



H.P. POWER TRANSMISSION CORPORATION LIMITED

(A State Government Undertaking)

BAROWALIAS HOUSE, KHALINI, SHIMLA-171002

Ph:-0177-2626272, FAX:-2626284, 2620227

No: HPPTCL/ ADB / 220 kV D/C Charor- Banala / 2014-15 - 6954-61 Dated: 22-1-2015
To

M/S R. S. Infraprojects Pvt. Ltd.,
B-133, Sector-2,
Noida- 201301 (UP).
Fax: 0120-4779801.

Subject: Notification of Award for Services & Civil Works (Second Contract) against Tender No. 12-TL/ADB/HPPTCL/220kV D/C Transmission Line for "Construction of 220 kV D/C Transmission Line on Towers from 132 / 220 kV Pooling Sub Station at Charor to 220 / 400 kV PGCIL Pooling Station at Banala in Kullu District of Himachal Pradesh on Turnkey Basis (Complete Package)".

- Reference: 1) Your offer No. RSPIL/ HPPTCL/ 14-15/ IFB No. 12- TL-ADB-220 kV TL / 001 Dated 21/04/2014.
- 2) Our letter No.: HPPTCL/Contracts/ADB/ Charor- Banala / 2014-15- 1284 Dated 10/06/2014.
- 3) Your letter No. RSPIL/ HPPTCL/12- TL/ 14-15/ 92 Dated 12/06/2014.
- 4) Our letter No. HPPTCL/Contracts/ADB/ Charor- Banala / 2014-15-1450-51 Dated 21/06/2014.
- 5) Your letter No. RSPIL/ HPPTCL/12- TL/ 14-15/ 06/ 025 Dated 24/06/2014.
- 6) Our letter No. HPPTCL/Contracts/ADB/ Charor- Banala / 2014-15-1708-09 Dated 30/06/2014.
- 7) Your letter No. RSPIL/ HPPTCL/12- TL/ 14-15/ 07/ 001 Dated 01/01/2014.
- 8) Our letter No. HPPTCL/Contracts/ADB/ Charor- Banala / 2014-15- 4886 Dated 01/11/2014.
- 9) Your letter No. RSPIL/ HPPTCL/12- TL/ 14-15/ 11/ 003 Dated 03/11/2014.

Dear Sirs,

This is to notify you that your Bid No RSPIL/ HPPTCL/ 14-15/ IFB No. 12- TL- ADB-220 kV TL / 001 dated 21/04/2014, consisting of the Techno- Commercial and Price Bids for execution of the Project of "Construction of 220 kV D/C Transmission Line on Towers from 132 / 220 kV Pooling Sub Station at **Charor** to 220 / 400 kV PGCIL Pooling

Station at **Banala** in Kullu District of Himachal Pradesh on Turnkey Basis (Complete Package)" against Tender No. **12-TL/ADB/HPPTCL/220kV D/C Transmission Line** for the Services and Civil works Contract (Also referred as "Second Contract") for the Contract Price in the aggregate of **INR 18,90,96,802 (Rupees Eighteen Crores Ninety Lacs Ninety Six Thousand Eight Hundred And Two)** only, 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 this Letter of Acceptance, inter-alia, includes the following:-

- i) Inland Transportation, Insurance, taking Delivery and Storage of all material / equipment covered under First Contract.
- ii) Detailed Survey including Route alignment, Profiling, Tower Spotting, Optimization of Tower Location, Soil Resistivity Measurement and Geo-Technical Investigation including Special Foundation Location, Check Survey, casting of Foundation for Tower Footing
- iii) Erection of Towers, Tack Welding of Nuts and Bolts, Application of Zinc Rich Primer and Two coats of Enamel Paint, Tower Earthing, Fixing of Insulator Strings, Stringing of Conductor and OPGW alongwith all necessary Line accessories and Painting of Towers for Aviation Requirements
- iv) Testing and Commissioning of Transmission Line.

Any other item, not specifically mentioned, but are required for successful commissioning of the Transmission Line shall be executed by the contractor without additional cost.

The List of Scope of Work to be executed by you is as per APPENDIX-1.

The prices mentioned in the attached **APPENDIX-1, Annexure-1** and **Annexure-2** are FIXED.

The prices indicated in **APPENDIX-1, Annexure-1** and **Annexure-2** are inclusive of taxes and duties.

The payment in respect of items for which unit rates have been mentioned shall be made on the basis of actual measurement whereas for items with LS rates, the prices are fixed.

You are requested to furnish the Performance Security @10% of the Contract Price within 28 days in accordance with the Conditions of Contract. For that purpose, the Performance Security Form is included in Section - 9 (Contract Forms) of the Bidding Document.

Two separate Notifications, one for supplies (First Contract) and the other for services (Second Contract) are being issued as per your request. These are inter-related and are on single source responsibility on turn-key basis. Any Breach



under the "First" Contract i.e "Contract for Supplies" shall be deemed as breach of this Contract and any such breach or occurrence shall entitle HPPTCL the right to terminate this Contract and/or recover damages under the Contract as well. However, such breach or occurrence in the "First Contract" shall not automatically relieve you of any of your obligations under this contract. It should be expressly understood and agreed by you that the Equipment/Materials supplied under the "First Contract", when erected, tested and commissioned under this "Second Contract" shall give satisfactory performance in accordance with the Bidding Document.

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

Attachment: (1) **APPENDIX-1**
(2) **Annexure - 1**
(3) **Annexure – 2**

Yours Faithfully,



Dy. General Manager (Contracts)

CC: alongwith enclosures for information and necessary action to:-

1. Director (Planning & Contracts), HPPTCL, Shimla.
2. Director (Projects), HPPTCL, Shimla.
3. General Manager (Projects), HPPTCL, Shimla.
4. Dy. General Manager & Head, Transmission Design, HPPTCL, Anu, Hamirpur.
5. Dy. General Manager (Projects), HPPTCL, Shimla.
6. Dy. General Manager (Finance), HPPTCL, Shimla.
7. Sr. Manager, Transmission Division, HPPTCL, Sarabai, Distt. Kullu (H.P.).

Tender No.: 12-TL/ADB/HPPTCL/220 kV D/C Transmission Line (Charor - Banala)

MAIN ABSTRACT OF COST

Sr. No.	Title	Amount (INR)	Remarks
1	Design Services	20,00,000	As per Annexure-I
2	INSTALLATION AND OTHER SERVICES (Insluding Local Transportation, Insurance Charges, other Incidental to Delivery and Type Test Charges)	18,70,96,802	As per Annexure-II
TOTAL AMOUNT:		18,90,96,802	

(INR EIGHTEEN CRORE NINETY LACS NINETY SIX THOUSAND EIGHT HUNDRED AND TWO)

NOTES:-

- 1 The prices mentioned above are on FIRM Basis and are inclusive of Taxes and Duties.


Dy. General Manager (Contracts)

Tender No. 12-TL/ADB/HPPTCL/220 kV D/C Transmission Line (Charor - Banala)

DESIGN SERVICES

Sr. No.	Description	Qty.	Unit Price (Rs.)	Total Price (Rs.)
1	2	3	4	5= 3 x 4
1	Design, of Special Structures / Towers Type 'Spl'	1	20,00,000	20,00,000
			TOTAL:	20,00,000

(INR Twenty Lacs)**Note:-**

- 1 The prices mentioned above are inclusive of Taxes and Duties.



Dy. General Manager (Contracts)

Tender No. 12-TL/ADB/HPPTCL/220 kV D/C Transmission Line (Charor - Banala)

INSTALLATION AND OTHER SERVICES

(Including Local Transportation, Insurance Charges, other Incidental to Delivery Charges)

Item	Description	Unit	Qty.	Unit Price	Total Price
				(INR)	(INR)
1	2		3	4	5 = 3 x 4
1	SURVEY WORK				
	Check Survey including Pegging of Tower Centres, Route Marking, Profile Plotting, Tower Spotting etc	Km	17.6	37180	654368
2	SOIL INVESTIGATION				
	Detailed Soil Investigation for all Tower Locations	Nos	64	18928	1211392
3	Tower Testing Charges for Special Tower with 12.0 Mtr. Full body and 9.0 metres Leg extension up to destruction tests including cost of materials after allowing rebate for scrap value of steel of destroyed tower	Nos	1	2957500	2957500
4	BENCHING WORK				
	Benching of Tower Footings in all kind of Soil	Cu.m	22,000	592	13024000
5	FOUNDATION WORK				
a)	STUB SETTING INCLUDING FORMWORK				
	Tower Type 'BB' (0 degree to 15 degrees)	Nos	16	7605	121680
	Tower Type 'CC' (0 degree to 30 degrees)	Nos	12	8450	101400
	Tower Type 'DD' (0 degree to 60 degrees)	Nos	18	10140	182520
	Special Tower Type 'Spl'	Nos	16	16900	270400
	Line Gantries	Nos	2	7605	15210
b)	EXCAVATION IN TOWER FOUNDATION				
	TOWER TYPE 'BB' (0 degree to 15 degrees)	Nos.	16		
i)	Normal Soil-3 NOS	Cu.m	408.06	267	108952
ii)	Wet Soil-1 NOS	Cu.m	303.83	267	81123
iii)	Non Cohesive Soil- 6 NOS	Cu.m	1,643.52	338	555510
iv)	Soft / Fissured Rock-5 NOS.	Cu.m	938.85	845	793328
v)	Hard Rock-1 NOS	Cu.m	7.84	1268	9941
	TOWER TYPE 'CC' (0 degree to 30 degrees)	Nos.	12		
i)	Normal Soil-3 NOS	Cu.m	618.60	267	165166
ii)	Wet Soil-0 NOS	Cu.m	0.00	267	0
iii)	Non Cohesive Soil- 3 NOS	Cu.m	1,150.02	338	388707
iv)	Soft / Fissured Rock-5 NOS.	Cu.m	1,356.40	845	1146158
v)	Hard Rock-1 NOS	Cu.m	10.246	1268	12992
	TOWER TYPE 'DD' (0 degree to 60 degrees)	Nos.	18		
i)	Normal Soil-4 NOS	Cu.m	1334.44	267	356295
ii)	Wet Soil-1 NOS	Cu.m	635.69	267	169729
iii)	Non Cohesive Soil- 7 NOS	Cu.m	3500.07	338	1183024
iv)	Soft / Fissured Rock-5 NOS.	Cu.m	2,069	845	1747967
v)	Hard Rock-1 NOS	Cu.m	433.693	1268	549923
	SPECIAL TOWER TYPE 'Spl'	Nos.	16		

Item	Description	Unit	Qty.	Unit Price	Total Price
				(INR)	(INR)
1	2		3	4	5 = 3 x 4
i)	Normal Soil-4 NOS	Cu.m	1,601.33	267	427555
ii)	Wet Soil-0 NOS	Cu.m	0.00	267	0
iii)	Non Cohesive Soil- 6 NOS	Cu.m	3,600.07	338	1216824
iv)	Soft / Fissured Rock-5 NOS.	Cu.m	2,482.32	845	2097560
v)	Hard Rock-1 NOS	Cu.m	520.43	1268	659908
	LINE GANTRIES	Nos.	2		
i)	Soft / Fissured Rock-2 NOS.	Cu.m	400.00	845	338000
c)	REINFORCEMENT AND CONCRETING IN TOWER FOUNDATION				
	TOWER TYPE 'BB' (0 degree to 15 degrees)	Nos.	16		
i)	Normal Soil	Nos.	3		
	Reinforcement	MT	6.25	66924	418409
	Concreting M10	Cu.m	17.79	12937	230149
	Concreting M20	Cu.m	75.00	14371	1077825
ii)	Wet Soil	Nos.	1		
	Reinforcement	MT	3.46	66924	231557
	Concreting M10	Cu.m	9.80	12937	126783
	Concreting M20	Cu.m	38.65	14371	555439
iii)	Non Cohesive Soil	Nos.	6		
	Reinforcement	MT	18.55	66924	1241574
	Concreting M10	Cu.m	53.04	12937	686178
	Concreting M20	Cu.m	207.36	14371	2979971
iv)	Soft / Fissured Rock	Nos.	5		
	Reinforcement	MT	14.10	66924	943294
	Concreting M10	Cu.m	39.25	12937	507777
	Concreting M20	Cu.m	156.50	14371	2249062
v)	Hard Rock	Nos.	1		
	Reinforcement	MT	0.345	66924	23116
	Concreting M10	Cu.m	0.000	12937	0
	Concreting M20	Cu.m	8.281	14371	119006
	TOWER TYPE 'CC' (0 degree to 30 degrees)	Nos.	12		
i)	Normal Soil	Nos.	3		
	Reinforcement	MT	9.267	66924	620185
	Concreting M10	Cu.m	26.520	12937	343089
	Concreting M20	Cu.m	119.940	14371	1723658
ii)	Wet Soil	Nos.			
	Reinforcement	MT	0.00	66924	0
	Concreting M10	Cu.m	0.00	12937	0
	Concreting M20	Cu.m	0.00	14371	0
iii)	Non Cohesive Soil	Nos.	3		
	Reinforcement	MT	14.340	66924	959690
	Concreting M10	Cu.m	37.110	12937	480092
	Concreting M20	Cu.m	159.780	14371	2296198
iv)	Soft / Fissured Rock	Nos.	5		
	Reinforcement	MT	20.97	66924	1403396
	Concreting M10	Cu.m	56.2	12937	727059
	Concreting M20	Cu.m	244.95	14371	3520176
v)	Hard Rock	Nos.	1		
	Reinforcement	MT	0.4140	66924	27707

Item	Description	Unit	Qty.	Unit Price	Total Price
				(INR)	(INR)
1	2		3	4	5 = 3 x 4
	Concreting M10	Cu.m	0.0000	12937	0
	Concreting M20	Cu.m	10.8160	14371	155437
	TOWERTYPE 'DD' (0 degree to 60 degrees)	Nos.	18		
i)	Normal Soil	Nos.	4		
	Reinforcement	MT	27.340	66924	1829702
	Concreting M10	Cu.m	54.000	12937	698598
	Concreting M20	Cu.m	232.160	14371	3336371
ii)	Wet Soil	Nos.	1		
	Reinforcement	MT	12.22	66924	817677
	Concreting M10	Cu.m	20.51	12937	265338
	Concreting M20	Cu.m	84.74	14371	1217799
iii)	Non Cohesive Soil	Nos.	7		
	Reinforcement	MT	69.88	66924	4676716
	Concreting M10	Cu.m	124.18	12937	1606517
	Concreting M20	Cu.m	519.19	14371	7461279
iv)	Soft / Fissured Rock	Nos.	5		
	Reinforcement	MT	47.45	66924	3175209
	Concreting M10	Cu.m	81.90	12937	1059540
	Concreting M20	Cu.m	304.95	14371	4382436
v)	Hard Rock	Nos.	1		
	Reinforcement	MT	8.886	66924	594653
	Concreting M10	Cu.m	0.000	12937	0
	Concreting M20	Cu.m	75.452	14371	1084321
	SPECIAL TOWER TYPE 'Spl'	Nos.	16		
i)	Normal Soil	Nos.	4		
	Reinforcement	MT	32.81	66924	2195643
	Concreting M10	Cu.m	64.80	12937	838318
	Concreting M20	Cu.m	278.59	14371	4003646
ii)	Wet Soil	Nos.			
	Reinforcement	MT	0.00	66924	0
	Concreting M10	Cu.m	0.00	12937	0
	Concreting M20	Cu.m	0.00	14371	0
iii)	Non Cohesive Soil	Nos.	6		
	Reinforcement	MT	83.8572	66924	5612059
	Concreting M10	Cu.m	149.016	12937	1927820
	Concreting M20	Cu.m	623.028	14371	8953535
iv)	Soft / Fissured Rock	Nos.	5		
	Reinforcement	MT	56.93	66924	3810251
	Concreting M10	Cu.m	98.28	12937	1271448
	Concreting M20	Cu.m	365.94	14371	5258924
v)	Hard Rock	Nos.	1		
	Reinforcement	MT	10.663	66924	713584
	Concreting M10	Cu.m	0.000	12937	0
	Concreting M20	Cu.m	90.545	14371	1301228
	Line Gantry				
l)	Soft / Fissured Rock	Nos.	2		
	Reinforcement	MT	7.000	66924	468468
	Concreting M10	Cu.m	20.000	12937	258740
	Concreting M20	Cu.m	80.000	14371	1149680

Item	Description	Unit	Qty.	Unit Price	Total Price
				(INR)	(INR)
1	2		3	4	5 = 3 x 4
d)	DEWATERING OF PITS DURING CONCRETING				
i)	Manual (Men Days)	MD	100	325	32500
ii)	Mechanical Pump	Hrs	70	127	8890
iii)	Power Driven Pump	Hrs	70	338	23660
6	ERECTION WORK				
a)	Erection of all Types of Towers (Special Tower, Super Structures alongwith Full Body Extension, Leg Extension of all Towers) with Bolts and Nuts including Tack Welding, complete in all respects	Nos.	64		
		MT	1,580	8704	13752320
b)	Installation of Earthing of Towers				
i)	Pipe Earthing	Nos.	64	3803	243392
ii)	15 metres Counterpoise Type Earthing complete with Excavation and Backfilling Work	Nos.	5	7098	35490
iii)	30 metres Counterpoise Type Earthing complete with Excavation and Backfilling Work	Nos.	10	12675	126750
c)	Installation of following Tower Accessories				
i)	Danger Plate	Nos	64	211	13504
ii)	Number Plate	Nos	64	211	13504
iii)	Phase Plate (Set of Three)	Nos	128	211	27008
iv)	Circuit Plate (Set of Two)	Nos	64	211	13504
v)	Anticlimbing Device	Nos	64	2958	189312
vi)	Bird Guard (Set of Three)	Nos	0	1268	0
7	REVETMENT WORK				
i)	Excavation for Foundations in all kind of Soil / Rock	Cu.m	1,000	676	676000
ii)	Lean Concrete M10	Cu.m	360	12937	4657320
iii)	RCC & Coping with M15 Concrete	Cu.m	640	13520	8652800
iv)	Rubble Masonary Work including Cement Mortar (1:5) Work complete	Cu.m	3,000	5915	17745000
v)	CC 1:4:8	Cu.m	40	12937	517480
vi)	Steel of Reinforcement	MT	50	66924	3346200
vii)	Excavation and Transportation of Soil from suitable Place for Backfilling, Levelling of the Volume enclosed with Revetment Walls	Cu.m	500	676	338000
viii)	Providing Stone Packings at Weep Holes	Cu.m	200	1690	338000
8	STRINGING WORK				
a)	Installation of Insulator Strings complete with Arcing Horns and necessary Hardware, Installing and Stringing bundle (Twin 'Moose" ACSR) Conductor including fixing of Conductor Accessories complete in all respects for Double Circuit Towers.	Km	17.6	568263	10001429
b)	Installation and Stringing of OPGW complete with necessary Hardware, Tensioning, Stringing, Sagging and Clamping of OPGW including fixing of OPGW Accessories complete in all respects	Km	17.6	101400	1784640
9	INSTALLATION OF AVIATION REQUIREMENTS				
	Coloured Globules on OPGW of 50 cm diameter	Nos	30	1335	40050

Item	Description	Unit	Qty.	Unit Price	Total Price
				(INR)	(INR)
1	2		3	4	5 = 3 x 4
10	PAINTING OF TOWERS				
	Painting of Towers (including Paint) having Height more than 45 metres or wherever required with ORANGE and WHITE Strips (Minimum 3 Bands)	Nos	14	4225	59150
11	TESTING AND COMMISSIONING	Km	17.6	16900	297440
TOTAL :					18,70,96,802

(Rupees Eighteen Crores Seventy Lacs Ninety Six Thousand Eight Hundred And Two)

Note:-

- Quantities mentioned above are Tentative and Actual Quantities shall be worked out after Check Survey to be carried out by the Contractor ,detailed Engineering and Finalisation of Tower Location Chart.
- Payment shall be made as per Approved Bill of Material / Actual Quantities measured at Site.
- The prices mentioned above are inclusive of Taxes and Duties.


Dy. General Manager (Contracts)