and assigns of the other part is being signed on 4th July 2024 between first party and second party.

WHEREAS the Government of India has transferred a loan under Himachal Pradesh Clean Energy Transmission Development Programme from Asian Development Bank in various tranches for execution of various Transmission Projects covered in Power System Master Plan for Himachal Pradesh. **Under Tranche-I, Loan of 112 million U.S Dollar i.e. Rs 728.9149 Cr. (Rupees seven hundred twenty-eight crore, ninety-one lac and forty-nine thousand) only** has been funded/ received for six number of following Projects:

(i) 22/66/220 kV, (22/66 kV, 2*10 MVA + 66/220 kV, 31.5 MVA) GIS Sub Station at Bhoktoo in Distt. Kinnaur with LILO of one circuit of 220 kV Kashang- Bhaba D/C line.

(ii) 220 kV (Twin Moose) D/c line from Hatkoti to 220/400 kV Sub Station at Pragati Nagar in Distt. Shimla.

(iii) 220/400 kV, 315 MVA GIS Sub Station at Pragati Nagar in Distt. Shimla with LILO of both circuits of 400 kV Jhakri-Abdullapur D/C line of PGCIL.

(iv) 66/220/400 kV GIS Sub Station (66/220 kV, 2*80/100 MVA+ 220/400 kV, 2*315 MVA) at Wangtoo in Distt. Kinnaur with LILO of both circuits of 220 kV Kashang-Bhaba line and 400kVWangtoo- Abdullapur D/C Lines.

(v) 132/33 kV, 2X31.5 MVA GIS Substation Chambi.

(vi) 33/132 kV, 31.5 MVA GIS Substation Pandoh.

AND WHEREAS the Government of India has transferred this loan granted by Asian Development Bank to the Government of Himachal Pradesh, which Interalia, has transferred the same to H.P. Power Transmission Corporation Limited (Second Party) which is designated implementing agency for these Transmission Projects as per terms and conditions of on lending agreement signed on 20.04.2012. Now Consequent upon the restructuring of loan approved by Government of Himachal Pradesh on request of H.P. Power Transmission Corporation Limited, the onlending agreement signed on 20th April 2012 is amended as follows w.e.f. C.Y. 2022-

NOW THIS AMENDED AGREEMENT WITNESSTH AS FOLLOWS:

1. The second party hereby agrees to amend the Sr. No.3 of existing agreement as under. -

Managing Director
HPPTCL, Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

(i) Principal repayment due till Calendar Year (C.Y.) 2021 as per original onlending agreement is deferred till C.Y. 2023 and shall be repaid in 9 equal instalments w.e.f. C.Y. 2024 (paid w.e.f. Jan., 2025 to Jan., 2033).

(ii) Interest on 90% portion of loan accrued up to Calendar Year 2021 as per original onlending agreement is deferred till calendar Year 2023. The interest shall be repaid w.e.f. C.Y. 2024 in nine years i.e. (paid w.e.f. Jan., 2025 to 2033).

(iii) Interest on 10% portion of the total disbursed amount will continued to be paid by second party to the First Party Annually.

(vi) Restructuring of Loan w.e.f. Calendar year 2022 shall be as under: -

(a) 80% of disbursed loan will be converted in to interest free loan.

(b) 10% of disbursed loan will be kept as interest-bearing loan @10% rate of interest.

(c) 10% of disbursed loan will be converted into equity by Govt. of H.P.

(iv) Principal repayment of 90% portion of disbursed loan due w.e.f C.Y. 2022 is deferred till calendar Year 2023. The Principal shall be repaid w.e.f C.Y. 2024 in nine equal instalments i.e. (paid w.e.f. Jan., 2025 to 2033).

This agreement is being executed in duplicate and original will remain with first party and duplicate copy with second party.

IN WITNESS WHEREOF, the parties aforementioned have executed this agreement on the date and year first above mentioned.

Witness:

(Ram Dev)
OSD (W&M)

Signed By

(Devesh Kumar)
Pr. Secretary (Fin., Planning, E & S)
to the Govt. of H.P.
On behalf of
Govt. of Himachal Pradesh
(First Party)

Witness:

Manoj Kumar
GM (C&D)

Signed By

(Sh. Rajiv Sood)
Managing Director
HPPTCL, Shimla
Authorized Signatory
(Second Party)

General Manager (C&D)
HPPTCL, Shimla-5

ANNEXURE -11A

hpscb
The Himachal Pradesh State Co-operative Bank Ltd.
Head Office - The Mall Shimla (H.P.) -171001
(Bank of the State - For the State)

10392

Ref. No. : StCB/HO/L&A/HPPTCL/1627/ /2023-24 Dated: 2 January, 2024

Assistant General Manager
The H.P.State Co-operative Bank Limited,
Branch office Shimla Main

Sanction of Term Loan proposal of Himachal Pradesh Power Transmission Corporation Limited (HPPTCL) for Spill Over of HP Clean Energy Transmission Investment Programme of ADB Trance III total amounting to Rs. 176.57 under consortium lending arrangement with share of HP State Co-operative Bank Ltd RS76.57 Crore, The Kangra Central Cooperative Bank Limited Rs60.00 Crore and The Jogindera Central Co-operative Bank Limited Rs40.00 Crore.

It is to inform you that upon considering the captioned loan proposal of Himachal Pradesh Power Transmission Corporation Limited; as applied vide application dated 11.10.2023 & forwarded vide letter no. BO Shimla/TL-HPPTCL/33399/2023-24 dated 12.10.2023 and subsequent recommendation of AGM, BO Shimla, Consortium Member Banks and Loan Appraisal Committee of the Bank, the BOD of the Bank Vide Resolution No 9 dated 20.10.2023 has resolved to accord sanction and subsequently HPRO NABARD vide Letter Ref No HPRO/DoS-10A/1711/2023-24 dated 29.12.2023 has given permission for financing Term Loan proposal of Himachal Pradesh Power Transmission Corporation Limited (HPPTCL) for Spill Over of HP Clean Energy Transmission Investment Programme of ADB Trance III total amounting to Rs. 176.57 under consortium lending arrangement with share of HP State Co-operative Bank Ltd Rs76.57 Crore, The Kangra Central Cooperative Bank Limited Rs60.00 Crore and The Jogindera Central Co-operative Bank Limited Rs40.00 Crore. The loan so sanctioned is subject to fulfilment of following terms and conditions:-

1. The HPPTCL shall authorise the signatories to sign the loan documents. The Branch Manager shall invariably obtain such document from HPPTCL.
2. The Share in Consortium Lending arrangements shall be as under:-

Bank Name	Bank Share
HPSTCB	76.57 Crore
KCCB	60.00 Crore
JCCB	40.00
Total	**176.57 Crore**

3. The HPPTCL Ltd; shall give an undertaking to the effect that it will utilize the sanctioned loa amount strictly for the purpose envisaged in its letter no HPPTCL/F&A/Domestic Loan (Vol II)/2023-7055 dated 10.10.2023 and in accordance with the terms and conditions of t

The H.P. State Co-op. Bank Ltd. Shimla

General Manager (C&D)
HPPTCL, Shimla-5

(3)

(A-1)

sanction letter, failing which the Bank shall be constrained to withdraw the sanction and recall the whole loan amount with interest. The entire loan amounting to Rs176.57 Crore shall be utilized only for Spill Over of HP Clean Energy Transmission Investment Programme of ADB Trance III including (i) refinancing of the amount already spent on the spillover costs from self sources and (ii) amount to be spent on the remaining works under progress.

4. The interest @ 7.98% p.a. on monthly compounded basis shall be charged for the ibid loan facility. Further, the rate of interest is subject to annual reset in the beginning of the April every year on the basis of least of the following:-
   (i) Average monthly MCLR of top five Banks i.e. SBI, HDFC, PNB, Canara Bank and UCO Bank prevailing in the beginning of the April every year miuns 0.05 BPS
   (ii) Monthly MCLR of SBI prevailing in the beginning of the April every year minus 0.05 BPS
5. In case of default, penal charges @ 1% over and above the normal rate of interest on default amount and for the period of default shall be charged as per HOGC 171/2023-24. There shall be no capitalization of penal charges i.e. no further interest shall be computed on such charges.
6. No processing Fees shall be charged for the ibid loan proposal. Further, other charges like Non Fund Charges viz a viz commission, fees, legal audit charges, valuation charges etc shall also not be charged from HPPTCL.
7. The loan shall be disbursed on written request of HPPTCL Ltd; after completing the codal formalities in this regard. **HPPTCL shall raise demand for loan to the lead bank i.e. HPSTCB and the lead bank shall arrange to get the demanded loan amount disbursed from the loan accounts of consortium members in the ratio of the decided share of loan amount and credit the current account of HPPTCL to be opened with the BO Shimla. Thereafter, the lead bank shall remit the composite amount in the mode requested by borrower i.e transfer to account of HPPTCL, Vendor, contractor etc via Transfer / NEFT / RTGS/ issuing of DD etc. HPPTCL shall get the sanctioned loan disbursed with the moratorium period and no disbursement shall be allowed after the moratorium period.**
8. The loan along with interest shall be repaid within maximum period of 15 years including moratorium period of three years. During moratorium period HPPTCL shall complete & commission the projects and file petitions for tariffs before HPERC & get them approved. The moratorium period, as such, shall be reckoned from the date of 1st disbursement from the loan account.
9. During the moratorium period, HPPTCL shall service the interest on monthly basis. After moratorium the Yearly Equated Loan Installment shall be re-fixed on the basis of principal loan outstanding in the books of each bank individually and lead bank shall communicate the total yearly Equated loan installment to HPPTCL and member banks.
10. The HPPTCL Ltd; shall execute and provide the Escrow Account Agreement for repayment of the loan. HPPTCL shall undertake that Escrow Account is free from encumbrances/lien from any Bank/financial institution. The HPPTCL shall also give undertaking that Escrow arrangement will not be discontinued during the currency of loan. **Further, such Escrow account for repayment of loan shall be opened with the HPSTCB and the KCCB and JCCB shall arrange to provide the loan account number and the interest statement on monthly basis on 1st working day of every month so as to facilitate transferring of amount for servicing of interest every month during moratorium and after moratorium period.** The Branch Incharge shall obtain standing debit authority from HPPTCL Ltd; In favour of Bank duly signed by the authorized signatories of current account under escrow authorizing the Bank to debit the interest during the moratorium

The Shimla Co-op. Bank Ltd. Shimla

General Manager (C&D)
HPPTCL, Shimla-5

11A.2

period and Yearly Instalment thereafter.

11. HPPTCL shall maintain sufficient balance in Escrow Account so as to service the monthly interest during the moratorium period and Yearly Instalment after moratorium period. HPPTCL shall maintain sufficient balance i.e amount equal to one yearly loan instalment in the escrow account at least one month prior to the due date of yearly loan instalment. It is emphasised that the sale receipts of the projects to be executed under Tranche-III, whenever commissioned, shall be routed through the Escrow Account to be opened in BO Shimla for loan repayment.
12. The HPPTCL Ltd; will create and register the charge of Bank's loan amount equivalent to Rs. 176.57 Crore with Registrar of Companies, in favour of the Bank, as per provisions of the Company's Act. The certificate of registration of charge be provided to financing Branch for record.
13. The Branch Manager shall ensure to create charge on the collateral security comprising HPPTCL's 400/220kV substation at Gumma built on land bearing Khata/Khatauni No. 148/215 Khasra No 1098/1057, 1058, 1065, 1068, 1069, 1070, 1071, 1072, 1073 and 1074, Kita 10 total measuring 02-47-42 Hectare at Mohal Ghunda, Tehsil Kotkhai, District Shimla as per zamabandi of 2018-19, comprising following in favour of the Bank (Amt In lacs) :

Sr.No.	Property	Value of Land	Civil Work	P&M	Total market Value	Realizable Value
1.	HPPTCL 400/220 KV at Gumma	668	3133	17842	21643	19545.50
2	HPPTCL 220/400 KV, 315 MVA		680	4749	5429	4886.10
3	HPPTCL 66/220 KV Addl		559.42	4306	4865.42	4428.88
	Total	**668**	**4372.42**	**26897**	**31937.42**	**28860.48**

14. The Branch Manager shall register the security interest on the collateral security under consideration in CERSAI web portal.
15. The Branch Manager shall arrange to evaluate the collateral security once in three years and legal audit of collateral security once in three years. The fees for such valuation and legal audit shall be shared amongst the consortium member banks.
16. HPPTCL is advised to insure its plants and machinery which has been offered as Collateral Security for the extant loan proposal.
17. HPPTCL shall provide Progress of works under TRANCHE-III, commissioning, petition filing, orders etc at regular intervals. HPPTCL shall arrange to provide the Utilization Certificate of the works executed with such bank finance.
18. HPPTCL shall provide LEGAL ENTITY IDENTIFIER code (LEI) before disbursement of the loan.
19. HPPTCL shall provide Audited financial statements for F.Y 2022-23 before disbursement of the loan.
20. After every subsequent financial year, HPPTCL shall provide audited financial statements within reasonable time.
21. The HPPTCL Ltd; shall be enrolled as "B" class nominal member of the Bank through its authorized signatories, before disbursement of loan.
22. The HPPTCL Ltd; shall ensure execution of prescribed post sanction documents through its authorized signatories, before disbursement of loan.

The H.P. State Co-op. Bank Ltd. Shimla

General Manager (C&D)
HPPTCL, Shimla-5

11.A.3

23. The Branch Incharge shall personally monitor the status of regular repayment of loan by HPPTCL Ltd and shall make liaison with the authorized person of HPPTCL Ltd; for constant follow up for recovery of Bank's dues so as to secure the interest of the Bank.
24. The Branch Incharge shall verify the genuiness and authenticity of documents/ information supplied by the HPPTCL ; before disbursement of loan.
25. The Bank will have the right to get inspected as and when required HPPTCL's books of accounts/unit/securities etc., by authorised officers of the Bank or qualified auditors or technical experts, as decided by Bank and cost thereof shall be borne by HPPTCL.
26. The Bank reserves the right to recall the whole amount of loan at any time, if any acts/ information furnished by the HPPTCL Ltd; to the Bank for obtaining sanction of this loan etc. is found contrary to the financial interest of the Bank.
27. The Branch Manager shall ensure that all terms and conditions as laid down in sanction letter are duly completed and an undertaking accepting the terms and conditions of the sanction be obtained in writing from the HPPTCL Ltd.

All the papers received are returned herewith for necessary action at your end.

Yours faithfully,

General Manager
Encls:- as above
Copy to:-

1. The Managing Director, HPPTCL, Himfed Bhawan, New ISBT Road, Panjri, Shimla-171005. He is requested to get the post sanction documents completed through his authorized Officer (s) in the Bank's Branch Office at The Mall Shimla.
2. Managing Director, The Kangra Central Cooperative Bank Head Office Dharamshala District Kangra for kind information and necessary action please.
3. The Managing Director, Jogindra Central Cooperative Bank Head Office Solan District Solan for kind information and necessary action please.
4. The PS to Managing Director, HPStCB Ltd; Head Office The Mall Shimla, in compliance to Board Resolution No. 9 dated 20.10.2023.

Asstt. General Manager

The H.P. State Co-op. Bank Ltd. Shimla

General Manager (C&D)
HPPTCL, Shimla-5

11.A.4

ANNEXURE - II B

H P STATE CO-OP BANK LTD

ACCOUNT STATEMENT

Print Date : 27/06/2025 From Date: 01/10/2024 To Date : 31/03/2025 Time : 6:28:21 PM Page: 1/1

Account Type : CURRENT A/C (IND /GP/GOVT/AIC)

Account Number : 43820105677 Ledger Number : 0 Limit : O.P :

Name : HPPTCL

Address : HIMFED BHAWAN NEW ISBT ROAD PANJRI SHIMLA

Effective Date : ROI :

Transactions List - HPPTCL 43820105677

S No.	Value Date	Transaction Date	Cheque Number	Txn No	Transaction Remarks	Withdrawal Amount (INR)	Deposit Amount (INR)	Balance (INR)
1	10/10/2024	10/10/2024		0	0 OPENING BALANCE	0	0	0
2	29/10/2024	29/10/2024			6443 BY AMT LOAN ACCOUNT 43855300615	0	[redacted]	460400000
3	29/10/2024	29/10/2024			58988 By UTR No KACB24303000170 &	0	[redacted]	821100000
4	29/10/2024	29/10/2024			6591 TO AMT B CLASS MEMBERSHIP	500	0	821099500
5	30/10/2024	30/10/2024			74504 By UTR No YESB24304001221 &	0	[redacted]	1061499500
6	04/11/2024	04/11/2024			138975 By UTR No PUNB24309466930 &	0	643669	1062143169
7	04/11/2024	04/11/2024			138230 TO AMT TRF TO LOAN ACCOUNT	643669	0	1061499500
8	08/11/2024	08/11/2024			167069 To UTR No HPSCN24313004709 & A/C	700000000	0	361499500
9	13/11/2024	13/11/2024			9387 To UTR No HPSCH24318004404 & A/C	150000000	0	211499500
10	14/11/2024	14/11/2024			1404 To UTR No HPSCH24319003483 & A/C	150000000	0	61499500
11	30/11/2024	30/11/2024			133461 By UTR No NEFTIN24335077422 &	0	6949214	68448714
12	30/11/2024	30/11/2024			121594 To UTR No HPSCN24335014749 & A/C	15067845	0	53380869
13	30/11/2024	30/11/2024			121595 TO AMT TRF TO LOAN ACC	6949214	0	46431655
14	03/12/2024	03/12/2024			59914 To UTR No HPSCH24338006570 & A/C	3637345	0	42794310
15	20/12/2024	20/12/2024			115939 To UTR No HPSCH24355005336 & A/C	467575	0	42326735
16	31/12/2024	31/12/2024			09631 By UTR No PUNBH24366715703 &	0	7250372	49577107
17	02/01/2025	02/01/2025			114808 TO TRANSFER	7250372	0	42326735
18	02/01/2025	02/01/2025			114811 BY TRANSFER/CREDIT BILLED	0	7250372	49577107
19	02/01/2025	02/01/2025			114812 TO TRANSFER	7194745	0	42382362
20	13/01/2025	13/01/2025			38641 To UTR No HPSCH25013003070 & A/C	30000000	0	12382362
21	13/01/2025	13/01/2025			39035 To UTR No HPSCN25013007806 & A/C	9009465	0	3372897
22	17/01/2025	17/01/2025			40301 To UTR No HPSCN25017006052 & A/C	4917533	0	2455364
23	31/01/2025	31/01/2025			10/31 By UTR No PUNBH25031948970 &	0	7196443	9651807
24	01/02/2025	01/02/2025			3871 TO AMT TRF TO LOAN ACCOUNTS	7196443	0	2455364
25	01/03/2025	01/03/2025			70098 By UTR No NEFTIN25060081989 &	0	6498228	8953592
26	03/03/2025	03/03/2025			3191 TO RECEIVED MONTHLY PAYMENT HPPTCL	6498228	0	2455364
27	21/03/2025	21/03/2025			84962 By UTR No KACB25080000087 &	0	[redacted]	34755364
28	21/03/2025	21/03/2025			85239 By UTR No YESB25080031183 &	0	[redacted]	50295364
29	21/03/2025	21/03/2025			76755 BY AMT LOAN ACCOUNT 43855300615	0	[redacted]	97455364
30	21/03/2025	21/03/2025			76803 To UTR No HPSCN25080006998 & A/C	95000000	[redacted]	2455364
31	29/03/2025	29/03/2025			16912 By UTR No KACB25088000133 &	0	[redacted]	22955364
32	29/03/2025	29/03/2025			1462 BY AMT LOAN DISBURSHED AS PER	0	[redacted]	42955364
33	29/03/2025	29/03/2025			17876 By UTR No YESB25088026757 &	0	[redacted]	82455364
34	29/03/2025	29/03/2025			1529 To UTR No HPSCN25088006946 & A/C	80000000	[redacted]	2455364
					Total	1249832934	1252288298	
					Data Balance			2455364

NOTE : 1. Unless a constituent notify's the bank immediately of any discrepency found by him/her in his/her statement of A/c it will will taken that

General Manager (C&D)
HPPTCL, Shimla-5

Scanned with CamScanner

II-B-1

ANNEXURE -11C

Cons. of 132/220KV GIS Pooling Sub Station at Charor																	
DATE OF PAYMENT	BILL NO/Erection/Supply	BASIC AMOUNT	GST	GROSS AMOUNT	Amt. of Withheld, LD and Retention	TDS@ 2%	GST TDS	Labour cess	Mobilisation Adv.	Retention	LD	Withheld	Recovery	Total Deductions	Net payable	HPPTCL Loan (Net payable + Taxes)
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
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Note: The loan from [illegible] has been availed up to 31.03.2025 only; however, the loan for FY 2025-26 onward will be availed as per requirement in due course.

Sr. Accounts Officer,
HPPTCL, Panjari,
Shimla-5

DGM (Finance),
HPPTCL, Panjari,
Shimla-5

General Manager (C&D)
HPPTCL, Shimla-5

11.C.1

HP POWER TRANSMISSION CORPORATION LIMITED
(A State Government Undertaking)
Himfed Bhawan, Panjari Shimla -05
Ph:-0177-**2626271**, FAX:-**2620227, 2626284**

ANNEXURE -12

MEMORANDUM FOR AWARD OF WORK

Subject: **Design, Engineering, Manufacture, Fabrication, Testing at Manufacturers Works, Transportation to Site, Insurance, Storage, Erection, Testing and Commissioning of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh (India)"**

-75-

1. H. P. Power Transmission Corporation Limited (HPPTCL) has received a Loan from KfW bank under Green Energy Corridors Scheme of Govt. of India for development of Intra State Transmission System in Himachal Pradesh, India. It is intended that part of the proceeds of this Loan be used for eligible payments for Supply of Material, Erection, Testing and Commissioning and related Technical Services for ***the construction of Additional 33/220 kV, 100 MVA Transformer with Associated GIS in the yard of 132/220 KV CHAROR Sub Station, Distt.- Kullu of Himachal Pradesh (India)*** for which these Bids were invited. Single - Stage: Two – Envelopes Bidding Procedure (Electronic Bidding Mode) has been followed for this procurement.

-76-

2. The Invitation for Bids was floated on the 10th October, 2018 for publication in two number English Language Newspapers viz 'Times of India' & 'The Tribune' and one edition of Hindi language newspaper 'Amar Ujala' and same were published on 13th October, 2018 **(CP-27,28,29,41,59,60)** after obtaining the KfW approval of Draft Bidding Document via e-mail dated 28th September 2018 **(CP-23)**. The Invitation for Bids was also posted on HPPTCL's Website and GTAI's website.

-77-

3. The Date of Electronic Submission and Opening of Bids in the first instance was fixed for 9th & 10th December, 2018 respectively, which was further extended on the request of the prospective Bidders to 17th & 18th December, 2018 **(CP-62)** respectively, The extension in Due Date for Submission and Opening was done with the approval of the **KfW (CP-61).** The Time for the receipt of Bids by the HPPTCL was closed at 17:00 Hrs. (Local time) on 17th December, 2018 as scheduled. Out of two (2) Firms, who had purchased the Bidding Documents, only one (1) Bidder ***M/s Kanohar Electricals Limited in Collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp. (Taiwan)*** submitted their Bid.

-78-

4. Techno- Commercial Bids were opened at 15:00 Hrs on 18th December, 2018 in the office of the General Manager (C & D), HPPTCL, Himfed Bhawan, and Panjari Shimla - 171005 by the Bid Opening Committee in the presence of Representatives of Bidders **(CP-73 to 77).** The Bidder's names were announced and recorded. The Bid Opening Committee opened the Technical Proposals on e-Tendering Platform and examined the Documents. Bidder's Name and the presence of the requisite Bid Security and its amount and validity period were announced and recorded. All the necessary Papers, Forms and Schedules were signed by the Members of the Committee. The Record of Bid Opening was prepared soon after the Bids were opened and a copy of the Record of Bid Opening was furnished to the KfW vide email dated 18th December, 2018.

-79-

5. Technical Proposals of the above mentioned Bidders were evaluated and the Technical Bid Evaluation Report (TBER) dated 16th January, 2019 was submitted to KfW **(CP-174 to 215)** with the recommendations to declare the ***M/s Kanohar Electrical Ltd. in collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp., Taiwan*** as RESPONSIVE and allow opening the Price proposal.

-80-

General Manager (C&D)
HPPTCL, Shimla-5

6. KfW vide e-mail dated 18th January, 2019 conveyed their approval to the above recommendation **(CP-216, 217) declare the** M/s ***Kanohar Electrical Ltd. in collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp., Taiwan*** **Technically Responsive**. The sole responsive bidder was informed through email & via E-Bidding platform about the decision and the date of opening of price proposals which was scheduled for 23th January, 2019 at 15:00 Hrs.**(CP-218)** -81-

7. The Price Proposals were opened at 15:00 Hrs. on 23th January, 2019 as scheduled, in the Chamber of General Manager (C & D), HPPTCL by the Bid Opening Committee. Thereafter, the Prices offered were announced and recorded. The Record of Bid Opening was prepared soon **(CP – 219 to 223)** after the Bids were announced and was submitted to KfW via email dated 23th January, 2019. -82-

8. On the basis of the systematic evaluation of Bid, which has been carried out in accordance with the provisions of the Bidding Documents, it was concluded that ***M/s Kanohar Electrical Ltd. in collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp., Taiwan*** Quoted the 16.05% higher than put to tender Cost but are within DPR cost. -83-

9. The FBER was prepared considering above recommendations and submitted to KfW on dated: 2nd March, 2019 **(CP- 229 to 281)** with the recommendation to approve the FBER. As the rates quoted for some items were on the higher side, KfW was requested to allow for negotiation with the bidder. -84-

10. KfW vide their mail dated 4th March, 2019 conveyed its approval to the Financial Bid Evaluation Report (FBER) **(CP- 282)** and did not allow negotiation as it is against the procurement guidelines of KfW. Further the bids have been invited on ICB mode and ample opportunity and time was offered to all prospective bidders, as per KfW guidelines. -85-

11. The Proposal was financially concurred by Finance cell on dated 26th February, 2019 amounting to **INR 35,96,00,107/-** only. -86-

12. **Financial Implication:-**
The Total Financial Implication, if the work is awarded to the lowest Bidder viz. M/s ***Kanohar Electrical Ltd. in collaboration with M/S Chung Hsin Electric & Machinery Mfg. Corp., Taiwan*** shall be **INR 35,96,00,107/-**. -87-

Sr. No.	Title	Amount (in INR)
1	Plant and Mandatory Spare Parts Supplied from Abroad	0.00
2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country	275,292,153.50
3	Design Services	50,000.00
4	Local transportation including port clearance and port charges and Inland Insurance Services	0.00
5	Installation and other Services including civil works	28,953,700.00
6	Training Changes (In India & Abroad)	450,000.00
7	**Sub Total for Evaluation of Bids (1:6)**	**304,745,853.50**
8	GST @ 18%	54,854,253.63
9	**GRAND TOTAL (7+8)**	**359,600,107.13**

-88-

13. Bid validity of M/s Kanohar Electricals Ltd. is up-to 15th August, 2019 and bid security is valid up to 12th September, 2019 **(CP- 222 to 223).** -89-

General Manager (C&D)
HPPTCL, Shimla-5

12.2

14. In view of above the final award amount for Supplies and Services shall be as under:-

-90-

Description	Ex Works Amount (INR)	GST (INR) @18%	Total with GST (INR)
Plant & Mandatory Spares	27,52,92,153.5	4,95,52,587.63	32,48,44,741.13
Design Services	50,000	9,000	59,000
Installation and other Services including Civil works	2,89,53,700	52,11,666	3,41,65,366
Training Charges	4,50,000	81,000	5,31,000
Total	**30,47,48,853.5**	**5,48,55,253.63**	**35,96,00,107**
Total Cost (In Words)		**INR Thirty-Five Crores Ninety-Six Lacs. One Hundred Seven only**	

-91-

15. As per the decision taken in the 32nd Meeting of Board of Directors on 28th December 2016, agenda item: 32.16 (Annexure-A), the Powers vested with worthy MD, HPPTCL for placing award in respect of turn key projects has been enhanced from 40 Crore to 50 Crore. As such, this proposal falls under the competency of worthy Managing Director, HPPTCL.

6/3/19
Er. SAHIL VERMA
Dy. Manager (Contracts)

Sr. Manager (Contracts)

6/3/19

-92-

DGM(C)

Draft NOA for approval please

GM/C&D

7/03/19

Sir (C)

-93-

For approval of competent authority

8/3/2019

Sir (C)

Dy M(C)
SM III

8/3

General Manager (C&D)
HPPTCL, Shimla-5

12-3

H.P. POWER TRANSMISSION CORPORATION LTD., SHIMLA-05

MINUTES OF 32ND MEETING OF THE BOARD OF DIRECTORS OF THE CORPORATION HELD ON 28TH DECEMBER, 2016 AT 3:30 PM AT C.S. COMMITTEE ROOM, H.P. GOVT. SECRETARIAT, SHIMLA-171002.

PRESENT:

1. Sh. V.C Pharka, IAS Chief Secretary to the Govt.of H.P., Shimla.	Chairman
2. Sh. Tarun Shridhar, IAS ACS (MPP & Power) to the Govt. of H.P. Shimla-171002.	Director
3. Dr. Ajay Sharma, IAS Director of Energy to the Govt. of H.P, Shimla	Special Invitee
4. Sh. Devendra Kumar Sharma Managing Director, HPPCL	Director
5. Er. J. P. Kalta Managing Director, HPPTCL	Director
6. Er. S. K. Sharda Director (Planning & Contracts), HPPTCL	Director
7. Er. Rajesh Singh Director (Projects), HPPTCL	Director
8. Sh. Mahesh Sharma Joint Secretary (Finance) to the Govt. of H.P. Shimla-171002.	Special Invitee

In Attendance:

1. Sh. Sudershan Kumar Sharma, Company Secretary, HPPCL.
2. Sh. Amrit Ghauhan, AGM (Finance), HPPTCL Shimla-2.

Leave of absence was granted to Sh. T.G. Negi & Dr. Shrikant Baldi, who could not attend the meeting.

Thereafter the item wise agenda was taken up in the following order:

CHAIRMAN'S INITIALS

General Manager (C&D)
HPPTCL, Shimla-5

"RESOLVED FURTHER that any Director (P & C)/ AGM (Finance) be and is hereby severally authorized to sign and file all the requisite returns as required under the Companies Act, 2013 in connection with the above Annual General Meetings."

Item No.32.16 **Memorandum for the approval of the Board of Directors of the company with respect to –Award of work for construction of ADDL. 220/400 KV Transformer & Associated GIS at existing 220/400 KV Gumma sub Station of Turnkey Basis (Complete Package).**

The proposal given in the Memorandum was explained by the Director (P & C).It was explained that at present the power of placing the award for the execution of new turn key projects has been vested with the Managing Director upto an amount award amount of Rs. 40 Cr. Any award for more than Rs. 40 Cr. is required to be approved by the BOD. The matter was deliberated and it was resolved to enhance the powers vested with MD HPPTCL for placing award in respect of turn key projects upto Rs. 50 Cr. After detailed deliberations, the "Point for Consideration" as per Memorandum was approved.

The Managing Director/Director (P & C) was authorized to take further necessary action and to do all acts and deeds in this regard.

ADDITIONAL ITEM:

Any other item with the permission of the Chair.

Approval for allowing HPTDC Hotels to the HPPTCL Officers in case of non availability of Govt. Rest Houses.

The above issue was placed by the Director (Projects) as an additional item. The whole time Directors informed that the Engineers and other officers of HPPTCL are frequently required to visit sites of the works at various ongoing projects. Since HPPTCL is not having its own rest/guest houses and normally they stay in Govt./Semi Govt. Rest Houses available in nearby vicinity. However, sometimes accommodation in these Rest Houses is not available and it becomes difficult for them to visit sites. It was, therefore, proposed to allow the visiting officers to stay in HPTDC Hotels available in these areas with the approval of the MD in case of non availability of the Govt./semi Govt. rest houses in the area.

CHAIRMAN'S INITIALS

General Manager (C&D)
HPPTCL, Shimla-5

MINUTE BOOK

The proposal given in the Memorandum was discussed and the Board was of the considered view that in order to execute the projects on fast track, the officers of the Corporation with the prior approval of the MD, HPPTCL may be allowed this facility. After detailed deliberations, the "Points for consideration" as per Memorandum were approved.

The Managing Director/Director (Projects) was authorized to take further necessary action and to do all acts and deeds in this regard.

There being no other business to transact, the meeting ended with a vote of thanks to the Chair.

V. C. Pharka, IAS
Chief Secretary and Chairman, HPPTCL

CHAIRMAN'S INITIALS

General Manager (C&D)
HPPTCL, Shimla-5

ANNEXURE -13A

F. No. 367-11/1/2018-GEC
Government of India
Ministry of New and Renewable Energy
(Green Energy Corridor)

Block 14, CGO Complex, Lodhi Road
New Delhi-110003; dated 11.06.2019

Subject: Revised Sanction of Government of India support for creation of Intra-State Transmission System to the States of Andhra Pradesh, Himachal Pradesh, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan and Tamil Nadu under Green Energy Corridor project.

I am directed to refer to this Ministry's letter with no. 11/7/2015-EFM, dated 30.09.2015 conveying the Administrative Approval for Government of India support of Rs. 4056.67 crores for creation of Intra-State Transmission System in the States of Andhra Pradesh, Himachal Pradesh, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan and Tamil Nadu under Green Energy Corridor project by the respective State Transmission Utilities.

2. Due to operational requirements, change in locations of RE projects, etc. the projects have undergone several revisions since 2015-16 and were done by the States with the approval of the Central Electricity Authority (CEA), as is mandatory in undertaking any transmission project. In order to streamline the GEC project implementation, an overall package wise sanction is hereby issued to all the States as per the CEA's technical approvals till date. The list of approved projects under GEC scheme is at **Annexure-I.** The said proposal has been recommended by the Project Appraisal Committee for Green Energy Corridor.

3. The detailed project components (including bay extensions, bus reactors, conductor type, etc.) would be as per the technical approvals of CEA communicated to the States at various stages in past years. This sanction is issued to the States along with instructions that the approval of both the Ministry and CEA would be required on making any major changes (including change in scope, alternate scheme/packages) in the GEC.

4. The projects have to be completed within the timeline approved by the Cabinet Committee on Economic Affairs (CCEA), i.e. FY 2019-20. The total central grant/financial implication towards each State, including the projects already under implementation, would be limited to the grant approved by the CCEA communicated vide Administrative Approval of the Ministry with no. 11/7/2015-EFM, dated 30.09.2015.

5. The central support/grant would be released in instalments as per the guidelines of Green Energy Corridor scheme as prevalent at the time.

6. The grantee organization/institution shall be responsible for timely execution of the project as per the Provisions contained in the guidelines and within the allocated budget. Any request for extension of the project duration or for change in budget allocation, for valid reason,

General Manager (C&D)
HPPTCL, Shimla-5

13.A.1

shall be placed before the duly constituted Committee for approval of the Competent Authority, before the expiry of the approved period of the project.

7. The proposal of cancellation of any project(s) from the scheme (as per the list annexed) is to be submitted to CEA and MNRE in writing by the Managing Director/Head of the grantee organization. Merely mentioning the same in the monthly status report shall not suffice.

8. The States are to ensure that the intra-state transmission system thus developed caters to the renewable energy projects and that the transmission capacity is not left unutilised.

9. In terms of Rule 230 (1) of GFR, the grantee organization/institute will certify that it has not obtained or applied for grants for the same purpose or activity from any other Ministry or Department of the Government of India or State Government.

10. The grantee organization/institution shall be liable for recovery of the whole or part amount of the grant/subsidy, with applicable Penal interest, in case of non-compliance of the guidelines of the scheme/sanction.

11. As per Rule 234 of GFR-2017, this sanction has been entered at S. No. 2 at page no. 3 in the GFR-21 register of grants for Green Energy Corridor.

12. This issues in exercise of the delegated powers conferred on the Ministry and in consultation of IFD vide their Dy. No. 433 dated. 19.12.2018.

(Girish Kumar)
Director
011-24368915

To

Pay & Accounts Officer, Ministry of New and Renewable Energy, New Delhi

Copy to

1. Principal Secretaries (Energy) of the eight States implementing GEC-I.
2. Managing Directors of STU / SEB of the eight States implementing GEC-I.

Copy for information to

1. PS to Hon'ble Minister, NRE.
2. Sr. PPS to Secretary, MNRE.
3. PPS to AS / PPS to AS & FA, MNRE.
4. DS (IFD), MNRE.
5. NIC to upload the same on the Ministry's website.

(Girish Kumar)

General Manager (C&D)
HPPTCL, Shimla-5

13.A.2

Annexure-I : Intra-State Transmission System Green Energy Corridor Project Details

S. No.	State	Package No.	Package Details	Substation (SS) / Line	MVA / CKM
1	Andhra Pradesh	1	i) Hindupur 400/220kV Substation	SS	945
			ii) 2Nos. 400kV Feeder Bay extension works at 400KV Uravakonda SS.	Bay	
			iii) 400kV line from Uravakonda SS to Hindupur SS	Line	253
2		2	Erection of Bay Extensions works at : i) Uravakonda 400kV SS	Bay	
			ii) Jammalamadugu 400kV SS	Bay	
			iii) Hindupur 400kV SS	Bay	
3		3	i) Procurement of 315 MVA Transformers (5 nos) at Hindupur (4), Jammalamadugu (1)	Procurement	
			ii) Procurement of 500 MVA Transformers (2 Nos.) at Uravakonda	Procurement	
			iii) 80 MVAR Bus reactors : a) Hindupur - 1 no., b) Uravakonda - 1 no., c) Jammalanadugu - 1 no.	Bus reactors	
4		4	a) 220 KV line from Jammalamadu SS to Betamcherla SS	Line	136
			b) 220/132/33 KV SS at Bethamcherla	SS	383
			c) 132kV LILO line from 132kV Suzlon Wind PStation - existing 132kV Jammalamadugu SS to the proposed 400/220/132kV Jammalamadugu SS	Line	24
			e) 220 KV line - Jammalamadugu SS to Tadipatri SS	Line	80
			f) 220 KV Bay Extensions at 220 KV Tadipatri Substation	Bay	-
			g) Stringing of 2nd Ckt on 132 KV DC/SC Line from Badvel-Porumamilla Line and LILO of Both Circuits to 220KV SS Porumamilla on Multi Ckt Towers	Line	4
			h) 132 KV Bay Extensions at 220 KV Porumamilla SS (2 Nos), 132/33 KV Porumamila SS(1Nos) and 132/33 KV SS Badavel SS (1 No)	Bay	
5		5	a) 220/132 KV Substation at Pampanur Tanda	SS	320
			b) 220 KV line from Hindupur SS to Pampanur Tanda SS	Line	180
6		6	220 KV D/C line from Hindupur SS to Penukonda SS	Line	70
			220/132 KV Substations at Penukonda	SS	320
			220 KV DC Moose line from 400KV Hindupur SS to 220 KV Hindupur SS/Gollapuram SS	Line	56
			132 KV DC line from 220/132 KV Penukonda SS to 132 KV Penukonda SS	Line	20
			220 KV BEs at 220 KV Hindupur /Gollapuram Substation	Bay	-
			132 KV Bays at 132/33 KV Penukonda Substation	Bay	-
		7	Procurement of Power Transformers (PTRS), Reactors for 220 kV Substations	Procurement	-
7	Gujarat	1	220 KV Babara substation (Dist. Amreli)	ss	620
8		2	220 kV Kalavad GIS substation (Dis. Jamnagar)	ss	480
9		3	220 KV Moti Gop substation (Dist. Jamnagar)	ss	480
10		4	Up-gradation of 132 KV Wankaner substation to 220 KV level (Dist. Rajkot) - Hybrid / GIS technology	ss	780
11		5	400 KV Bhachunda GIS substation (Dist. Kutch) (220/66 KV scheme is already approved)	ss	1500
12		6	400/220/66 KV Bhogat GIS substation (Dist. Jamnagar)	ss	1820

General Manager (C&D)
HPPTCL Shimla-5

12.A.3

13	Gujarat	7	400 KV D/C Shapar – Pachham (Fedra) line (Twin AL-59)	line	200
14		8	220 kV D/C Amreli-Babara line (AL-59)	line	50
15		9	220 kV D/C Shapar-Babara line (AL-59)	line	120
16		10	220 KV, 1 x 25 MVAR Bus Reactors each at 220 KV Moti Paneli, Bhatia, Nakhatrana, Bhachau & Deodar substations	Reactor	
17		11	220 KV Bhachunda GIS substation (Dis. Kutch)	ss	320.00
18		12	400 KV D/C Bhogat – Kalavad line	Line	261
19		13	400 KV Hadala – Shapar line (Twin AL-59)	Line	124
20		14	LILO of both circuits of 220 KV D/C Jamanvada – Varsana line at 220 KV Bhachunda (AL-59) M/C line	Line	82
21		15	LILO of one circuit of 220 KV D/C Akrimota – Nakhatrana line at Bhachunda	Line	52
22		16	220 KV D/C Bhatia - Bhogat line (AL-59)	Line	26
23		17	220 KV D/C Bhogat - Ranavav line (AL-59)	Line	140
24		18	LILO of one circuit of 220 KV D/C Gandhinagar TPS – Chhatral line at Vadavi (AL-59)	Line	25
25		19	220 KV D/C Chorania – Salejada line (AL-59)	Line	135
26		20	220 KV D/C Radhanpur – Sankhari line (AL-59)	Line	96
27		21	LILO of one Circuit of 220 KV D/C Hadala - Sartanpar at 220 KV Wankaner (AL-59)	Line	13
28		22	LILO on 220 KV S/C Lalpar - Sartanpar line at 220 KV Wankaner (M/C tower by replacement of existing 132KV towers) (AL-59)	Line	40
29		23	220 KV D/C Bhogat – Moti Gop line (AL-59)	Line	139
30		24	LILO of both circuits of 220 KV D/C Tebhda – Nyara line at Moti Gop substation (M/C line)	Line	59
31		25	400 kV D/C Bhachunda – Varsana line	Line	280
32		26	LILO of both circuits of 132 KV D/C Sitac WF - Jasdan line at Babara (M/C line)	Line	50
33		27	1 No. of 220 KV Reactor bay each at MotiPaneli, Bhatia, Nakhatrana, Bhachau and Deodar substations	Reactor	
34		28	400 KV Shapar GIS substation (Dist. Surendranagar) (1) 400/220 KV, 3 X 500 MVA Trf with Bay (2) 220/66 KV 3 X 160 MVA Trf with bay (3) 10 Nos. of 400 KV feeder bays (4) 10 Nos. of 220 kV Line Bays (5) 400 KV, 1 x 125 MVAR Reactor with bay (6) 12 nos of 66 kV Bays	SS	1980

35	Himachal Pradesh	1.1	Construction of 66/220 kV, 80/100 MVA sub station in the yard of 132/220 kV Sunda sub station	Substation	100
		1.2	66 kV D/C line from Sunda to Andhra	T-Line	12
36		2	22/132 kV , 2x31.5 MVA sub station in the yard of Tangnu Romai HEP	Substation	63
37		3	132 kV D/C line from 22/132 kV sub station at Tangnu Romai HEP to 132/220 kV sub station at Sunda.	T-Line	24
38		4.1	32/220 kV, 2x100 MVA GIS sub station at Dehan in Distt. Kangra	Substation	200
		4.2	220 kV D/C Transmission Line (55 Kms) from Dehan sub station to 400/220 kV sub station of PGCIL at Hamirpur	T-Line	110
39		5	33/132 kV, 31.5 MVA sub station in the yard of Rupin HEP	Substation	31.5
40		6	132 kV D/C line between 33/132 kV sub station at Rupin HEP and 132/220 kV sub station at Sunda	T-Line	44
41		7	66/220 kV, 100 MVA sub station at Heling by LILO of 220 kV Bajoli Holi-Lahal D/C line	Substation	100

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42	Himachal Pradesh	8	Providing additional 33/220 kV, 100 MVA Transformer at 132/220 kV, 100 MVA GIS sub station at Charor (ADB funded) in Distt. Kullu	Substation	100
43		9	Providing additional 33/132 kV, 31.5 MVA Transformer at 33/132 kV, 31.5 MVA GIS sub station at Pandoh in Distt. Mandi	Substation	31.5
44		10	Providing additional 400/220 kV, 1x315 MVA transformer in the 400/220 kV sub station at Gumma (ADB funded) in Distt. Shimla.	Substation	315
45		11	33 kV GIS switching station at Palchan in Distt. Kullu.	Switching station	
46		12	33 kV Palchan-Prini line	T-Line	17.2
47		13	220 kV Snail-Hatkoti line	T-Line	12.97
48		HPSEB A (P-I)	a. Augmentation of existing conductor of 66 kV D/C line between Ghanvi-II to Kotla with HTLS conductor b. Augmentation of existing conductor of Kotla- Nogli-Samoli 66 kV line with HTLS conductor c. 22 kV D/C Line from Gumma to Andhra d. 22 kV D/C Line from Rukti to Shaung	Line	78
		HPSEB A (P-II)	a. 66/22 kV GIS Sub Station at Pooh along with 66 kV Line b. 66 kV line from Nathpa to Wangtoo c. 66 kV line from Hatkoti to Samoli	Sub-Station & Line	10 MVA / 18 ckm
		HPSEB A (P-III)	a. Providing additional 10 MVA, 66/22 kV Power Transformer with spare bay at Nogli Sub-Station b. Augmentation of 2nd 10 MVA, 66/22 kV Power Transformer to 20 MVA at 66/22 kV Sub-Station Samoli c. 66/22 kV Sub-Station Hatkoti d. Construction of additional 66/22 kV, 1x25/31.5 MVA Sub-Station at Andhra e. 66/22 kV sub station Rukti at shaung power house f. One 66 kV terminal bay at Nathpa	Sub-Station	74 MVA
49		HPSEB B.1 (P-I)	a. Augmentation of 22KV S/C HT Line from 22 kV Control point Kotkhai to 22 kV control point to Gangtoli b. Augmentation of 33 kV HT Line from 33/11 KV S/Stn. Shillai to Sataun & augmentation of Transformer at Shillai S/S c. Augmentation of 33 KV S/C HT line from Dhaula Kuan to Dadahu	Sub-Station & Line	18 ckm
		HPSEB B.1 (P-II)	a. 33kV line from Gondpur (Paonta) to Sataun b. 22KV line from Jhakri to Rampur c. 22KV line from Rampur to Nogli d. 22KV line between Karcham and Bhoktoo e. 22kV terminal bays at Hatkoti & Kotkhai	Line	71 ckm
50		HPSEB B.2	a. 33KV overhead line to underground cable from Dunkhra (Jari) to Manikaran b. Reconductoring & strengthening of 11KV feeder from Barshaini SS to Dunkhra SS c. Conversion of 33KV Bajaura - Naggar single circuit line into double circuit d. 33 KV line Prini Sub-Station to Sub-Station in the Yard of AD Hydro HEP e. Strengthening of 33KV (Double Circuit) Pandoh- Bijni line f. Strengthening of 33KV (Single Circuit) Padhar(Gwali)- Bijni line g. LILO OF 33 kV Pandoh-Bijni line at proposed 132/33 kV S/s at Pandoh h. Interlinking of 33 kV Naggar-Bajaura feeder at 6 pole structure	Line	137 ckm

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51	Himachal Pradesh	HPSEB B.3 (P-I)	a. Augmentation of existing 33 kV Gharola to LILO point at Karian of 33 kV line from Gharola to Chamba b. Strengthening / Up-gradation of existing S/C 33 kV feeder No.II from Baner Power House to 132/33/11 kV Sub-Station Dehan c. LILO of one circuit of 33 KV D/C line from Shahpur to Kangra at proposed 33/132 KV CHAMBI Sub-Station and LILO 33kV S/C line from Gaj to Shahpur at 33/132kV sub-stastion Chambi	Line	104 ckm
		HPSEB B.3 (P-II)	a. 33KV D/C line from Salooni to Koti b. line from 33/11 kV Darkata (Ranital) SS to 33/11 kV un-manned SS c. Augmentation of existing 33 kV line from Gaj Powerhouse to kangra d. LILO of Bharmour- Gharola line at Lahal e.Construction of 33 kV S/c line from Jassore a/w terminal bay at Jassore and Sihunta	Line	90 ckm

52	Karnataka	1	Gadag(Dhoni): Establishing 400/ 220 kV Sub station	SS	2x500
		1.1	Gadag(Dhoni)_line : 400kV LILO line Guttur-Guddadahalli SC line to the proposed 400/220kV Station at Gadag(Doni)	Line	54
		1.2	220kV DC LILO line from 220kV Gadag-Lingapur DC line to the proposed 400/220kV station at Gadag(Doni)	Line	5
53		2	220 kV SC line on DC towers from existing 400 kV PGCIL station at Beeranahalli (Hiriyur) to existing 220/66/11 kV KPTCL station at Hiriyur in Chitradurga district in existing corridor of 220 kV SC line from Hoysalakatte to 220/66/11 kV station Hiriyur	Line	15
		2.1	220 kV DC line on DC towers from existing 220/66 kV station Chitradurga to existing 220/66 kV Station Hiriyur in Chitradurga district in existing corridor	Line	78
54		3	Jagalur (Hiremallanahole): 400/220 kV S/s in Davanagere district	SS	2x500
54		3.1	400 kV DC line to link the proposed 400/220 kV Jagalur (Hiremallanahole) S/s from anchor point 39/0 of 400 kV Rampura limits to Jagalur line	Line	1
		3.2	400 kV DC line with Quad Moose ACSR for a length of about 64.5 Kms from Rampura limits (400 kV MC line from BPS) upto Anchor point 39/0 near proposed 400/220 kV S/s at Jagalur (Hiremallanahole)	Line	129
		3.3	220 kV DC lines from proposed 400 kV Jagalur (Hiremallanahole) to 220 kV existing Thallak (27.47 Kms) , Kudligi (35.64 Kms) and Chitradurga S/s (41.449 Kms)	Line	209.1
55		4	220kV DC line for having LILO arrangement of 220kV Narendra-Haveri first circuit to 220kV Station Bidnal in Haveri and Dharwad districts	Line	31
56		5	220/66 kV and 66/11kV sub station at Hosadurga, Hosadurga taluk, Chitradurga district	SS	2x100, 1x12.5
		5.1	220 kV DC line from proposed 220/66 kV Benkikere S/s to proposed 220/66 kV Hosadurga S/s	Line	82
57		6	220/66 kV and 66/11kV sub station at Shivanasamudra, Malavalli taluk, Mandya district.	SS	2x100, 80
		6.1	220 kV Double DC line on MC towers tapping from existing 220 kV DC T.K.Halli-Madhuvanahally line to the proposed sub-station Shivanasamudra	Line	4.274
58		7	220/110 KV & 110/11 KV Sub station at Mughalkod in Raibag Taluk, Belgaum District	SS	2x100, 1x10
		7.1	220 kV DC LILO of Chikkodi –Ghataprabha line	Line	LILO

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59	Madhya Pradesh	Package-I	220kV Double Circuit Double Strung line from Julwaniya 400kV S/s to Sendhwa 220kV S/s	Line	70 CKM
			New 220/132kV S/s at Sendhwa	SS	1x160 + 1x63 MVA
			2 nos 220kV Feeder Bays at Julwaniya 400kV S/s	FB	2 Nos.
			132kV Interconnector between Sendhwa 220kV S/s and Sendhwa 132kV S/s	Line	12 CKM
			2 nos132 KV Feeder Bays at Sendhwa 220kV S/s	FB	2 Nos.
			132kV Double Circuit Double Strung line from Sendhwa 220kV S/s to Pansemal 132kV S/s	Line	95 CKM
			2 nos132 KV Feeder Bays at Pansemal 132kV S/s	FB	2 Nos.
			220kV Double Circuit Double Strung line from Badnawar 400kV S/s to Kanwan 220kV S/s	Line	63.8 CKM
			New 220/132kV S/s at Kanwan	SS	1x160 + 1x63 MVA
			2 nos 220kV Feeder Bays at Badnawar400kV S/s	FB	2 Nos.
			220kV Double Circuit Double Strung line from Kanwan 220kV S/s to Dhar 220kV S/s	Line	62.7 CKM
			2 nos 220kV Feeder Bays at Dhar 220kV S/s	FB	2 Nos.
			132kV Inter connector between Kanwan220kV S/s and Kanwan132kV S/s	Line	29.6 CKM
			2 nos 132kV Feeder Bays at Kanwan 132kV S/s	FB	2 Nos.
			132kV Double Circuit Double Strung line from Kanwan 220kV S/s to Teesgaon 132kV S/s	Line	24.6 CKM
			2 nos132kV Feeder Bays at Teesgaon 132kV S/s	FB	2 Nos.
			Second circuit stringing of 132kV Jhabua - Meghnagar 132kV Double Circuit Single Strung line	Line	26 CKM
			1 No. 132 KV feeder bay at existing 132kV Substation Jhabua and 1 No. 132 KV feeder bay at existing 132kV Substation Meghnagar	FB	2 Nos.
			Second circuit stringing of 132kV Rajgarh(D)220 - Jhabua 132kV Double Circuit Single Strung line	Line	68.8 CKM
			Second circuit stringing of 132 kV Rajgarh (D) 220- Petlawad 132 kV DCSS line	Line	54 CKM
			1 No. 132 KV feeder bay at existing Substation Rajgarh(D)220 and 1 No. 132 KV feeder bay at existing 132kV Substation Jhabua	FB	2 Nos.
			1 No. 132 KV feeder bay at existing Substation Rajgarh(D) 220 and 1 No. 132 KV feeder bay at existing 132kV Substation Petlawad	FB	2 Nos.
60		Package-II	400kV Double Circuit Double Strung line from Nagda 400kV S/s to Mandsaur 400kV S/s	Line	137.32 CKM
			New 400/220kV S/s at Mandsaur with Bus Reactor	SS	2x315+ 2x160 MVA
			2 nos 400kV Feeder Bays at Nagda 400kV S/s	FB	2 Nos.
			LILO both circuits of Nagda - Neemuch 220kV line at Mandsaur 400kV S/s	Line	86 CKM
			LILO both circuits of Neemuch - Mandsaur 132kV line at Mandsaur 400kV S/s	Line	142 CKM
			220kV Double Circuit line - Mandsaur 400kV S/s to Marut Shakti Pool 220kV S/s	Line	92 CKM
			2 nos220kV Feeder Bays at Marut Shakti Pool 220kV S/s	FB	2 Nos.
61		Package-III	220kV Double Circuit Double Strung line from Betul 220kV S/s to Gudgaon 220kV S/s	Line	93.5 CKM
			New 220/132kV S/s at Gudgaon	SS	1x160 + 1x63 MVA
			2 nos 220kV Feeder Bays at Betul 220kV S/s	FB	2 Nos.
			132kV Interconnector between Gudgaon 220kV S/s and Gudgaon 132kV S/s	Line	20 CKM
			2 nos 132KV Feeder Bays at Gudgaon132kV S/s	FB	2 Nos.

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61	Madhya Pradesh	Package-III	LILO one circuit of Satna(PGCIL) – Bina(PGCIL) 400kV line at Sagar 400kV S/s	Line	50 CKM
			New 400/220kV S/s at Sagar (Upgradation) with Bus Reactor	SS	2x315 MVA
			Second circuit stringing of Sidhi 220kv - Mauganj 132kV Double Circuit Single Strung line	Line	60 CKM
			1 No. 132 KV feeder bay at existing 220kV Substation Sidhi and 1 No. 132 KV feeder bay at existing 132kV Substation Mauganj	FB	2 Nos.
			Second circuit stringing of Maihar - Amarpatan 132kV Double Circuit Single Strung line	Line	26 CKM
			1 No. 132 KV feeder bay at existing 132kV Substation Maihar and 1 No. 132 KV feeder bay at existing 132kV Substation Amarpatan	FB	2 Nos.
			1 No. 132 KV feeder bay at existing 132kV Substation Birsinghpur and 1 No. 132 KV feeder bay at existing 132kV Substation Shahdol	FB	2 Nos.
62		Package-IV	220kV Double Circuit Double Strung line from Neemuch 220kV S/s to Ratangarh 400kV S/s	Line	85 CKM
			220/132kV S/s at Ratangarh 400kV S/s	SS	2x160 + 1x63 MVA
			2 nos 220kV Feeder Bays at Neemuch 220kV S/s	FB	2 Nos.
			132kV Interconnector between Ratangarh 400kV S/s and Ratangarh 132kV S/s	Line	8.4 CKM
			2 nos132 KV Feeder Bays at Ratangarh 132kV S/s	FB	2 Nos.
			220kV Interconnector between Sailana 400kV S/s and Ratlam Switching 220kV S/s	Line	66.4 CKM
			220/132kV S/s at Sailana 400kV S/s	SS	2x160 + 1x63 MVA
			2 nos 220kV Feeder Bays at Ratlam Switching 220kV S/s	FB	2 Nos.
			Second circuit stringing of Ratlam Switching - Daloda 220kV Double Circuit Single Strung line	Line	72 CKM
			1 No. 220kV feeder bay at existing Ratlam Switching Substation and 1 No. 220kV feeder bay at existing Substation Daloda	FB	2 Nos.
			LILO of Ratlam – Daloda 220kV line at Jaora220kV S/s (Route lenght-15 Kms)	Line	7 CKM
			220/132kV S/s at Jaora (Upgradation)	SS	2x160 + 1x40 MVA
			132kV Interconnector between Sailana 400kV S/s and Sailana 132kV S/s (Route lenght-10 Kms)	Line	36.6 CKM
			2 no.s 132kV Feeder Bays at Sailana 132kV S/s	FB	2 Nos.
			Second circuit stringing of Alot - Sitamau 132kV Double Circuit Single Strung line (Route lenght-40 Kms)	Line	43 CKM
			1 No. 132 KV feeder bay at existing 132kV Substation Alot and 1 No. 132 KV feeder bay at existing 132kV Substation Sitamau	FB	2 Nos.
63		Package-V	400kV Double Circuit Double Strung line from Astha 400kV S/s to Ujjain 400kV S/s (Route length-100 Kms)	Line	180 CKM
			2 nos 400kV Feeder Bays at Astha 400kV S/s	FB	2 Nos.
			400kV Double Circuit Double Strung line from Indore(PGCIL) 765kV S/s to Ujjain 400kV S/s	Line	90 CKM
			2 nos 400kV Feeder Bays at Indore (PGCIL) 765kV S/s	FB	2 Nos.
64		Package-VI	New 400/220kV S/s at Ujjain with Bus Reactor	SS	2x315 + 2x160 MVA
			400kV Double Circuit Double Strung line from Nagda 400kV S/s to Ujjain 400kV S/s (Route length-65 Kms)	Line	106 CKM
			2 nos 400kV Feeder Bays at Nagda 400kV S/s	FB	2 Nos.

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65	Madhya Pradesh	Package-VII (Lot-I)	Second circuit stringing of Sabalgarh 220kV – Vijaypur 132kV Double Circuit Single Strung line	Line	32 CKM
			1 no 132/33kV 40 MVA Additional Transformer at existing 132kV Substation Vijaypur	SS	40 MVA
			1 No. 132 KV feeder bay at existing 132kV Substation Vijaypur and 1 No. 132kV feeder bay at existing 220kV Substation Sabalgarh	FB	2 Nos.
			Second circuit stringing of Astha 400kv - Ichhawar 132kV Double Circuit Single Strung line	Line	35 CKM
			1 No. 132 KV feeder bay at existing 400kV Substation Astha and 1 No. 132 KV feeder bay at existing 132kV Substation Ichhawar	FB	2 Nos.
			Second circuit stringing of Susner(Nalkheda) – Moman Badodiya 132kV Double Circuit Single Strung line	Line	30 CKM
			1 No. 132 KV feeder bay at existing 132kV Substation Moman Badodiya	FB	1 No.
			220kV Double Circuit Double Strung line from Ujjain 400kV S/s to Susner (Nalkheda)220kV S/s	Line	200 CKM
			New 220/132kV S/s at Susner (Nalkheda)	SS	2x160+1x63 MVA
			LILO both circuits of Ujjain – Badod and Ujjain - Nagda 220kV line at Ujjain 400kV S/s	Line	80 CKM
			LILO both circuits of Ujjain – Tarana 132kV line at Ujjain 400kV S/s	Line	20 CKM
		Package-VII (Lot-II)	132kV Double Circuit Double Strung line from Alot S/s to Zarda S/s	Line	50 CKM
			2 nos 132kV Feeder Bays at Alot 132kV S/s and 2 nos 132kV Feeder Bays at Zarda 132kV S/s	FB	4 Nos.
			Second circuit stringing of Mahidpur - Zarda 132kV Double Circuit Single Strung line	Line	24 CKM
			1 No. 132 KV feeder bay at existing 132kV Substation Mahidpur and 1 No. 132 KV feeder bay at existing 132kV Substation Zarda	FB	2 Nos.
			220kV Double Circuit Double Strung line from Badod 220kV S/s to Susner (Nalkheda) 220kV S/s	Line	70 CKM
			2 nos 220kV Feeder Bays at Badod 220kV S/s	FB	2 Nos.
			LILO one circuits of Susner – Jeerapur 132kV line at Susner (Nalkheda) 220kV S/s	Line	40 CKM
			Line in Line out (LILO) one circuits of Agar – Susner 132kV line at Susner(Nalkheda) 220kV S/s (Route length-20 Kms)	Line	40 CKM
			Second circuit stringing of Susner - Jeerapur 132kV Double Circuit Single Strung line	Line	32 CKM
			1 No. 132 KV feeder bay at existing 132kV Substation Susner and 1 No. 132 KV feeder bay at existing 132kV Substation Jeerapur	FB	2 Nos.
			Second circuit stringing of Tarana - Makdon 132kV Double Circuit Single Strung line	Line	28 CKM
			1 No. 132 KV feeder bay at existing 132kV Substation Tarana and 1 No. 132 KV feeder bay at existing 132kV Substation Makdon	FB	2 Nos.
			LILO of Ujjain 220 - Agar 132 line at Makdon 132kv	Line	60 CKM
			2 nos 132kV Feeder Bays at Makdon 132kV S/s	FB	2 Nos.
			220kV Double Circuit Double Strung line from Rajgarh(B) 220kV S/s to Susner(Nalkheda) 220kV S/s	Line	144 CKM
			2 nos 220kV Feeder Bays at Rajgarh(B) 220kV S/s	FB	2 Nos.
			Second circuit stringing of Agar - Susner 132kV Double Circuit Single Strung line	Line	35 CKM
			1 No. 132 KV feeder bay at existing 132kV Substation Agar and 1 No. 132 KV feeder bay at existing 132kV Substation Susner	FB	2 Nos.

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66	Madhya Pradesh	Package-VIII	400KV 315 MVA Power transformers - 2 Nos - Mandsaur, 2 Nos - Sagar, 2 Nos - Ujjain	Transformer	315MVA (6 Nos.)
			220KV 160 MVA Power transformers - 2 Nos - Mandsaur400, 2 Nos - Ujjain400, 2 Nos - Ratangarh, 2 Nos - Sailana, 2 Nos - Jaora Upgradation, 2 Nos - Susner, 1 No.- Sendhwa, 1 No.- Kanwan, 1 No. - Gudgaon	Transformer	160MVA (15 Nos.)
			132KV Power transformers - 63MVA, 132/33kV Transformers - 6 Nos Sendhwa,Kanwan, Ratangarh, Sailana, Gudgaon, Susner 40MVA, 132/33kV Transformers - 3 Nos Jaora Upgradation, Nalkheda, Vijaypur	Transformer	63MVA (6 Nos.) 40MVA (3 Nos.)

Maharashtra has divided its three packages into 27 elements

67 - 69	Maharashtra	1	2nd ckt. stringing of 220 kV Miraj - Ichalkaranji (Tilawani) SCDC line	Line	30
		2	132 kV Kavthemahankal - Savlaj SCDC line	Line	25
		3	132 kV Kadegaon - Kirloskarwadi DCDC line	Line	28
		4	132 kV Kavthemahankal - Jath D/C line	Line	64
		5	LILO of 132 kV Lonand - Phaltan S/C line at Phaltan MIDC	Line	6
		6	LILO of 132 kV Mayni - Dighanchi S/C line at Mhaswad S/s.	Line	10
		7	2nd ckt. stringing of 132 kV Kale (T) - Warna line	Line	20
		8	2nd ckt. stringing of 132 kV Aundh - Dahiwadi SCDC line	Line	30
		9	132 kV D/C line from 220 kV Sawantwadi - Kudal	Line	50
		10	2nd ckt. stringing of 132 kV Manmad - Yeola SCDC line	Line	30
		11	LILO on 132 kV Ozar - Chandwad S/C line at 220/132 kV Pimpalgaon S/s.	LILO	10
		12	2nd ckt. stringing of 132 kV Nandurbar - Visarwadi D/C line	Line	44
		13	2nd ckt stringing of 220 kV Valve - Jamde SCDC line	Line	30
		14	1 x 25 MVAR Bus reactors at 220 kV Dhule s/s.	Reactor	-
		15	220 kV D/C line from M/s.Vish Wind S/s. - Bhenda	Line	120
		16	M/C line to connect 132KV Khaprale- Sangamner line to 220KV Sinnar (Musalgaon) S/s.	Line	20
		17	132 kV Ahmednagar - Supa DC Line using existing Corridor.	Line	47
		18	2nd ckt. stringing of 132 kV Shevgaon - Bhenda D/C line	Line	26
		19	2nd ckt. stringing of 132 kV Shevgaon - Pathardi D/C line	Line	23
		20	132 kV Ahmednagar - Ahmednagar MIDC D/C line	Line	28
		21	132 KV D/C Babhaleshwar - Rahuri - Ahmednagar MIDC line	Line	120
		22	2nd ckt. stringing of 132 kV Shevgaon - Ghodegaon SCDC line	Line	40
		23	132 kV Kharda - Ashti D/C partly on M/C tower	Line	91
		24	2nd ckt. stringing 132 kV Georai - Beed SCDC	Line	45
		25	LILO of one ckt of 220 kV Beed - Patoda D/C line at 220KV Manjarsumbha s/s.	Line	10
		26	LILO of 132 kV Sawangi - Pishor at 220 kV Phulambri S/s.	Line	13
		27	LILO of 132 kV Padegaon - Sillod S/C line at 220 kV Phulambri S/s.	Line	13

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70	Rajasthan	ICB-1	400/220kV GSS at Jaisalmer-2 alongwith 2 Nos. bays at Barmer and 1 No. bay at Akal	SS	1000 MVA
71		ICB-2	400kV D/C Jaisalmer -2 -Barmer line	Line	260kms.
			400kV D/C Barmer -Bhinmal (PGCIL) line	Line	280kms.
72		ICB-3	Procurement of Moose Conductor for 400kV D/C Jaisalmer (2) - Barmer line , Barmer -Bhinmal (PGCIL) line and 400kV S/C Jaisalmer(2)-Akal	Procurement	
73		ICB-4	Procurement of 2 Nos. 400/220kV 500MVA Power Transformers.	Procurement	1000 MVA
			Procurement of 1 Nos. 400kV 125MVAR Bus Type Reactor.	feeder modification	125MVAR
74		ICB5	220/132 kV GSS at Chhatargarh	SS	160 MVA
75		ICB6	220 kV D/C Gajner-Chhatargarh line	Line	100
			132 kV D/C Chhatargarh-Loonkaransar line	Line	77
76		ICB7	220 kV D/C Akal-Jaisalmer-2 line	Line	75
77		ICB-8	LILO of one circuit of 400kV D/C Akal- Jodhpur(new) line at 400kV GSS Jaisalmer-2	Line	10
78		ICB-9	2 Nos. 220kV feeder bays at 400kV GSS Jaisalmer-2 and 1 no. 400kV feeder bay at 400kV GSS Jaisalmer-2 with additional hardware for conversion of one 400kV twin Moose bay to Quad Moose bay	feeder bay	....
79		ICB-10	Procurement of 3 Nos. 400/220kV 500MVA Power Transformers at 400kV GSS Akal along with dismantling ,shifting of 2 Nos. 400/220kV 315MVA Power Transformers at 400kV GSS Jodhpur-New (Kakani) and 1 No. 400/220kV 315MVA Power Transformer at 400kV GSS Jodhpur-Old (Surpura).	Procurement	1500 MVA
			Procurement of Power Transformers 160MVA- 2No. and 40/50 MVA-1 No.	Procurement	370 MVA
80		ICB-11	Procurement of Moose Conductor- 240 Kms approx. , Zebra Conductor- 1050 Kms approx. Panther Conductor- 465 Kms approx (for 400kV, 220kV and 132 kV lines at Jaisalmer, Chattargarh, Gajner, Loonkaransar)	Procurement	

81	Tamil Nadu	1	400 kV SS at Thennampaati	Sub station	1030 MVA
82		2	Thenampatty - Kayathar 400 kV line	Transmission line	48 CKM
83		3	Rasipalayam - Palavadi 400 kV transmission line	Transmission line	378 CKM
84		4	230 KV Transmission lines & Bay Extns: a. Kayathar 400 kV Substation – Tuticorin b. Veeranam-Tirunelveli (PGCIL) Substation c. Veeranam- Kodikurichi d. Ingur- Arasur 400 kV Substation (PGCIL) e. Arasur 400 kV Substation (PGCIL) – Gobi SS f. Cuddalore- SP Koil (Veerapuram)	Transmission line	665 CKM
85		5	Augmentation of 230/110KV transformation capacity at six existing Sub-stations - Sembatty SS, Anupankulam SS, Cuddalore SS, Pudukottai SS, Tiruvannamalai SS, Villupuram SS	Sub station	1220 MVA

NOTE : The detailed project components (including bay extensions, bus reactors, conductor type, etc.) would be as per the technical approvals of CEA communicated to the States from time to time

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ANNEXURE -13B

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत प्रणाली योजना एवं मूल्यांकन-I प्रभाग
Power System Planning & Appraisal-I Division

सेवा में /To,

Joint Secretary,
MNRE, Atal Akshay Urja Bhawan,
CGO Complex, Lodhi road,
New Delhi-03

विषय /**Subject:** Implementation of Intra-state Transmission system in Himachal Pradesh under Green Energy Corridor-I – balance 30 % of eligible NCEF Grant from MNRE for the Package "Additional 33/220 kV, 100 MVA transformer with associated GIS in the yard of 132/220 kV Charor Substation" -regarding.

संदर्भ /Reference:

(i) HPPTCL letter no. HPPTCL/PLG/012/1/2023/Planning Cell- HPPTCL/I/424260/ 2024 dated 19.06.2024
(ii) CEA mail dated 31.07.2024
(iii) HPPTCL mail dated 26.09.2024

Sir,

HPPTCL vide its letter under reference (i) has submitted proposal to CEA for the examination and settlement of balance 30 % of eligible NCEF claim for the commissioned package- "Additional 33/220 kV, 100 MVA transformer with associated GIS in the yard of 132/220 kV Charor Substation".

The same has been examined and clarifications were sought by CEA vide email under reference (ii) above, which was replied by HPPTCL vide their email under reference (iii).

Accordingly, as envisaged in the the guidelines issued by MNRE vide letter no 1/7/2015-EFM dated 21.09.2016 and its amendment dated 30.05.2021 for disbursal of NCEF Grant for the development of Intra State Green Energy Corridor in the States, CEA's input on

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CEA-PS-II-2(17)/2/2018-PSPA-I Division

1/431st/2024

HPPTCL's claim for balance 30% of 40% eligible NCEF grant for the commissioned package is enclosed at **Annexure-I** for consideration of PAC.

संलग्न / Encl. - उपरोक्त / as above

भवदीय/ Yours faithfully,

16.12.2024

(ईशान शरण / Ishan Sharan)

(मुख्य अभियन्ता / Chief Engineer)

प्रति लिपि / CC: Deputy General Manager (Contracts), HPPTCL, Himfed Bhawan, Panjari, Shimla-171005

General Manager (C&D)
HPPTCL, Shimla-5

13.12

Annexure-I

HPPTCL vide letter dated 19.06.2024 has intimated that the following project has been commissioned and has requested CEA to issue certificate/ recommendation for release of balance 30 % of eligible NCEF claim:

- Additional 33/220 kV, 100 MVA transformer with associated GIS in the yard of 132/220 kV Charor Substation

A. Summary of initial 70% of 40% eligible NCEF grant for the above mentioned transmission project processed by CEA:

S. No.	Package details	Date of CEA's recommendation letter	Amount Recommended (Rs. Crore)
1.	Additional 33/220 kV, 100 MVA transformer with associated GIS in the yard of 132/220 kV Charor Substation	13.08.2019	10.06 (70% of eligible NCEF grant of Rs. 14.38 Cr.)

B. Inputs for HPPTCL's claim for balance 30% of 40% eligible NCEF grant for commissioned package to Project Appraisal Committee are as follows:

1. The details of commissioned projects as submitted by HPPTCL is given below:

S. No.	Package Details	Date of Award	Awarded to	Date of Commissioning
1	Additional 33/220 kV, 100 MVA transformer with associated GIS in the yard of 132/220 kV Charor Substation	08.03.2019	M/s Kanohar Electricals Limited	10.05.2023

2. As per the documents submitted by HPPTCL, the actual cost of the above element commissioned under GEC-I varies as compared to the Original Award cost. The details for the change in the cost as furnished by HPPTCL is as under:

S. No.	Package	Original Award Cost	Actual Award Cost	Reason for change in the project cost
1.	Additional 33/220 kV, 100 MVA transformer with associated GIS in the yard of 132/220 kV Charor Substation	Rs. 35.96 Cr.	Rs. 35.075 Cr.	Due to variation in the quantity of items during execution stage

3. The summary of the commissioned transmission elements is tabulated below:

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Sl. No.	Package Details	DPR Cost	Award Cost	Eligible funds (40% of A or B, whichever is lower)	Actual Project Cost	Eligible funds (as per actual project cost)	Funds already recomm ended by CEA	Balance Grant (as per actual project cost)
		A	B	C=B*40%	D	E=D*40%	F=C*70%	G=E-F
		(Rs. Cr)	(Rs. Cr)	(Rs. Cr)	(Rs. Cr)	(Rs. Cr)	(Rs. Cr)	(Rs. Cr)
1.	Additional 33/220 kV, 100 MVA transformer with associated GIS in the yard of 132/220 kV Charor Substation	39	35.96	14.38	35.075	14.03	10.06	3.97

4. In line with the Amended Guidelines for disbursal of Central Grant issued vide MNRE letter dated 30.05.2021 and 14.12.2021 for the development of Intra- State Transmission System under Green Energy Corridor Scheme, the following documents for examination of the proposal have been submitted by HPPTCL:

S. No.	Document to be submitted	Whether the document has been submitted by HPPTCL
1.	Work Completion Certificate/Report signed by officer of the rank of Director (Projects) or equivalent of STU	Submitted
2.	Certificate of synchronization of the commissioned elements signed by Head of concerned State Load Despatch Centre (SLDC)	Submitted
3.	Performance testing of the Project signed by Head of concerned State Load Despatch Centre (SLDC) showing the real time power flows on each of the commissioned elements for the last 3 months	Submitted*
4.	Utilisation Certificate and Audited Statements of expenditure signed by Managing Director and Director (Finance) of the STU with respect to previous releases as per GFR 2017, along with refund of the interest accrued on the grant	Submitted
5.	Undertaking duly signed by the Managing Director of the State Transmission Utility (STU) stating whether there is any deviation from the work which was awarded and for which 70% grant was given along with the detailed technical justification as per the guidelines	Submitted
6.	Additional information regarding RE capacities linked with GEC-1, commissioned RE capacity and schedule for commissioning of balance RE capacity.	Submitted

The real time power flows submitted by HPPTCL indicated minimal loading (of around **0.1 MW) on the commissioned 33/220 **kV, 100 MVA** transformer **at** Charor Substation. In this regard, **HPPTCL has conveyed that the small HEPs are under clearances/ construction***

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stage, therefore, the transformer has not yet undergone loading test due to the lack of available power flow at the 33 kV level. Upon commissioning of these small HEPs in the area, the power will be evacuated at 33 kV voltage level.

5. With respect to the Utilization certificate, it is mentioned that the details of fund released by MNRE is not available with CEA, therefore, no comments can be furnished with respect to the utilization of funds. All other documents furnished by HPPTCL are generally in order.

C. Based on the above, the balance grant works out to Rs. 3.97 Crore as given below:

Sl. No.	Package Details	Balance NCEF Grant	Remarks
1.	Additional 33/220 kV, 100 MVA transformer with associated GIS in the yard of 132/220 kV Charor Substation	Rs. 3.97 Crore	The transformer is not being utilized at present for evacuation of power from the planned small hydro projects which are still under clearance/ under construction. Therefore, PAC/MNRE may take a view regarding the release of balance NCEF grant.

-------X-------

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13.B.5

ANNEXURE-12

ANNEXURE-14A

KFW

Himachal Pradesh Power Transmission Corporation Ltd.
(HPPTCL)
Barowalias House
Khalini
Shimla - 171004
India

Himachal Pradesh State Electricity Board Ltd. (HPSEBL)
Kumar House Vidyut Bhawan
Shimla – 171004
India

Date:

KfW Development Bank

Oliver Jünger
Our ref.: jü
Phone: +49 69 7431-8308
Fax: +49 69 7431- 3809
E-mail: oliver.juenger@kfw.de

››› **German Financial Cooperation with India**
Green Energy Corridors
Intra State Transmission System in Himachal Pradesh
EUR 57.0 million
No.: 2013 66 483
Separate Agreement to the Project Agreement
dated 5.10.2015

Dear Sir or Madam,

In accordance with the Loan Agreement entered into between India ("Borrower") and KfW ("KfW") dated 5.10.2015 and the Project Agreement between the Government of Himachal Pradesh, Himachal Pradesh Power Transmission Corporation Ltd ("Project-Executing Agency") and KfW dated 5.10.2015 the following shall be determined by separate agreement:

Pursuant to Article 1.1 of the Project Agreement and Article 1.2 of the Loan Agreement:
the details of the Project as well as the goods and services to be financed from the Loan;

Pursuant to Article 3.1 of the Project Agreement and Article 2.4 of the Loan Agreement:
the disbursement procedure, in particular the evidence proving that the disbursed loan amounts are used for the stipulated purpose;

Pursuant to Article 5.1. b) of the Project Agreement:
the details of Reporting on staff development plan;

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Pursuant to Article 5.1 c) of the Project Agreement:
the details of International Competitive Bidding;

Pursuant to Article 5.2 of the Project Agreement and Article 6.3 of the Loan Agreement:
the details pertaining to Article 5.1, Project Agreement, and Article 6.2, Loan Agreement, respectively (Project Implementation);

Pursuant to Article 5.4 of the Project Agreement:
The details of the staff support of HPSEBL to the Project-Executing Agency.

We propose that the following be agreed upon:

I. Project Design

1. Details of the Project

The Project concerns the promotion of Renewable Energies in India. The purpose of the project is to facilitate the grid connection of production capacities of Renewable Energies. Further, to increase the stability of the grid and to improve the security of supply with electric energy. This is to contribute to a broad based ecologically sustainable and technically and economically efficient electricity supply. The criteria for reaching these objectives, the project results and the required project activities as well as the assumptions underlying the project purpose and the project results are contained in Annex 1.

The design of the Project is based on the documents, notably the Detailed Project Report, available to KfW and the Project Executing Agency, and on the Minutes of Meetings made between KfW and the Project-Executing Agency dated October 16, 2014 during the local Project appraisal mission of October 16-17, 2014.

The following Project activities shall be financed from the Loan:

- Construction of 66/220 kV, 80/100 MVA sub station in the yard of 132/220 kV Sunda sub station along with 66 kV D/C line from Sunda to Andhra
- Construction of 22/132 kV sub station in the yard of Tangnu Romai HEP
- Construction of 132 kV D/C line from 22/132 kV substation at Tangnu Romai HEP to 132/220 kV sub station at Sunda
- Construction of 132/220 kV, 2x100 MVA GIS sub station at Dehan in Distt. Kangra along with 220 kV D/C Transmission Line (55 kms) from Dehansub station to 400/220 kV sub station for PGCIL at Hamirpu
- Construction of 33/132 kV, 31.5 MVA sub station in the yard of Rupin HEP
- Construction of 132 kV D/C line between 33/132 kV sub station at Rupin HEP and 132/220 kV sub station at Sunda

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- Construction of 33/220 kV, 50/63 MVA sub station at Village Heling in Distt. Chamba by LILO of 220 kV D/C (Twin MOOSE) line between Bajoli Holi HEP and 400/220 kV sub station of HPPTCL planned at Lahal (ADB funded)
- Providing additional 132/220 kV, 100 MVA Transformer at 132/220 kV, 100 MVA GIS sub station at Charor
- Providing additional 33/132 kV, 31.5 MVA Transformer at 33/132 kV, 31.5 MVA GIS sub station at Pandoh in Distt. Mandi
- Construction of 33/132 kV, 2x31.5 MVA GIS sub station near Malana-II (100 MW) power house in Dist. Kullu
- Construction of 33/132 kV, 2x31.5 MVA GIS sub station Sarsadi by LILO of one circuit of 132 kV Barsaini-Charor D/C line in Dist. Kullu
- Providing additional 400/220 kV, 1x315 MVA transformer in the 400/220 kV sub station at Gumma [Pragatinagar] in Dist. Shimla.
- Construction of 33 kV GIS switching Station at Palchan in District Kullu

- Providing additional 10 MVA, 66/22 kV power transformer a/w spare bay at 10 MVA, 66/22 kV Nogli for evacuation of power from SHEPs in Andhra Nogli Zone
- Augmentation of Nogli-Samoli 66 kV line with AL59 conductor (30 km)
- Augmentation of 2nd 66/22 kV, 10 MVA transformer at Samoli to 20 MVA
- Construction of 66/22 kV, 2x10 MVA sub station at Hatkoti along with 66 kV S/C line on D/C towers (20 kms) from Hatkoti to Samoli
- Augmentation of 66 kV D/C line between Ghanvi-II to Kotla with HTLS conductor (8 kms)
- Construction of 66 kV S/C line from Nathpa to Wangtoo a/w terminal bays
- C/O 66/22 kV 2x25/31.5 MVA S/St at Andhra and 22kV Controlling Substation at Gumma
- Construction of 66/22 kV, 1x10 MVA sub station at yard of Rukti I
- 66 kV S/C line (6 km) on D/C towers from the Yard of Rukti I to yard of Shaung Power House.
- Augmentation of transformer from 2.5 MVA to 6.3 MVA and construction of 33 kV S/C line on D/C structures between Shillai and Sataun a/w terminal bays (20 Kms) and 33 kV S/C line between Sataun & Paonta
- 22kV S/C line on D/C structures and cross arms (0.15Sq. In "WOLF" cond.) between Hatkoti and Kotkhai a/w terminal bays and space for spare feeder bay

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- 22kV D/C line (0.15Sq. In "DOG" cond.) between Jhakri and Rampur i/c terminal bays
- 22kV S/C line on Double structures (0.15 Sq. In "DOG" cond.) between Rampur and Nogli i/c terminal bays
- 22KV D/C line ACSR 0.15Sq. In "WOLF" cond.) between Karcham (existing control point) and 22/66/220 kV Karcham P.S. a/w terminal bays and space for spare feeder bay
- Augmentation of 33 kV existing line between Dadahu and Dhaula Kuan & Dhaula Kuan and Giri with WOLF conductor
- 33 kV S/C line on D/C structures with WOLF conductor between Naggar & Bajaura i/c 2 Nos. bays (27 kms)
- LILO of 33 kV line from Naggar - Kullu up to 220/33 kV sub station at Phojal
- 33 kV line from Prini to 220/33 kV sub station in the yard of Allain Dhuangan HEP with 33 kV XLPE cable
- LILO of 33 kV Pandoh- Bijni line at proposed 33/132 KV Pandoh sub-station.
- Strengthening of 33 kV D/C Pandoh-Bijini line with WOLF conductor.
- Strengthening of 33 kV S/C Padhar to Bijini line with WOLF conductor.
- 33KV line with WOLF conductor between Gahor – Mandi

- C/O 33 kV S/C line with WOLF conductor from 33 kV sub station Jassore a/w terminal bay at Sihunta and Jassore
- Augmentation of existing 33 kV Gharola to LILO point at Karian with WOLF conductor of 33 kV line from Gharola to Chamba (48.5 kms)
- LILO of 33 kV Bharmour-Gharola line at Lahal
- Strengthening of 33 kV Baner to Gopalpur and 33 kV line from Gopalpur to Drang via Garhmata with WOLF conductor
- Strengthening of existing 33 kV line with WOLF conductor from Baner to Sidhpur and from 33/11 kV sub station Sidhpur to Kangra
- Strengthening / Up-gradation of existing S/C 33 kV feeder No.II from Baner Power House to 132/33/11 kV sub-station Dehan under ESD No.II Palampur
- LILO of one circuit of 33 kV D/C line from Shahpur to Kangra at proposed 33/132 kV CHAMBI sub-station and 33 kV D/C line from Shahpur to CHAMBI
- 33 kV S/C line from GAJ to KHAULI with 2 Nos terminal bays
- 33 kV D/C line with WOLF conductor from Salooni to Koti i/c terminal bays

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- LILO of 33 kV S/C line between Chamba and Jarangla at 33/132/220 kV proposed sub-station at Karian t a/w terminal bays and augmentation of existing conductor with WOLF conductor .
- 33 kV Pooling point at Maredi a/w 33 KV D/C line with WOLF cond up to k33/220 KV S/Stn. at Karian a/w terminal bays

- Implementation Consultant

2. **Time Schedule**

The underlying time schedule for the preparation, implementation and operation of the Project is contained in Annex 2.

3. **Total Cost and Financing**

The estimated total project cost ("Total Cost") underlying the project appraisal is approximately EUR 135.04 million (equivalent to 945.28 INR Cr.). The Loan amount is EUR 57.0 million. The composition of Total Cost and the financing plan are contained in Annex 3.

4. **Changes in the Project Design**

Any major changes in the project design shall require KfW's prior consent. The Project-Executing Agency shall inform KfW thereof immediately, stating the reasons, the planned measures and the consequences of the change (including Total Cost). Execution of such measures may commence only on the basis of revised planning and upon KfW's consent.

II. **Project Implementation**

1. **Responsibilities and Time, Cost and Financing Schedule**

1 1 The Project-Executing Agency shall be responsible for the implementation of the Project. In view of the presently limited staff strength of the Project-Executing Agency, Himachal Pradesh State Electricity Board Ltd. (HPSEBL) under an ongoing cooperation shall second a sufficient number of adequately qualified staff to the Project-Executing Agency in support of Project implementation. Some subprojects may be tendered out by HPSEBL with HPPTCL assuming the full responsibility. This cooperation shall continue until the time the Project-Executing Agency has reached its full staff strength.

The Project-Executing Agency shall use its existing Project Implementation Units established already under an ongoing transmission project financed by Asian Development Bank (ADB) each headed by a responsible Project Officer to coordinate all Project activities. The Project Officer shall be empowered to take day-to-day decisions. As the construction sites are partly situated far apart from each other, the Project-Executing Agency shall deputize Site Officers with far-reaching decision competence. Should capacity constraints be encountered, then the Project-Executing

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Agency shall, with support from HPSEBL, increase the staff strength of the units implementing the Project.

With a view at bringing up its technical staff strength to the level required to implement and operate the Project fully and independently, the Project-Executing Agency shall elaborate until December 2015 a staff development plan, which shall be approved by KfW, and implement it through December 2017. The Project-Executing Agency shall report on progress of implementation in the regular reports (Annex 7).

1.2 The detailed time, cost, and financing schedule, regularly updated for the proper technical and financial implementation of the Project, shall be prepared as soon as possible by the Project-Executing Agency and submitted to KfW. Such schedule is to show, by deadlines and amounts, the intended chronological interrelation of the Project activities and the resulting financial requirements. If any deviation from such schedule becomes necessary during the implementation of the Project, KfW shall be furnished with a revised schedule.

2. **Implementation Consultant**

2.1a The issue regarding implementation of the KfW Project was discussed in detail during the meeting held on dated 16-17 October 2014 & 23-24 February 2015. After long discussions and deliberations, it was mutually agreed by KfW & the PEA to go for an Implementation Consultant in view of the fact that HPPTCL is not having any independent and sufficient staff of its own like the other Transmission companies in India. KfW also felt that without an Implementation Consultant, it will be difficult to finance the Project. So in the interest of the successful implementation of the Project, it was mutually agreed to have an implementation consultant.

2.1b The duties of the implementation consultant shall comprise:

- Carrying out all activities such as bid document preparation till award of the work along with the engineering staff of HPPTCL;
- Monitoring of Tendering process;
- Evaluation of bids, preparation of evaluation report and award recommendation;
- Support in the contract negotiations, if required, and assist in preparation of negotiation report etc;
- Design audit and approval of Contractor's submissions;
- Advising PEA on technical issues at site as well as regarding design;
- Participation in factory acceptance tests;
- Site supervision and control of the project during the implementation phase with respect to meeting deadlines, cost and quality control for the Works contract (including training of the operating personnel);

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- Preparation of regular progress reports showing the monthly or quarterly progress and to suggest measures for any improvement;
- Encountered bottlenecks or problems and steps to be taken or initiated through the parties concerned (Contractor, PEA, or Consultant);
- Examine invoices (control, validation and approval) submitted by Contractors on the basis of the supply and service contracts and then prepare a corresponding payment certificate to facilitate payment from KfW as well as report regularly about all existing guarantees and request updates in due time, if required;
- Participation in commissioning and site tests and suggest measures as per site requirement;
- Support to PEA for the assessment of any special claim/event;
- Support to PEA during the "Defect Liability Period" regarding remedy works by the Contractor.
- The implementation consultant will provide sufficient, competent and qualified personnel at different stages of the KfW Projects and will be associated with the Project till its completion.
- The strength of staff to be posted at different stages of Project will be mutually decided by the consultant and PEA as per the Terms of Reference for the Implementation Consultant.

2.2 Following pre-selection and international public competitive bidding, the contract shall be awarded to an independent qualified consultant. The tendering, awarding and contracting process will be done by the Project-Executing Agency on the basis of the "Guidelines for the Assignment of Consultants in Financial Cooperation with Partner Countries" (Annex 4), which forms an integral part hereof.

2.3 The implementation consultant will be paid out of the loan.

2.4 In the pre-qualification notice or - if no pre-qualification is conducted - in the invitation for tenders, the Borrower shall obligate the bidders to submit together with the bidding documents or together with the bid a properly executed declaration of undertaking (Annex 4, page 16).

2.5 KfW shall assist the Project-Executing Agency in the selection of the consultant and the award of the contract and during the rendering of the consulting services.

2.5.1 The Project-Executing Agency hereby authorizes KfW to conclude the Consulting Contract on behalf of the Project-Executing Agency. The cost of the tender agent's services will be borne by a special fund provided for such purposes by the German Federal Ministry for Economic Cooperation and Development. Following the conclusion, KfW will furnish the Project-Executing Agency with an original of the Consulting Contract.

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