

TENDER SPECIFICATION

BHEL: PSSR: SCT: 1453

FOR

Handling at Site Stores / Storage yard, Transportation to Site of Work, Pre assy., Erection, Testing and Commissioning of **LT Electrical Package** of Unit- 1&2, Supply & Applications of touch-up, preservation and final painting of above package of NCTPS Stage-II 2x600 MW

at

North Chennai Thermal Power Station,

Atthipattu,

Chennai – 120, Tamil Nadu.

VOLUME –II

PRICE BID



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)

Power Sector – Southern Region

690, Anna Salai, Nandanam, Chennai – 600 035.

BHARAT HEAVY ELECTRICALS LIMITED
(A Government of India Undertaking)
Power Sector, Southern Region
690, Anna Salai, Nandanam, Chennai – 35

Tender Specification No. BHEL: PSSR: SCT: 1453

for

Handling at Site Stores / Storage yard, Transportation to Site of Work, Pre assy., Erection, Testing and Commissioning of LT Electrical Package of Unit- 1&2, Supply & Applications of touch-up, preservation and final painting of above package of NCTPS Stage-II 2x600 MW at North Chennai Thermal Power Station, Atthipattu, Chennai – 120, Tamil Nadu.

One set of Tender documents consisting of

- 1) TECHNOCOMMERCIAL BID - 2 copies
- 2) PRICE BID - 2 copies

Book Sl no

Issued to
M/s

Refer NIT for Last date of submission

Please note this tender document is not transferable

For and on behalf of
BHARAT HEAVY ELECTRICALS LIMITED

ADDL GENERAL MANAGER / CONTRACTS

Place: Chennai -35
Date:

North Chennai Thermal Power Station STAGE-II, 2x600 MW

BHEL: PSSR: SCT 1453 RATE SCHEDULE - LT ELECTRICAL PACKAGE

Sl.No	BOQ Ref. No.	Description	Unit	Total Qty for both units	Unit Rate in Rs.		Total Value in Rs.	
					In figures	In words	In figures	In words
		<u>LT BUS DUCTS</u>						
1	A.1.1	Non segregated LT 415 V, 4000/3000/2500A Bus ducts	Mtr	410				
2	G.1.0	DIESEL GENERATOR SET 1875 KVA	Set	3				
		<u>LOW VOLTAGE SWITCHGEAR / CONTROL PANELS</u>						
3	A.2.1, A.2.2	Station Service PMCC # 0DA & ODB, 4000 A	No	2				
4	A.2.3, A.2.4	Unit Service PMCC #1DA & 2DA, 4000 A	No	2				
5	A.2.5	Fuel Oil Pump house PMCC #0DC, 2500 A	No	1				
6	A.2.6	Fire Water P/H PMCC #0DD, 2500 A	No	1				

North Chennai Thermal Power Station STAGE-II, 2x600 MW

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Sl.No	BOQ Ref. No.	Description	Unit	Total Qty for both units	Unit Rate in Rs.		Total Value in Rs.	
					In figures	In words	In figures	In words
7	A.2.7	Water System PMCC #ODE, 3000 A	No	1				
8	A.2.8	AHP Vacuum P/H & Comp. House PMCC # ODF, 2500 A	No	1				
9	A.2.9	ASH Slurry cum Water P/H PMCC# 0DG, 4000 A	No	1				
10	A.2.10, A.2.11	Unit Emergency MCC # 1DG & 2DG, 3000 A	No	2				
11	A.2.12, A.2.13	220 V Main DCDB #1FA & 2FA, 1000A	No	2				
12	A.2.14, A.2.15	Boiler MCC# 1HA & 2HA , 1000A	No	2				
13	A.2.16, A.2.17	Boiler Valve & Damper ACDB # 1HB & 2HB, 250 A	No	2				

North Chennai Thermal Power Station STAGE-II, 2x600 MW

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Sl.No	BOQ Ref. No.	Description	Unit	Total Qty for both units	Unit Rate in Rs.		Total Value in Rs.	
					In figures	In words	In figures	In words
14	A.2.18, A.2.19	Boiler ACDB # 1HC & 2HC, 630 A	No	2				
15	A.2.20, A.2.21	ESP & ID FAN Area MCC #1HD & 2HD, 250 A	No	2				
16	A.2.22, A.2.23	Bottom Ash Handling MCC # 1HE & 2HE, 400 A	No	2				
17	A.2.24, A.2.25	Turbine MCC # 1KA & 2KA, 1000 A	No	2				
18	A.2.26, A.2.27	Turbine Valve ACDB #1KB & 2KB, 250 A	No	2				
19	A.2.28, A.2.29	Unit Service ACDB #1QA & 2QA, 630 A	No	2				
20	A.2.30, A.2.31	Air Washer MCC #1SA & 2SA, 630 A	No	2				

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Sl.No	BOQ Ref. No.	Description	Unit	Total Qty for both units	Unit Rate in Rs.		Total Value in Rs.	
					In figures	In words	In figures	In words
21	A.2.32, A.2.33	Ventilation MCC #1TA & 2TA , 1000 A	No	2				
22	A.2.34, A.2.35	ESP A/C & Vent. MCC #1TB & 2TB, 400 A	No	2				
23	A.2.36, A.2.37	Misc. Service MCC#0QA & 0QB, 630 A	No	2				
24	A.2.38	Bottom Ash Silo MCC #0SA, 400 A	No	1				
25	A.2.39	Work Shop ACDB #0SB, 630 A	No	1				
26	A.2.40	CCR AC MCC #0TA, 1600 A	No	1				
27	A.2.41	Service Build. AC & VENT. MCC #0TB, 1000 A	No	1				

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					In figures	In words	In figures	In words
28	A.2.42	CPU MCC #0WA, 400 A	No	1				
29	A.2.43	Raw Water P/H MCC #0WC, 1000 A	No	1				
30	A.2.44	ETP MCC #0WD, 400 A	No	1				
31	A.2.45	CW & Electro ChlorinationMCC #0DH, 3000 A	No	1				
32	A.2.46	Compressor House MCC #0SC, 400A	No	1				
33	A.2.47	Data Concentrator alongwith all accessories	Set	2				
34	A.2.48	240 V AC MCCB DBs (Wall mounted)	No	18				

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Sl.No	BOQ Ref. No.	Description	Unit	Total Qty for both units	Unit Rate in Rs.		Total Value in Rs.	
					In figures	In words	In figures	In words
35	A.2.49	220 V DC FUSE DBs (Wall mounted)	No	12				
36	A.2.50	Local motor starter	No	160				
37	B.1.0	Soot Blower MCC	No	2				
38	B.2.1, H.1.1	Fuel oil Electrical Heat Tracer Panel	No ^{\$}	3				
39	B.3.0, B.4.0	FTP Local starter panels ,D.C. Starter panel for Scanner air fan	No	6				
40	E.1.1 , F.2.0, F.1.0	D.C. Starter Panels with Resistance Box For EOPs, SOPs	No	8				
41	C.1.1	Auxiliary Control Panel	No	8				

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Sl.No	BOQ Ref. No.	Description	Unit	Total Qty for both units	Unit Rate in Rs.		Total Value in Rs.	
					In figures	In words	In figures	In words
42	C.1.2	LT Main switch board (LTMSB)	No	8				
43	C.1.3	Electronic Control Panel with Bapcon controller	No	160				
44	C.1.4	IOS panel with stand alone PC with colour monitor, Data logger PC with colour monitor, printer and other accessories etc.	Set	2				
45	C.1.5	Rapper Control Panel with Rapcon controllers	No	8				
46	C.1.6	RO-DM MCC	No	1				
47	C.1.7	Ash level indicator with probe	No	320				

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Sl.No	BOQ Ref. No.	Description	Unit	Total Qty for both units	Unit Rate in Rs.		Total Value in Rs.	
					In figures	In words	In figures	In words
48	D.1.0	Unit Control Panel	No	2				
49	D.2.0	Electrical Control Panel	No	2				
50	A.3.1, A.3.2, A.3.3, A.3.4, C.2.1	PUSH BUTTON STATIONS	No	1500				
51	B.5.0, C.2.2, C.2.3, C.2.4	JUNCTION BOXES	No	312				
		BATTERY AND BATTERY CHARGERS						
52	A.4.1	220 V DC, 820AH Capacity Battery	Set	8				

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					In figures	In words	In figures	In words
53	A.5.1	400A, 220V DC Float cum Boost Charger with Isolation box & Discharge resistor Bank	Set	6				
		Hot Dipped Galvanised Cable Trays complete with Coupler Plates, Fasteners & Covers						
54	A.6.1, C.3.1	Ladder type 600 mm wide	Mtr	39950				
55	A.6.2, C.3.2	Ladder type 450 mm wide	Mtr	7500				
56	A.6.3, C.3.3	Ladder type 300 mm wide	Mtr	28200				
57	A.6.4, C.3.4	Ladder type 150 mm wide	Mtr	17040				
58	A.6.5	Ladder type 100 mm wide	Mtr	1500				

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					In figures	In words	In figures	In words
59	A.6.6, C.3.5	Perforated Type, 600 mm wide	Mtr	22200				
60	A.6.7	Perforated Type, 450 mm wide	Mtr	3000				
61	A.6.8	Perforated Type, 300 mm wide	Mtr	14500				
62	A.6.9, C.3.6	Perforated Type, 150 mm wide	Mtr	1800				
63	A.6.10, B.6.1	Perforated Type, 100 mm wide	Mtr	3000				
64	A.6.11	Hot dip galvanised MS sheet (14 SWG) for covering of cable shaft (to be supplied in size 2000mmx1000mm min.)	Sq. mtr	1100				

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Sl.No	BOQ Ref. No.	Description	Unit	Total Qty for both units	Unit Rate in Rs.		Total Value in Rs.	
					In figures	In words	In figures	In words
		LAYING OF LT POWER CABLES 1.1 KV Grade, Aluminium conductor, XLPE/PVC insulated armoured cable.						
65	A.7.1	1 C X 35 sq. mm	Mtr	10000				
66	A.7.2	1 C X 400 sq. mm	Mtr	24000				
67	A.7.3	1 C X 630 sq. mm	Mtr	44000				
68	A.7.4	2 C X 25 sq. mm	Mtr	8000				
69	H.2.3	2 C X 35 sq. mm	Mtr	1000				
70	A.7.5, H.2.5	2 C X 70 sq. mm	Mtr	5500				

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					In figures	In words	In figures	In words
71	A.7.6, H.2.7	2 C X 95 sq. mm	Mtr	5500				
72	A.7.7, C.4.1	2 C X 120 sq. mm	Mtr	140000				
73	A.7.8	2 C X 185 sq. mm	Mtr	4000				
74	A.7.9, C.4.2	3 C X 25 sq. mm	Mtr	41900				
75	A.7.10	3 C X 50 sq. mm	Mtr	10000				
76	C.4.3	3 C X 70 sq. mm	Mtr	5200				
77	A.7.11, C.4.4	3 C X 95 sq. mm	Mtr	9725				

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					In figures	In words	In figures	In words
78	C.4.5	3 C X 120 sq. mm	Mtr	15000				
79	A.7.12	3 C X 150 sq. mm	Mtr	5000				
80	A.7.13	3 C X 240 sq. mm	Mtr	9000				
81	A.7.14	3.5 C X 25 sq. mm	Mtr	20000				
82	A.7.15	3.5 C X 50 sq. mm	Mtr	26000				
83	A.7.16	3.5 C X 95 sq. mm	Mtr	3000				
84	A.7.17	3.5 C X 185 sq. mm	Mtr	3000				

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					In figures	In words	In figures	In words
85	A.7.18	3.5 C X 300 sq. mm	Mtr	4000				
		LAYING OF LT XLPE POWER CABLES 1.1 KV Grade, Copper conductor, XLPE insulated armoured cable.						
86	A.8.1	1C X 95 sq.mm, Copper conductor	Mtr	100				
87	A.8.2	1C X 109/120 sq.mm, Copper conductor	Mtr	100				
88	A.8.3	1CX300 sq.mm copper conductor, armoured	Mtr	3500				
89	A.8.4	2CX95 sq.mm copper conductor, armoured	Mtr	3000				
90	A.8.5	2CX185 sq.mm copper conductor, armoured	Mtr	1500				

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Sl.No	BOQ Ref. No.	Description	Unit	Total Qty for both units	Unit Rate in Rs.		Total Value in Rs.	
					In figures	In words	In figures	In words
91	A.8.6	3Cx50 sq.mm copper conductor, armoured	Mtr	1500				
92	A.8.7	3CX95 sq.mm copper conductor, armoured	Mtr	1000				
		LT POWER CABLE END TERMINATIONS						
93	A.9.1	1 C X 35 sq. mm	No	560				
94	H.2.4	2 C X 35 sq. mm	No	10				
95	A.9.2	1 C X 95 sq. mm	No	40				
96	A.9.21	1CX300 sq.mm	No	160				

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					In figures	In words	In figures	In words
97	A.9.3	1 C X 400 sq. mm	No	1000				
98	A.9.4	1 C X 630 sq. mm	No	1100				
99	A.9.5	2 C X 25 sq. mm	No	500				
100	A.9.6, H.2.6	2 C X 70 sq. mm	No	120				
101	A.9.7, H.2.8	2 C X 95 sq. mm	No	70				
102	A.9.8, C.5.1	2 C X 120 sq. mm	No	1380				
103	A.9.9	2 C X 185 sq. mm	No	35				

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Sl.No	BOQ Ref. No.	Description	Unit	Total Qty for both units	Unit Rate in Rs.		Total Value in Rs.	
					In figures	In words	In figures	In words
104	A.9.10, C.5.2	3 C X 25 sq. mm	No	290				
105	A.9.11	3 C X 50 sq. mm	No	180				
106	C.5.3	3 C x 70 sqmm	No	64				
107	A.9.12 , C.5.4	3 C X 95 sq. mm	No	135				
108	C.5.5	3 C x 120 sqmm	No	192				
109	A.9.13	3 C X 150 sq. mm	No	40				
110	A.9.14	3 C X 185 sq. mm	No	20				

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Sl.No	BOQ Ref. No.	Description	Unit	Total Qty for both units	Unit Rate in Rs.		Total Value in Rs.	
					In figures	In words	In figures	In words
111	A.9.15	3 C X 240 sq. mm	No	150				
112	A.9.16	3.5 C X 25 sq. mm	No	130				
113	A.9.17	3.5 C X 50 sq. mm	No	600				
114	A.9.18	3.5 C X 95 sq. mm	No	130				
115	A.9.19	3.5 C X 185 sq. mm	No	100				
116	A.9.20	3.5 C X 300 sq. mm	No	130				

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Sl.No	BOQ Ref. No.	Description	Unit	Total Qty for both units	Unit Rate in Rs.		Total Value in Rs.	
					In figures	In words	In figures	In words
		1.1 KV LT XLPE CABLE STRAIGHT THROUGH JOINT KIT						
117	A.10.1	1CX400 Sq.mm, Armoured	No	32				
118	A.10.2	1CX630 Sq.mm, Armoured	No	12				
119	A.10.3	2CX25 Sq.mm, Armoured	No	12				
120	A.10.4	3.5X95 Sq.mm, Armoured	No	12				
		LAYING AND TERMINATION OF LT POWER / CONTROL CABLES , 1.1 KV Grade, Copper / Aluminium conductor, XLPE / PVC insulated armoured / Unarmoured cable.						
121	H.2.1	2 C X 4 sq. mm, Copper	Mtr	800				

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Sl.No	BOQ Ref. No.	Description	Unit	Total Qty for both units	Unit Rate in Rs.		Total Value in Rs.	
					In figures	In words	In figures	In words
122	A.11.1	2 C X 10 sq. mm, Aluminium	Mtr	10000				
123	H.2.2	2 C X 16 sq. mm, Aluminium	Mtr	600				
124	B.7.1, C.6.1	3CX6 sq.mm, Aluminium	Mtr	48600				
125	C.6.2	3 C X 10 sq. mm, Aluminium	Mtr	2000				
126	A.11.2	3 C X 16 sq. mm, Aluminium	Mtr	48000				
127	A.11.3	4 C X 16 sq. mm, Aluminium	Mtr	9000				

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					In figures	In words	In figures	In words
128	A.11.4, A.11.5, A.11.9, B.7.2, B.7.3, C.6.3, H.2.9	2 C & 3C X 2.5/1.5 copper, Armoured/Unarmoured	Mtr	557750				
129	A.11.6, B.7.4, B.7.7, C.6.7, F.4.1, A.11.10	4C & 5C X 2.5/1.5 sq. mm, Copper/Screened copper conductor, Armoured/Unarmoured	Mtr	167900				
130	A.11.7, A.11.11, A.11.12, B.7.5, B.7.6, C.6.4,	7C & 10C X 2.5/1.5 sq. mm, Copper conductor, Armoured	Mtr	101100				

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					In figures	In words	In figures	In words
131	A.11.8, C.6.5, A.11.13, A.11.14	12C & 14 X 2.5/1.5 sq. mm, Copper conductor, Armoured	Mtr	127200				
132	A.11.15, B.7.8 ,	16C & 19C X 1.5 sq. mm, Copper conductor, Armoured	Mtr	9100				
133	C.6.6	2 C X 2.5 sq. mm, Copper conductor, Unarmoured	Mtr	38000				
		EARTHING / LIGHTING PROTECTION MATERIALS						
134	A.12.1	75 x 10 mm GS Flats	Mtr	21300				
135	A.12.2, C.7.1	50 x 6 mm GS Flats	Mtr	30500				
136	A.12.3	25 x 3 mm GS Flats	Mtr	3332				

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					In figures	In words	In figures	In words
137	C.7.2	GI Flat 30 x 5 mm	Mtr	7400				
138	A.12.4, C.7.3	8 SWG GI Wire	Mtr	37200				
139	A.12.5	20 mm Dia,1-Meter long hot dip GS rod for vertical air termination	No	238				
140	A.12.6	Treated Earth pit:	No	250				
141	A.13.1, A.13.2, A.13.3, B.8.1, B.8.2, C.8.1, C.8.2, C.8.3	STRUCTURAL STEEL	MT	676				

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					In figures	In words	In figures	In words
		RIGID / FLEXIBLE CONDUITS						
142	A.14.1, C.9.1	GI rigid conduit - 2"dia	Mtr	690				
143	A.14.2	GI rigid conduit- 3"dia	Mtr	200				
144	C.9.2	GI Rigid conduit - 4" Dia	Mtr	315				
145	C.1.8	25mm dia GI Flexible Metallic Conduit	Mtr	4800				
		HEAT TRACING SYSTEM						
146	B.2.2, H.1.2	Electrical Heat Tracer Tape along with accessories	Mtr	4000				
		ELECTRICAL COMMISSIONING of the following erected by Mechanical Contractor						
147	B.9.1	Soot Blowers (LRSB/WB/AH etc) including commissioning of 2 Nos. motors, setting of limit switches etc	No ^s	264				

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					In figures	In words	In figures	In words
148	A.15.1, C.10.1	LT Motors	No ^{\$}	1236				
149	A.15.2	Electrical actuators for valves & dampers	No ^{\$}	800				
150	A.15.3, C.10.2	Hoists/cranes/monorail	No ^{\$}	98				
151	A.15.4, A.15.5	Exciter dryer/heater/Generator Air Drier	No ^{\$}	8				
152	A.15.6, A.15.7	CO ₂ Vaporizer / Exciter Stroboscope	No ^{\$}	4				
153	C.10.3, C.10.4, C.10.5, C.10.6 , C.10.7	Testing of Heaters / Thermostat	No ^{\$}	4816				

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					In figures	In words	In figures	In words
154	A.15.8, A.15.9, A.15.10, A.15.11	Control Panel for Dosing System	No ^{\$}	8				
155	E.1.2, F.3.0	Lub Oil Purification Equipment Panel	No ^{\$}	4				

Note :

1) \$ Rate to be quoted for ccommissioning only.

2) Before filling the Rates in the rate schedule, the bidder shall go through the detailed specification of all items of BOM as well as Scope of Work as specified in relevant Clause of the tender specification.

3) The quantity indicated in the BOQ / rate schedule is approximate only and is liable for variation. Payment will be as per actual qty erected / commissioned as certified by BHEL Engineer.

4) LUMPSUM UNIT RATE

Unit rate to be quoted on lump sum basis shall include installation of all loose items which are not explicitly mentioned, but comes as part of the system, integration of total system and commissioning. No separate rate shall be payable for loose items. The quantities of loose supplied items are approximate only. No proportional rate will be applicable for any variation in quantity or for any additional items supplied as part of equipments.

Signature of the bidder