

**TENDER SPECIFICATION
BHEL:PSSR:SCT: 1298**

**Handling at site Stores/Storage yard, Transportation
to site of work, Erection ,Testing and Commissioning of
Electrical package
for 2x250 MW Unit at Neyveli, Tamilnadu
for**

Neyveli Lignite Corporation

PART – II PRICE BID



BOOK NO :

BHARAT HEAVY ELECTRICALS LIMITED
(A Government of India Undertaking)
Power Sector – Southern Region
690, Anna Salai, Nandanam, Chennai – 600 035

SIGNATURE OF TENDERER

TENDER SPECIFICATION No. BHEL:PSSR:SCT: 1298

NAME OF THE WORK

Handling at site Stores/Storage yard, Transportation to site of work,
Erection ,Testing and Commissioning of Electrical package
for 2x250 MW Unit at Neyveli, Tamilnadu for
Neyveli Lignite Corporation

RATE SCHEDULE

Issued to M/s

For and on Behalf of
BHARAT HEAVY ELECTRICALS LIMITED

Addl General Manager/Contracts

(This tender document is not Transferable)

Place: Chennai – 600 035

Date:

SIGNATURE OF TENDERER

NEYVELI TPS -II UNIT 3 & 4 (2 X 250 MW) ELECTRICAL (HT & LT) PACKAGE

Before filling the Rates, the bidder shall go through the detailed specification of all the items given in the detailed Bill of Materials (BOM) as well as Scope of Work specified in Section VI

Sl. No.	BOM Ref No:	Description	Qty (Common & Unit 3)	Qty (Unit 4)	Total Qty	Unit Rate	Total
		TRANSFORMERS:					
1.	B1.1, B1.2	2500 KVA TRANSFORMERS (1DAT01, 1DAT02, 2DAT01, 2DAT02, 1DCT01, 1DCT02, 2DCT01, 2DCT02)	4 sets*	4 sets*	8 sets*		
2.	B1.3, B1.4	2000 KVA TRANSFORMERS (0DAT01, 0DAT02, 0DBT01, 0DBT02)	2 sets*	2 sets*	4 sets*		
3.	B1.5	1000 KVA MAIN LIGHTING TRANSFORMER (0DCT01, 0DCT02)	1 set*	1 set*	2sets*		
4.	F2.1	VFD transformers	4 sets*	4 sets*	8 sets*		
5.	C2.1	Neutral Grounding Resistor (NGR)	4 Nos.	4 Nos.	8 Nos.		
		BUS DUCT					
6.	B.2.1	16.5 KV IP Bus duct Approximate length of main BD all phases: 397 Meters per set Approximate length of tapoff BD all phases: 151 Meters per set	1 set*	1 set*	2sets*		

SIGNATURE OF TENDERER

Sl. No.	BOM Ref No:	Description	Qty (Common & Unit 3)	Qty (Unit 4)	Total Qty	Unit Rate	Total
7.	B2.2.1, B2.2.2, B2.2.3	6.6 KV, 2500 Amp SP Bus duct	690 Mtrs	663 Mtrs	1353 Mtrs		
8.	C4.2	415 V,1600/3000/4000 A Non- segregated phase LT Bus duct	150 Mtrs	150 Mtrs	300 Mtrs		
		GENERATOR CIRCUIT BREAKER					
9.	C1.1	Generator Circuit Breaker-24 KV,12500 Amp,SF6	1 set*	1 set*	2 sets*		
		HT SWITCHGEAR					
10.	A1.1, A1.2	6.6 KV Unit Switchboard (1CA, 2CA)	1 set*	1 set*	2sets*		
11.	A1.3, A1.4	6.6 KV Unit Switchboard (1CB, 2CB)	1 set*	1 set*	2 sets*		
12.	A1.5, A1.6 A1.7, A1.8	Station Switch Board (OCA,OCB,OCC,OCD)	2sets*	2sets*	4sets*		
13.	A1.9	Earthing Trucks /Breakers	8 Nos.	8 Nos.	16 Nos.		
		CONTROL PANELS					
14.	A 2.1	Generator Relay Panel	1 set*	1 set*	2 sets*		
15.	F.1.1	Regulation Cubicle and Field Flashing Cubicle	1 No	1 No	2 No		
16.	F.1.2	Field Breaker Cubicle	1 No	1 No	2 No		
17.	F.1.3	Thyristor Cubicle	4 Nos	4 Nos	8 Nos		
18.	F.1.4	Trunking Cubicle	1 No	1 No	2 No		
19.	F.1.5	Transformer Cubicle along with Cable box	1 No	1 No	2 No		
20.	F2.2	DC Air core Reactor	4 sets*	4 sets*	8 sets*		
21.	F2.3	LCI Drive Panel	4 sets*	4 sets*	8 sets*		
22.	F2.4	Control Panel for VFD Drives	2 Nos.	2 Nos.	4 Nos.		

SIGNATURE OF TENDERER

Sl. No.	BOM Ref No:	Description	Qty (Common & Unit 3)	Qty (Unit 4)	Total Qty	Unit Rate	Total
23.	F2.5	Adaptor Cubicle	4 Nos.	4 Nos.	8 Nos.		
24.	F2.6	MMI for VFD	1 set*	--	1 set*		
25.	F3.1	Unit Control Panel(UCP)	1 No	1 No	2 Nos		
26.	F3.2	Electrical Control Panel(ECP)	1 No	1 No	2 Nos		
		415V LOW VOLTAGE SWITCHGEAR/ MCC/ PCC					
27.	C3.1	Station Service PCC (ODA)	1 Set*	--	1 Set*		
28.	C3.2	A/C & Ventilation MCC (ODB)	1 Set*	--	1 Set*		
29.	C3.3	Lighting MCC (ODC)	1 Set*	--	1 Set*		
30.	C3.4	Fuel Oil Pump House MCC (OSA)	1 Set*	--	1 Set*		
31.	C3.5	Lime Handling MCC(OSB)	1 Set*		1 Set*		
32.	C3.6	Ventilation MCC-1(OSC)	1 Set*	--	1 Set*		
33.	C3.7	Ventilation MCC-2(OSD)	1 Set*		1 Set*		
34.	C3.8	Air conditioning MCC (OSE)	1 Set*	--	1 Set*		
35.	C3.9	Unit Service MCC (1DA/2DA)	1 Set*	1 Set*	2 Sets*		
36.	C3.10	ESP Switchgear MCC (1DC/2DC)	1 Set*	1 Set*	2 Sets*		
37.	C3.11	Emergency MCC (1EA/2EA)	1 Set*	1 Set*	2 Sets*		
38.	C3.12	Boiler Aux.MCC (1HA/2HA)	1 Set*	1 Set*	2 Sets*		
39.	C3.13	Boiler Valve MCC (1HB/2HB)	1 Set*	1 Set*	2 Sets*		
40.	C3.14	Turbine Aux.MCC (1KA/2KA)	1 Set*	1 Set*	2 Sets*		
41.	C3.15	Turbine Valve MCC (1KB/2KB)	1 Set*	1 Set*	2 Sets*		

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Sl. No.	BOM Ref No:	Description	Qty (Common & Unit 3)	Qty (Unit 4)	Total Qty	Unit Rate	Total
42.	C3.16	ESP & Vent MCC (1QA/2QA)	1 Set*	1 Set*	2 Sets*		
43.	C3.17	220V Unit DCDB (1FA/ 2FA)	1 set*	1 set *	2 sets*		
44.	C3.18	220V Station DCDB (0FA)	1 Set*	--	1 Set*		
45.	C3.19	415V ACDB(1SA/2SA)	1 Set*	1 Set*	2 sets*		
46.	D1.1	Soot Blower MCC	1 Set*	1 Set*	2 sets*		
47.	D1.2	VFD Panel lignite drag link chain feeder	1 No.	1 No.	2 Nos		
48.	D1.3	VFD Panel-Limestone airlock feeder	1 No.	1 No.	2 Nos		
49.	E1.1	Auxiliary Control Panel	2 Nos.	2 Nos.	4 Nos.		
50.	E1.2	Electronic Control Panel with Bapcon controllers	32 Sets*	32 Sets*	64 Sets*		
51.	E1.3	IOS PC with monitor, printers and other accessories etc.	1 set*	1 set*	2 sets*		
52.	E1.4	Rapper Control Panel- with Rapcon controllers	2 Nos.	2 Nos.	4 Nos.		
53.	E1.5	Ash level indicator, along with accessories like 15 m each of flexible conduit, cable, wire, electronic unit and probe assembly	64 Sets*	64 Sets*	128 Sets*		
54.	G.1.1	D.C. Starter Cabinet with Resistance box for DC Seal Oil Motor	1Set*	1 set*	2 sets*		
55.	G.1.2	D.C. Starter Panels For Emergency Lub oil Motor	1 Set*	1 set*	2 sets*		
56.	G.1.3	D.C. Starter Panels For Jacking Oil Motor	1 Set*	1 Set*	2 sets*		
		BATTERY & BATTERY CHARGERS					
57.	C5.1	220 V DC Battery & Battery Charger	2 sets*	1 set*	3 sets*		
		HT CABLES					
58.	C6.1	3C x 185 sq.mm,AL armoured,6.35 KV/11KV Grade	6500 Mtr	6500 Mtr	13000 Mtr		

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Sl. No.	BOM Ref No:	Description	Qty (Common & Unit 3)	Qty (Unit 4)	Total Qty	Unit Rate	Total
59.	C6.2	1C X 630 sq.mm ,AL armoured,6.35 KV/11KV Grade	3750 Mtr	3750 Mtr	7500 Mtr		
60.	C6.3	1C x 630 sq. mm, AL unarmoured,3.3 KV Grade(unearthed)	2800 Mtrs	2800 Mtrs	5600 Mtrs		
		HT CABLE TERMINATIONS					
61.	C7.1	1 C X 630 sq. mm, Al, Armoured, 6.35 KV/11KV Grade	45 Nos	45 Nos	90 Nos		
62.	C7.2	3 C X 185 sq. mm, Al, Armoured, 6.35 KV/11KV Grade	68 Nos	68 Nos	136 Nos		
63.	C8.1	1 C X 630 sq. mm,AL, Unarmoured,, 3.3 KV Grade(unearthed)	105 Nos	105 Nos	210 Nos		
		LT POWER CABLES					
64.	C9.1	1 C X 630 sq. mm, Al, Armoured	15500Mtr	15500Mtr	31000Mtr		
65.	C9.2	1 C X 400 sq.mm, Al Armoured	6000 Mtrs	6000 Mtrs	12000Mtrs		
66.	C9.3	1 C X 185 sq. mm, Al, Armoured	2000 Mtrs	2000 Mtrs	4000 Mtrs		
67.	C9.4	1 C X 70 sq. mm, Al, Armoured	1250 Mtrs	1250 Mtrs	2500 Mtrs		
68.	C9.5	1 C X 35 sq. mm, Al, Armoured	2000 Mtrs	2000 Mtrs	4000 Mtrs		
69.	C9.6	1 C X 10 sq. mm, Al, Armoured	1250 Mtrs	1250 Mtrs	2500 Mtrs		
70.	E5.1	2 C X 185 sq.mm, Al, Armoured	10500Mtr	10500Mtrs	21000Mtr		
71.	C9.7	2 C X 25 sq. mm, Al, Armoured	750 Mtrs	750 Mtrs	1500 Mtrs		
72.	E5.5	2 C X 2.5 sq. mm, Al, Armoured	7000 Mtrs	7000 Mtrs	14000Mtr		
73.	C9.8	3 C X 240 sq. mm, Al, Armoured	1250 Mtrs	1250 Mtrs	2500 Mtrs		
74.	C9.9	3 C X 120 sq. mm, Al, Armoured	750 Mtrs	750 Mtrs	1500 Mtrs		
75.	C9.10	3 C X 95 sq. mm, Al, Armoured	750 Mtrs	750 Mtrs	1500 Mtrs		
76.	C9.11	3 C X 50 sq. mm, Al, Armoured	1750 Mtrs	1750 Mtrs	3500Mtr		

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Sl. No.	BOM Ref No:	Description	Qty (Common & Unit 3)	Qty (Unit 4)	Total Qty	Unit Rate	Total
77.	E5.3	3 C X 35 sq. mm Al, Armoured	650 Mtrs	650 Mtrs	1300Mtrs		
78.	C9.12	3 C X 25 sq. mm, Al, Armoured	3000 Mtrs	3000 Mtrs	6000 Mtrs		
79.	C9.13, E5.4	3 C X 10 sq. mm, Al, Armoured	10750 Mtrs	10750 Mtrs	21500 Mtrs		
80.	D2.1	3 C X 4 sq. mm, AL, Armoured	22,000 Mtrs	22,000 Mtrs	44,000 Mtrs		
81.	C9.14	3.5 C X 240 sq. mm, Al, Armoured	1000 Mtrs	1000 Mtrs	2000 Mtrs		
82.	C9.15, E5.2	3.5 C X 120 sq. mm, Al, Armoured	750 Mtrs	750 Mtrs	1500Mtr		
83.	C9.16	3.5 C X 70 sq. mm, Al, Armoured	1000 Mtrs	1000 Mtrs	2000 Mtrs		
84.	C9.17	3.5 C X 50 sq. mm, Al, Armoured	1250 Mtrs	1250 Mtrs	2500 Mtrs		
85.	C9.18	3.5 C X 25 sq. mm, Al, Armoured	14000 Mtrs	14000 Mtrs	28000 Mtrs		
86.	C9.20	2 C X50 sq. mm, Copper, Armoured	250 Mtrs	250 Mtrs	500 Mtrs		
87.	C9.21	2 C X25 sq. mm, Copper, Armoured	500 Mtrs	500 Mtrs	1000 Mtrs		
88.	C9.23	2 C X 6 sq. mm, Copper, Armoured	750 Mtrs	750 Mtrs	1500 Mtrs		
89.	C9.22	2 C X 2.5 sq. mm, Copper, Armoured	35000Mtr	35000Mtrs	70000Mtr		
90.	C9.24	3 C X 2.5 sq. mm, Copper, Armoured	40000 Mtrs	40000 Mtrs	80000 Mtrs		
91.	C9.19	1 C X 400 sq. mm, Copper, Armoured	1250Mtrs	1250 Mtrs	2500 Mtrs		
		LT POWER CABLE TERMINATIONS <i>1.1 kV grade, Armoured, power cables, HRPVC Type –C insulation</i>					
92.	C10.1	1 C X 630 sq. mm, Al, Armoured	206 Nos	206 Nos	412 Nos		
93.	C10.2	1 C X 400 sq.mm, Al, Armoured	80 Nos	80 Nos	160 Nos		

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Sl. No.	BOM Ref No:	Description	Qty (Common & Unit 3)	Qty (Unit 4)	Total Qty	Unit Rate	Total
94.	C10.3	1 C X 185 sq. mm, Al, Armoured	26 Nos	26 Nos	52 Nos		
95.	C10.4	1 C X 70 sq. mm, Al, Armoured	16 Nos	16 Nos	32 Nos		
96.	C10.5	1 C X 35 sq. mm, Al, Armoured	26 Nos	26 Nos	52 Nos		
97.	C10.6	1 C X 10 sq. mm, Al, Armoured	16 Nos	16 Nos	32 Nos		
98.	E6.1	2C x 185 sqmm Al, Armoured	256 Nos	256 Nos	512 Nos		
99.	C10.7	2 C X 25 sq. mm, Al, Armoured	10 Nos	10 Nos	20 Nos		
100.	E6.6	2C x 2.5 sqmm Al, Armoured	138 Nos	138 Nos	276 Nos		
101.	C10.8	3 C X 240 sq. mm, Al, Armoured	16 Nos	16 Nos	32 Nos		
102.	C10.9	3 C X 120 sq. mm, Al, Armoured	10 Nos	10 Nos	20 Nos		
103.	C10.10	3 C X 95 sq. mm, Al, Armoured	10 Nos	10 Nos	20 Nos		
104.	E6.3	3C x 35 sq.mm Al, Armoured	24 Nos	24 Nos	48 Nos		
105.	C10.11	3 C X 50 sq. mm, Al, Armoured	24 Nos	24 Nos	48 Nos		
106.	C10.12	3 C X 25 sq. mm, Al, Armoured	40 Nos	40 Nos	80 Nos		
107.	C10.13, E6.4	3 C X 10 sq. mm, Al, Armoured	168 Nos	168 Nos	336 Nos		
108.	D2.1	3 C X 4 sq. mm, AL, Armoured	293 Nos	293 Nos	586 Nos		
109.	C10.14	3.5 C X 240 sq. mm, Al Armoured	14 Nos	14 Nos	28 Nos		
110.	C10.15, E6.2	3.5 C X 120 sq. mm, Al, Armoured	26 Nos	26 Nos	52 Nos		
111.	C10.16	3.5 C X 70 sq. mm, Al, Armoured	14 Nos	14 Nos	28 Nos		
112.	C10.17	3.5 C X 50 sq. mm, Al, Armoured	16 Nos	16 Nos	32 Nos		

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Sl. No.	BOM Ref No:	Description	Qty (Common & Unit 3)	Qty (Unit 4)	Total Qty	Unit Rate	Total
113.	C10.18	3.5 C X 25 sq. mm, Al, Armoured	12 Nos	12 Nos	24 Nos		
114.	C10.19	1 C X 400 sq. mm, Copper, Armoured	16 Nos	16 Nos	32 Nos		
115.	C10.20	2 C X50 sq. mm, Copper, Armoured	4 Nos	4 Nos	8 Nos		
116.	C10.21	2 C X25 sq. mm, Copper, Armoured	6 Nos	6 Nos	12 Nos		
117.	C10.23	2 C X 6 sq. mm, Copper, Armoured	10 Nos	10 Nos	20 Nos		
118.	C10.22	2 C X 2.5 sq. mm, Copper, Armoured	466 Nos	466 Nos	932 Nos		
119.	C10.24, E6.5	3 C X 2.5 sq. mm, Copper, Armoured	974 Nos	974 Nos	1948 Nos		
120.	E6.8	7 C x 2.5 sq. mm ,CU, Armoured	88 Nos	88 Nos	176 Nos		
121.	E6.7	10 C x 2.5 sq. mm ,CU, Armoured	148 Nos	148 Nos	296 Nos		
		LT CONTROL CABLES (laying & termination)					
122.	C11.1	2 C X 1.5 sq. mm, CU, Armoured	12500Mtr	12500Mtrs	25000Mtr		
123.	C11.2, E7.1	3 C X 1.5 / 2.5 sq. mm, CU, Armoured	32500Mtr	32500Mtrs	65000Mtr		
124.	C11.3, C11.4	5 C X 1.5 / 2.5 sq. mm, CU, Armoured	28250Mtr	28250Mtr	56500 Mtrs		
125.	C11.5, E7.2	7 C X 1.5 /2.5 sq. mm, CU, Armoured	7750Mtr	7750Mtrs	15500Mtr		
126.	E7.3	10C X 2.5 sq. mm, CU, Armoured	7500 Mtrs	7500 Mtrs	15000Mtr		
127.	C11.6	12 C X 1.5 sq. mm, CU, Armoured	75000Mtr	75000Mtr	150000Mtr		
128.	C11.7	19 C X 1.5 sq. mm, CU, Armoured	6,000Mtrs	6,000 Mtrs	12000Mtr		
129.	F2.7.4,F2.7.1	2 C X1.5/ 2.5 sq mm, Cu, unarmoured	4450 Mtrs	4450 Mtrs	8900 Mtrs		
130.	F2.7.2	4 C X 1.5 sq mm, Cu, unarmoured	150 Mtrs	150 Mtrs	300 Mtrs		

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Sl. No.	BOM Ref No:	Description	Qty (Common & Unit 3)	Qty (Unit 4)	Total Qty	Unit Rate	Total
131.	F2.7.3	14 C X 1.5 sq mm, Cu, unarmoured	200 Mtrs	200 Mtrs	400 Mtrs		
		SCREENED CABLES					
132.	E7.4	4C x 1.5 sq. mm, Cu, Screened cable	6500 Mtrs	6500 Mtrs	13000 Mtrs		
133.	F2.8.1	2P x 0.5 sqmm cable, CU, Armoured, Type 'F'	800 Mtrs	800 Mtrs	1600Mtrs		
134.	F2.8.2	4P x 0.5 sqmm cable ,CU, Armoured, Type 'F'	3300Mtrs	3300Mtrs	6600Mtrs		
135.	F2.8.3	12P x 0.5 sqmm cable, CU, Armoured, Type 'F'	1100Mtrs	1100Mtrs	2200Mtrs		
136.	F2.8.4	2P x 0.5 sqmm cable, CU, Armoured, Type 'G'	1680Mtrs	1680Mtrs	3360Mtrs		
137.	F2.8.5	4P x 0.5 sqmm cable CU, Armoured, Type 'G'	2380Mtrs	2380Mtrs	4760Mtrs		
138.	F2.8.6	8P x 0.5 sqmm cable CU, Armoured, Type 'G'	2440Mtrs	2440Mtrs	4880Mtrs		
139.	F2.8.7	14P x 0.5 sqmm cable, CU, Armoured, Type 'G'	800 Mtrs	800 Mtrs	1600Mtrs		
		Junction Boxes/ Local Start Stop Push Buttons					
140.	E3.1	Local Start Stop Push Buttons (for Rapping Motors)	68 Nos.	68 Nos.	136 Nos.		
141.	E3.2	Junction Boxes for hopper heaters/ support insulator heaters/ shaft insulator heaters	44 Nos.	44 Nos.	88 Nos.		
142.	E3.3	Junction Boxes for hopper thermostat, start stop PBs, ALI	16 Nos.	16 Nos.	32 Nos.		
143.	C4.1	Local Push Button Stations	175 Nos.	175 Nos.	350 Nos		
		CABLE TRAYS COMPLETE WITH COUPLER PLATES, FASTENERS etc.					
144.	C12.1, D.4.1	Ladder type, 600 mm wide	17675 Mtr	17675 Mtr	35350 Mtr		
145.	C12.2, E4.1	Ladder type, 450 mm wide	3500 Mtrs	3500 Mtrs	7000Mtr		

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Sl. No.	BOM Ref No:	Description	Qty (Common & Unit 3)	Qty (Unit 4)	Total Qty	Unit Rate	Total
146.	C12.3, D.4.2, E4.2	Ladder type, 300 mm wide	7000 Mtrs	7000 Mtrs	14000 Mtrs		
147.	C12.4, E4.3	Ladder type, 150 mm wide	1065 Mtrs	1065Mtrs	2130 Mtrs		
148.	C12.5	Perforated Type, 150 mm wide	500 Mtrs	500 Mtrs	1000 Mtrs		
149.	C12.6	Galvanized MS sheet (14 SWG) perforated type for covering of cable shaft	200 sq.mtrs	200 sq.mtrs	400 sq.mtrs		
		STRUCTURAL STEEL FOR SUPPORT					
150.	C13.1	Structural Steel for fabrication of supports (ISA - 50, ISMC – 100, ISMC - 150 etc.)(Mild Steel)	120 MT	120 MT	240 MT		
151.	C13.2	Structural Steel for fabrication of supports (ISA - 50, ISMC – 100, ISMC – 15 etc.)(Galvanized Steel)	30 MT	30 MT	60 MT		
152.	E9.0	Structural Steel For Support (ISMC 100 x50, ISMC 75 x40, ISA 50x50x 6 etc.)	18 MT	18 MT	36 MT		
		LIGHTNING PROTECTION SYSTEM					
153.	C14.1	20 mm dia 1 meter long GS Rod for Vertical Air Termination	45Nos.	45 Nos	90 Nos.		
154.	C14.2	Test Links with 150 X50 X 6 thick GS plate with box	45 Nos.	45 Nos.	90 Nos.		
155.	C14.3	50 x 6 mm Galvanized MS strip for horizontal air terminations	1850 Mtrs	1850 Mtrs	3700 Mtrs		
156.	C14.4	50 x 6 mm Galvanized MS strip for down conductors	2000 Mtrs	2000 Mtrs	4000 Mtrs		
157.	C14.5	Vertical earth electrodes-3 Mtrs long, 40 mm dia MS Rod	45 Nos	45 Nos	90 Nos		
158.	C14.6	40 mm MS Riser rod	100 Mtrs	100 Mtrs	200Mtrs		
159.		ABOVE GROUND EARTHING MATERIALS					
160.	C15.1	50 x 10 mm GS Flats	1025 Mtrs	1025 Mtrs	2050 Mtrs		

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Sl. No.	BOM Ref No:	Description	Qty (Common & Unit 3)	Qty (Unit 4)	Total Qty	Unit Rate	Total
161.	C15.2, E8.1	50 x 6 mm GS/ GI Flats	6250 Mtrs	6250 Mtrs	12500 Mtrs		
162.	E8.2	30 x 5 mm GI Flat	1000 Mtr	1000 Mtr	2000 Mtr		
163.	C15.3	25 x 6 mm GS Flats	880 Mtrs	880 Mtrs	1660 Mtrs		
164.	C15.4	25 x 3 mm GS Flats	880 Mtrs	880 Mtrs	1660 Mtrs		
165.	C15.5, E8.3	8 SWG GI Wire	8000 Mtrs	8000 Mtrs	16000 Mtrs		
166.	C15.6	Treated earth pits including supply of 100 mm ID, 13 mm THK, 3700 mm long GI pipe	28Nos	28 Nos	56 Nos		
		HEATING ELEMENTS					
167.	E2.1	Testing and Termination and dressing of Heating Elements for Hopper	768 Nos.	768 Nos.	1536 Nos.		
168.	E2.2	Testing Heating elements for support insulator heater	128 Nos.	128 Nos.	256 Nos.		
169.	E2.3	Testing Heating elements for shaft insulator heater	32 Nos.	32 Nos.	64 Nos.		
170.	E2.4	Testing Thermostats for hopper & insulator heaters.	36 Nos.	36 Nos.	72 Nos.		
		COMMISSIONING of the following erected by Mechanical Contractor					
171.	G.2.1	250 MW Generator	1 No.	1 No.	2 Nos		
172.	G.2.2	6.6 KV HT Motors	29 Nos.	24 Nos	53 Nos		
173.	C16.1, D.5.1 G.2.3, H.1.1	LT Drives- Unidirectional	224 Nos.	128 Nos.	352 Nos.		

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Sl. No.	BOM Ref No:	Description	Qty (Common & Unit 3)	Qty (Unit 4)	Total Qty	Unit Rate	Total
174.	C16.2, D.5.2, E10.1, G.2.4, H.1.2	LT Drives- bidirectional	424 Nos	421 Nos	865Nos		
175.	D.5.3, E10.2	Hoists & cranes	12 Nos	12 Nos	24 Nos		
176.	E10.3	ESP Transformer	32 Nos	32 Nos	64 No.		
177.	C16.3	Control Panel for Hydrogen Dosing System	1 No.	1 No.	2 No.		
178.	C16.4	Control Panel for Ammonia Dosing System	1 No.	1 No.	2 No.		
179.	C16.5	Control Panel for Phosphate Dosing System	1 No.	1 No.	2 No.		

Total Contract Value Rs.-----

(Rupees)

SIGNATURE OF TENDERER

NOTE TO RATE SCHEDULE:

1. The quantities indicated in columns 4 & 5 are approximate and are liable for variation and alteration at the discretion of BHEL.. The work executed shall be measured and priced at unit rate quoted by the contractor and accepted by BHEL.
2. The Tenderer is expected to fill up the rate column after satisfying all terms and conditions of Tender Specification.
Tenderers are requested to quoted their rates, only in the price bid (part II) provided by BHEL.

Signature of Tenderer

SIGNATURE OF TENDERER