



H.P. POWER TRANSMISSION CORPORATION LIMITED

(A State Government Undertaking)

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No. HPPPTCL/33/220 KV Phojal/L & T/Vol-XIV/2015 - **2840-47** Dated: **13/08/2015**

To

M/s LARSON & TOUBRO LIMITED,
Engineering Construction & Contract Division,
Mount Poonamallee Road Manapakkam,
P.B.No. 979, Chennai-6000089
FAX No. 044-22493317, 225236345

Subject: - Award No. HPPTCL /DGMC/L&T- Erection /2010-5099-5104 dated 23.12.2010, amended Vide No. HPPTCL /DGMC/L&T-**Erection** /2013-6862-68 dated 08.03.2013 **(Second Contract)** and Tender Specification No. DGMC/PALCHAN SUB-STATION/2/2009.-
Amendment No. 2 thereof.

Reference:- Your letter No. LTCD/PT&D/Phojal / 15- 10 dated 4th March, 2015.

Dear Sirs,

With reference to above, following amendments in the erection items of subject cited award are hereby made:-

Additional Civil Items:

Sl No	Description of Item	UNIT	As per Award			To be read as		
			Qty	Rate (Rs)	Amount (Rs)	Qty	Rate (Rs)	Amount (Rs)
1	Cost for 12 mtr. Deep 200 mm Dia Bore hole with 175 mm casing using odex Method for treated earth pit for 40 mm GI Pipes and MS Rod in Nos. i/c of all taxes	Nos.				19	68,348	12,98,612
2	RCC Road							
	a) 5 mtr. Wide RCC Road	R M				46.1	12,700	5,85,470
	b) 2 mtr. Wide RCC	R M				14	5,080	71,120

	Road								
	Sub Total RCC Road								6,56,590
3	20 Cum Water Tank								
	i) Excavation	Cum				63.248	525		33,205
	ii) PCC 1:3:6	Cum				1.58	4604		7,274
	iii) RCC M25	Cum				20.938	7147		1,49,644
	iv) Reinforcement	kG				1960.36	64.011		1,25,485
	Sub Total Water Tank								3,15,608
	Sub Total Civil Work								22,70,810

Erection – Substituted Items

S. No.	Name of Existing /BOQ Items	As Per Award				To be read as				
		Unit	Qty.	Rate (Rs)	Amount (Rs)	Name of Proposed Items	Unit	Qty.	Rate (Rs)	Amount (Rs)
(A)	M. Illumination System (Lighting Fixtures)									
1	3.0 a) 2X36W, Fluorescent Lamp in industrial reflector type fixture suitable for surface/pendant mounting	Nos	37	1840	68080	2X28W, T5 type industrial trough type fluorescent fixture with electronic ballast (Bajaj BTIV 228) with Lamp	Nos	60	1840	110400
2	(New)	Nos	0		0	2X28W, T5 type fluorescent fixture corrosion proof fitted with electronic ballast (Bajaj BTIV 228) with Lamp	Nos	9	1840	16560
3	(New)	Nos	0		0	2X28W, T5 mirror optics type fixture (Bajaj BTIV 128) with Lamp	Nos	34	1840	62560

4	(New)	Nos	0		0	1X28W, T5 type industrial trough type fluorescent fixture with electronic ballast (Bajaj BTIV 128) with Lamp	Nos	5	2073	10365
5	5 (a) Flood Light luminare 2X400W HPSV with lamp	Nos	4	5183	20732	Flood light fixture with 2X400W HPSV-T Lamp & control gear (Bajaj BJENF 24) with Lamp	Nos	6	5183	31098
6	(New)	Nos	0		0	Flood light fixture with 1X400W HPSV-T Lamp & control gear (Bajaj BJENF 14) with Lamp	Nos	3	3628	10884
7	7. 1X70W HPSV, 240V AC industrial wall glass fixture for pendant mounting with control gear box	Nos	2	2073	4146	1X70W HPSV 240AC industrial type fixture suitable for wall mounting with control gear (Bajaj BGEMF 17) with Lamp	Nos	12	2073	24876
8	4.0 a) 1X250W industrial metal halide luminare	Nos	14	2073	29022	1X250W Industrial type metal halide luminaries (Bajaj BJHBBIS 250 MH) with Lamp	Nos	6	2073	12438
9	(New)	Nos	0		0	10/20W CFL Fitting suitable for 220V DC source	Nos	18	1451	26118
Sub-Total (a)					1,21,980					3,05,299

(B)	S) Clamps & Connectors-220KV									
1	Terminal connector on 26.66/33.33 MVA Transformer SF6 to oil Bushing to suit GIS bus duct	No.	4	3047	12188	Expansion type terminal connectors to suit 3" IPS aluminium tube on transformer bushing (HA)	No.	4	3047	12188
2	Terminal connector on 245KV CVT to suit 1 or 2X moose/ Zebra ACSR	No.	6	1536	9216	Terminal Connector to suit single Zebra ACSR on CVT (HA)	No.	6	1536	9216
3	Terminal connector on wave trap to suit 1 or 2X Moose/Zebra ACSR	No.	8	1359	10872	Terminal Connector to suit single Zebra ACSR on SF6 air bushing (HA/VA)	No.	6	1359	8154
4	Tee connector to suit 1 or 2X Moose/Zebra ACSR	No.	12	1846	22152	Tee connector to suit single Zebra ACSR to single Zebra ACSR	No.	12	1846	22152
5	Terminal connector to suit 1 or 2X Moose/Zebra ACSR (New Item)	-	0		0	PG Clamp to suit single Zebra ACSR to single Zebra ACSR	No.	4	1359	5436
6	Terminal connector on wave trap to suit 1 or 2X Moose/Zebra ACSR	-	0		0	Rigid type terminal connector to suit 3" IPS aluminium tube on SF6 air bushing (HA)	No.	4	1359	5436
	Sub-Totals (b)				54,428					62,582
(C)	S) Clamps & Connectors - 33KV									
1	Terminal connector 30kV lightning arrester to suit 1 or 2X Moose/W	No.	18	1079	19422	Terminal connector to suit twin Panther ACSR on isolator (HA)	No.	12	1079	12948



	Wolf ACSR									
2	Terminal connector 30kV lightning arrester to suit 1 or 2XMoose/Wolf ACSR	-	0		0	Terminal connector to suit single Wolf ACSR on isolator (HA)	No.	24	1079	25896
3	Terminal connector on cable sealing end to suit 2XMoose ACSR	No.	4	905	3620	Tee connector to suit twin Panther ACSR to twin Panther ACSR	No.	6	905	5430
4	Terminal connector on cable sealing end to suit 2XMoose ACSR	-	0		0	Tee connector to suit twin Panther ACSR to single Panther ACSR	No.	6	905	5430
5	Terminal connector on cable sealing end to suit 2XMoose ACSR	-	0		0	Tee connector to suit Wolf ACSR to Wolf ACSR	No.	24	905	21720
6	Terminal connector on cable sealing end to suit 2XMoose ACSR	-	0		0	Terminal connector to suit single Panther ACSR on cable termination kit	No.	12	905	10860
7	Terminal connector to suit 1CX630 sq.mm XLPE cable sealing end	No.	6	1536	9216	Terminal connector to suit single Wolf ACSR on cable termination kit	No.	12	1536	18432
	Sub-Totals (c)				32,258					1,00,716
D	Total (a) + (b) +(c)				2,08,666					4,68,597

Erection New items (Not provided in the awarded BOQ):

E	Neutral Formation	Unit	As per Award			To be read as		
			Qty.	Rate	Amount	Qty.	Rate	Amount
	Power Clamps & Connectors							
a)	220 kV Inter Connector to suit 4" IPS AL Tube on Main way, 2xMoose ACSR on Branch Way	Nos.				2	825	1650
b)	Terminal Connector on 33kV Neutral Bushing of Transformer to suit 4" IPS AL Tube (Rigid type)	Nos.				3	825	2475
c)	Terminal Connector on 33kV BPI to Suit 4" IPS AL Tube(Rigid/Slide Type)	Nos.				5	825	4125
d)	Terminal Connector on 4" IPS AL Tube to Suit 2 No. 33kV Cable Terminations	Nos.				4	825	3300
e)	Terminal Connector on 4" IPS AL Tube to Suit 1 No. 33kV Cable Termination	Nos.				2	825	1650
f)	Terminal Connector on 33kV Horizontal Mounted BPI to suit 75x12mm GS Flat.	Nos.				4	825	3300
g)	Pad Type Compression Clamp to suit 2xMoose ACSR & 75x12mm GS Flat	Nos.				2	825	1650
h)	Pad Type Compression Clamp to suit 2xMoose ACSR & 4" IPS AL Tube	Nos.				2	825	1650
i)	Corona bell to Suit 4" IPS AL Tube	Nos.				7	500	3500
j)	Rigid Spacer to Suit 2xMoose ACSR Conductor with 250mm sub conductor spacing	Nos.				5	600	3000
k)	Tee Connector To Suit 2 x Moose ACSRConductor in all ways	Nos.				2	825	1650

	Termination Kit							
l)	33kV Outdoor Cable Termination Kit to suit 1Cx1000sqmm Cu XLPE Cable	Nos.				10	5500	55000
m)	33kV Indoor Cable Termination Kit to suit 1Cx1000sqmm Cu XLPE Cable	Nos.				6	5000	30000
	1Cx1000sq.mm CU Cable							
n)	33kV, 1cx1000 Sq.mm XLPE cu Cable	Mtr				210	125	26250
	Hardware Fittings							
o)	33kV Single Tension hardware for Twin Moose ACSR	Nos				2	3500	7000
	IPS Aluminium Tube:							
p)	5500mm Long 4" IPS Tube	Nos				3	2750	8250
q)	2000mm Long 4" IPS Tube	Nos				2	2750	5500
	Pole Structure							
r)	150NB Pole structure(as per drawing) with bolts	Nos				5	15792	78960
	Insulator							
s)	33 kV BPI	Nos				9	500	4500
t)	ACSR Moose Conductor	mtr				10	50	500
	Sub Total E				0			2,43,910
F	SF6 / Air Bushing	Nos				4	61500	246000
	Sub Total F				0			2,46,000
	Total Electrical Erection (D,E & F)				2,08,666			9,58,507

Abstract of Cost:

Sr. No.	Description	As per Award (Rs)	To be read as (Rs.)
1	Total Civil Works	0	22,70,810
2	Total Electrical Erection	2,08,666	9,58,507
	G. Total	2,08,666	32,29,317
	Extra Cost on a/c of Additional / Substituted items in addition to awarded amount = Rs. (32,29,317-2,08,666)	Rs. 30,20,651	
	Thirty Lacs Twenty Thousand Six Hundred Fifty One only		



All other Terms and Conditions of the above Award shall remain unchanged.

Yours faithfully,


Dy. General Manager (Contracts)

Copy of the above is forwarded to the following for information please.

1. P.S to the Director (Planning & Contracts), HPPTCL, Shimla -2.
2. P.S to the Director (Projects), HPPTCL, Shimla -2.
3. The General Manager (Projects), HPPTCL, Shimla-2.
4. The DGM & Head Transmission (Design), Anu, Hamirpur.
5. The DGM (Projects), HPPTCL, Shimla -2.
6. The DGM (Finance), HPPTCL Shimla-2.
7. Sr. Manager Transmission Division, HPPTCL, Sarabai, Bhunter Distt. Kullu.