TENDER SPECIFICATION BHEL PSSR SCT 2063

FOR

Package 1: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-1 main plant & identified BOP areas, Package-2: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-2 main plant of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, Tamilnadu

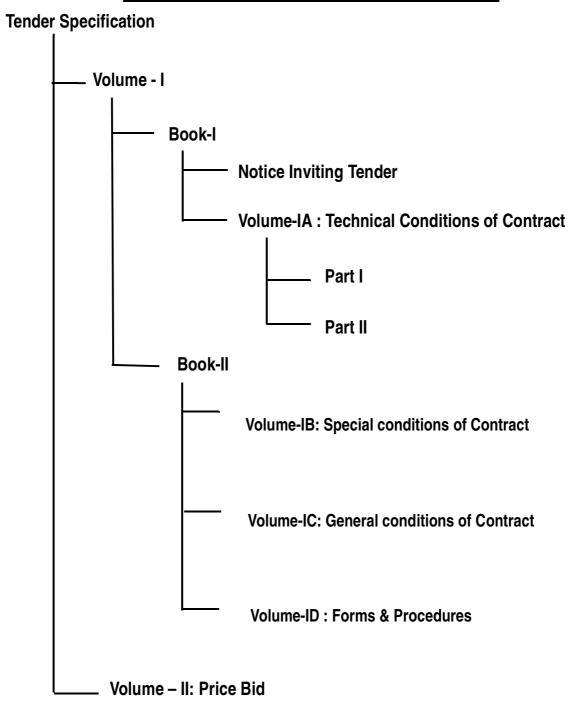
PRICE BID VOLUME –II



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
Power Sector – Southern Region
Integrated Office Complex, 26/4, Velachery-Tambaram Main Road,
TNEB Road, Pallikaranai, Chennai, Tamilnadu 600100

TENDER SPECIFICATION CONSISTS OF



PRICE BID

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PRICE BID

PART A

Instruction to Bidders:

- 1. The quantity indicated in the BOQ / Price bid (Part C) is approximate only and is liable for variation. Payment will be as per actual quantity executed as certified by BHEL Engineer.
- 2. Tenderers are requested to affix their company seal and authorized signature in all pages.
- 3. Bidders shall quote 'Total Amount' in the format enclosed as a separate Excel File in BHEL NIC e-Procurement portal for the subject tender and upload the same under 'Packet details > Tender covers -> Finance '(Cover Type Description Price Bid)" and same shall be taken into account for evaluation and awarding and hence, shall be complete in all respect for the full scope of work defined in specification and in accordance with terms & conditions of the tender. Any other entry elsewhere in the price bid shall be treated as Null and Void. Quoting of rates in any other form/ formats will not be entertained.
- 4. The above mentioned 'Total amount' is for the entire Bill of Quantity (BOQ) given in Part -C of the Price Bid.
- 5. BHEL has pre-fixed the weightages for the amount of individual items of Bill of Quantity with respect to the 'Total Amount' in Part-C.
- 6. Based on the pre-fixed weightages, the amount for the individual items of the Bill of Quantity shall be arrived at. This amount shall be rounded off to the nearest rupee.
- 7. Based on the quantities of individual item and the amount arrived in SI No: 6 above, unit rate of individual items shall be derived. This unit rate shall be rounded off to four decimal places.
- 8. Bidders to note that this is an item rate contract. Payment shall be made for the actual quantities of work executed at the unit rate arrived at as per SI No.7 above.
- 9. Bidder shall quote one composite price, covering both the packages

Tender Specification BHEL:PSSR:SCT:2063 for Package 1: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-1 main plant & identified BOP areas of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

at 2 X 660 MW Ennore SEZ Supercritical Thermal Power Project at Ash Dyke of NCTPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
I	ERECTION AND COMMISSIONING OF LT SWITCHGEAR ACDB/DCDB/MCC/PMCC			
B.1.2, B.1.3	220 V Sea Water Intake DCDB (0FA-250 A) / RO-DM DCDB (0FB-200 A), Approximate Overall Weight (in kg) 2300, Approximate Dimension in mm (LxHxD):2400x2450x1000	SET	2	.0009544
	415 V Catneen ACDB (0SB-250 A)/Aux Boiler MCC (0HB-400 A), Approximate Overall Weight (in kg)2100/4500, Approximate Dimension in mm (LxHxD): 2900/3400 x 2400 x 600/1000		2	.0013521
B.2.5, B.3.10	415 V Workshop ACDB (0SA-400 A)/ 415 V ESP &ID Fan area MCC (1HC-400 A), Approximate Overall Weight (in kg) 4500/3000, Approximate Dimension in mm (LxHxD):5100x2400x1000, Approximate Overall Weight (in kg) 3000	SET	2	.0020283
B.3.11	415 V DG PCC (1DH-3000 A)/415 V ESP A/C & Ventilation MCC (1TB-400 A)/ 415 V Hydrogen Generation MCC (0SC-400 A), Approximate Overall Weight (in kg) 6000/3000/3500,, Approximate Dimension in mm (LxHxD):6000/5950x2400x1600		3	.0035793
B.3.28	415 V STP MCC (0WC- 250 A), Approximate Overall Weight (in kg) 4500, Approximate Dimension in mm (LxHxD):6800x2400x1000	SET	1	.0013522
B.3.19	415 V CPU MCC (0WA-400 A), Approximate Overall Weight (in kg) 4500, Approximate Dimension in mm (LxHxD):7650x2400x1000	SET	1	.0015192
B.2.3, B.3.14	415 V Service ACDB (1QA-630 A)/415 V Air Washer (1SA-630 A)/415 V PTP MCC (0WB-400 A), Approximate Overall Weight (in kg) 8500/12800/4500, Approximate Dimension in mm (LxHxD):8200/8250/8500x2400x(600/400/1000)	SET	3	.0050707
B.3.27				

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Tender Specification BHEL:PSSR:SCT:2063 for Package 1: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-1 main plant & identified BOP areas of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.1.1, B.2.2, B.3.13	220V MAIN DCDB (1FA-1600 A) / 415 V Boiler ACDB (1HB-400 A)/ CCR Air Conditioning MCC(0TA-1600 A)/ Ventilation MCC (1TA-1000 A)/ Misc Service MCC (0QA-630 A)/ Service Building & AC Vent. MCC (0TB-1000 A), Approximate Overall Weight (in kg) 8500/10500, Approximate Dimension in mm (LxHxD): 9500 x 2400 x 600		6	.0113346
B.3.16 B.3.17				
B.3.25	415 V Sea Water Intake PMCC (0DF-1000 A), Approximate Overall Weight (in kg) 5000, Approximate Dimension in mm (LxHxD):10190x2400x(1600/1000)	SET	1	.0020111
	415 V Admin Bldg. PMCC (0DG-1600 A)/415 V ETP PMCC (0DJ-1600 A), Approximate Overall Weight (in kg) 10500, Approximate Dimension in mm (LxHxD):11180x2400x1600	SET	2	.0044463
B.2.1, B.3.12 B.3.20	415 V Boiler Valve & Damper ACDB (1HA-250 A)/ 415 V Station Services PMCC (0DA-4000 A)/ 415 V Fuel Oil P/H PMCC (0DC-2000 A), Approximate Overall Weight (in kg) 8500/9000/7700, Approximate Dimension in mm (LxHxD):14450/14730/14980x2400x600/1600/1000		3	.0088678
D.8.1	415 V, 2000 A, ESP-LTMSB-App.Overall Wt. of 13000 kg, App. Dimension in mm (LxHxD) 15850x2450x1700	SET	4	.0124424
B.2.4	415 V Turbine Valve DB (1KA-250 A), Approximate Overall Weight (in kg) 9500, Approximate Dimension in mm (LxHxD):16500x2400x600	SET	1	.0032759

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.3.23	415 V Turbine Service PMCC (1DB-2500 A)/ 415 V CW/Electro Chlorination PMCC (0DE-4000 A)/415 V RO-DM PMCC (0DH-2500 A) Approximate Overall Weight (in kg) $12000/11000/15000$, Approximate Dimension in mm (LxHxD): $17530/17180/17530x2400x(1600x1000)$	SET	3	.0105538
B.3.2	415 V Emergency MCC (1DG), 3000 A rating, Approximate Overall Weight (in kg) 15000, Approximate Dimension in mm (LxHxD):18500x2400x1600	SET	1	.0036904
G.1.2	415V, SOOT BLOWER MCC of app. Wt. is 17250 kg, App. Dimension in mm (LxHxD) 19250 x2400 x1000	SET	1	.0038421
B.3.3	415 V Boiler Service PMCC (1DA-3200 A), Approximate Overall Weight (in kg) 12800, Approximate Dimension in mm (LxHxD):20780x2400x(1600/1000)	SET	1	.0041465
B.3.18	415 V FW/Water System PMCC (0DD-3200 A), Approximate Overall Weight (in kg) 12800, Approximate Dimension in mm (LxHxD):23580x2400x(1600/1000)	SET	1	.0046564
II	ERECTION AND COMMISSIONING OF 415 V LT NON SEGREGATED PHASE BUSDUCT			

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
	415 V, LT NSPBD TYPE BUSDUCT 4000A,3200A,2500A, 2000A,1600A & 1000A	Mtrs	272	.0097609
III	LAYING OF LT POWER CABLES 1.1 kV, XLPE INSULATED, GLAVANISED STEEL ARMOURED SINGLE/MULTICORE CABLES FRLS (Al/Cu CABLES)			
A.1.1, A.1.14	1C-400 Sq. mm / 3C-150 sq.mm	Mtrs	15,750	.0069956
A.3.1, A.3.3				
A.1.2	1C-630 sq.mm	Mtrs	29,250	.0141381

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.2.1, A.2.7, C.14.3	1C - 16 sq.mm / 2C - 6 sq.mm	Mtrs	12,650	.0019831
A.1.3, A.1.5, A.1.10 , A.1.21	1C-35 sq.mm / 2C-10 sq.mm / 3C-10 sq.mm / 4C-6 sq.mm / 4C-10 sq.mm	Mtrs	55,050	.0086298
A.1.4, A.1.7, A.3.2	1C-95 sq.mm / 1C-120 sq.mm / 2C-50 sq.mm	Mtrs	7,000	.0019204
A.1.6, D.1.3, G.3.1	2C-25 sq.mm / 3C - 16 Sq.mm	Mtrs	27,300	.003923
A.1.16	3C-25 sq.mm / 3.5C-25 sq.mm / 1C-70 sq.mm / 1C-35 sq.mm	Mtrs	55,000	.0122145
A.2.2, A.2.3, D.12.2				

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at 2 X 660 MW Ennore SEZ Supercritical Thermal Power Project at Ash Dyke of NCTPS

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.1.8, A.1.12	3C - 35 Sq.mm/3C-50 sq.mm / 3.5C-50 sq.mm / 2C-95 sq.mm (Cu)	Mtrs	40,000	.0094058
A.1.17				
A.3.4, D.1.2, D.12.2				
A.1.13	3C-95 sq.mm / 3.5C-95 sq.mm	Mtrs	17,250	.005183
A.1.18 , A.3.5				
A.1.19	3.5C-185 sq.mm (Al)	Mtrs	1,250	.0005715
A.1.9, D.1.1	2C-150 Sq.mm / 2C - 185 Sq.mm	Mtrs	49,000	.0153628
A.1.15	3C-240 sq.mm	Mtrs	11,350	.0035585
D.12.2				
A.1.20	3.5C-300 sq.mm	Mtrs	1,250	.0005715
• •	END TERMINATION OF LT POWER / CONTROL CABLES - 1.1 kV, XLPE INSULATED, GALVANISED STEEL ARMOURED SINGLE/ MULTICORE CABLES FRLS (Al/Cu CABLES) Page 6		SIGNATURE	OF BIDDER WITH SEAL

Tender Specification BHEL:PSSR:SCT:2063 for Package 1: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-1 main plant & identified BOP areas of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.5.2	1C-630 sq.mm	Nos.	390	.0020685
A.5.1, A.6.1	1C-400 Sq. mm	Nos.	172	.0006673
A.5.4	1C-120 sq.mm	Nos.	80	.0002905
A.6.2	1C-95 sq.mm	Nos.	10	.0000363
A.6.3	1C-70 sq.mm	Nos.	20	.0000175
A.5.3, A.6.2	1C-35 sq.mm	Nos.	266	.0001251
A.6.1	1C-16 sq.mm	Nos.	120	.0000423
A.6.4, C.15.1	2C-6 sq.mm	Nos.	50	.0000176
A.5.5	2C-10 sq.mm	Nos.	132	.0002569
A.5.6	2C-25 sq.mm	Nos.	80	.0001735
A.5.7	2C-50 sq.mm	Nos.	4	.0000101
A.5.8, A.6.4	2C-95 sq.mm	Nos.	38	.0001172
D.4.1	2C-150 sq.mm	Nos.	546	.001719
A.5.9	2C-185 sq.mm Page 7	Nos.	108 SIGNATURE	.00034 OF BIDDER WITH SEAL

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.5.10	3C-10 sq.mm	Nos.	410	.0001928
D.4.3, G.5.1	3C-16 sq.mm	Nos.	284	.0007531
A.5.11	3C-25 sq.mm	Nos.	296	.0006844
D.12.3				
D.4.2	3C-35 sq.mm	Nos.	32	.0001158
A.5.12	3C-50 sq.mm	Nos.	186	.0006828
D.12.3				
A.5.13 , A.6.5	3C-95 sq.mm	Nos.	178	.0005558
A.5.14 , A.6.3	3C-150 sq.mm	Nos.	42	.0003243
A.5.15	3C-240 sq.mm	Nos.	152	.0013383
D.12.3				
A.5.16	3.5C-25 sq.mm	Nos.	218	.0005781

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.5.17	3.5C-50 sq.mm	Nos.	278	.0008643
A.5.18	3.5C-95 sq.mm	Nos.	54	.0002003
A.5.19	3.5C-185 sq.mm	Nos.	18	.000155
A.5.20	3.5C-300 sq.mm	Nos.	18	.0002309
C.15.2	4C-6 sq.mm	Nos.	4	.0000011
A.5.21	4C-10 sq.mm	Nos.	120	.0000564
'	LAYING AND TERMINATION OF LT POWER/CONTROL CABLES 1.1 kV, XLPE INSULATED, GALVANISED STEEL ARMOURED SINGLE/ MULTICORE CABLES FRLS (CU CABLES)			

Tender Specification BHEL:PSSR:SCT:2063 for Package 1: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-1 main plant & identified BOP areas of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.2.5, A.3.6, A.3.7, A.4.1, A.4.2, C.14.2	2C - 2.5 sq.mm / 3C-1.5 sq.mm / 3C - 2.5 sq.mm / 5C x 1.5 sqmm	Mtrs	523,650	.0684078
D.2.2, D.12.1 .1, D.12.4 .1, G.2.1, G.4.1				
A.2.6, A.4.3, D.3.1, G.4.2	4C - 2.5 sq.mm / 5C - 2.5 sq.mm / 7C - 2.5 sq.mm	Mtrs	27,150	.0039015

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.4.4, A.4.5, C.14.1	9C-2.5 Sq.mm / 10C - 2.5 Sq.mm /12C - 2.5 sq.mm	Mtrs	82,800	.01298
D.3.2, D.12.4 .2, G.4.3				
D.12.4	19C - 2.5 Sq.mm	Mtrs	2,700	.0005291
VI	LAYING AND TERMINATION OF INSTRUMENTATION CABLES			
B.5.7	OFC cable includes fixing of fibre optic components and termination kits LIU, face plates, cabinets, SC coupler, grounding etc	Mtrs	2,000	.0005748
D.10.6	ALI Signal Cables with GI conduits & Earthwire	SET	2,880	.0003386
D.10.7				
D.10.8				
B.5.8	OFC Cable splicing	Nos.	100	.0001489
C.14.5	8 pair x 0.5 sqmm (Cu)	Mtrs	60	.0000157

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
'	ERECTION OF PRE FABRICATED CABLE TRAYS (LADDER/ PERFORATED TYPE) - GI/FRP with accessories including Single/Double Channel Supports with clamps, Cantilever arms, 90 Deg.Angle fittings, Base plats, Beam Clamps, Flat Plate for tee fittings (PF1),Tray Fixing Clamp (TC1),M10 Anchor Bolts,M6 Bolts, Washers and Spring Nuts,M12 Bolts, Washers and Spring Nuts (wherever required), Tee, Reducer, Bend, Horzontal, Vertical, Cover, Trough etc.			
A.8.1, D.5.1	600 mm wide-GI-Cable Tray Ladder Type	Mtrs	38,675	.064165
A.8.2, D.5.2	450 mm wide-GI Cable Tray Ladder Type	Mtrs	2,387	.0024946
A.8.3, D.5.3	300 mm wide-GI Cable Tray Ladder Type	Mtrs	9,730	.0157616
A.8.4, D.5.4	150 mm wide-GI Cable Tray Ladder Type	Mtrs	8,770	.0083635
A.8.5	50 mm wide-GI Cable Tray Ladder Type	Mtrs	200	.0001515
A.8.6	600 mm wide-GI Cable Tray Perforated Type	Mtrs	16,350	.0339609
A.8.7	450 mm wide-GI Cable Tray Perforated Type	Mtrs	550	.0007185
A.8.8, D.5.5	300 mm wide-GI Cable Tray Perforated Type	Mtrs	4,237	.0072509
A.8.9, D.5.6	150 mm wide-GI Cable Tray Perforated Type	Mtrs	3,320	.0031661

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.8.10	100 mm wide-GI Cable Tray Perforated Type	Mtrs	350	.000224
D.12.5 .3, D.12.6	600 mm wide-FRP Cable Tray LTCT/PTCT	Mtrs	2,355	.0035687
D.12.5 .2, D.12.6 .2	300 mm wide-FRP Cable Tray LTCT/PTCT	Mtrs	300	.0002979
D.12.5 .1, D.12.6 .3	150 mm wide-GI Cable Tray Perforated Type	Mtrs	600	.0005252
A.8.11	50 mm wide-GI Cable Tray Perforated Type	Mtrs	350	.0002881
	ERECTION, TESTING & COMMISSIONING OF 220 V DC BATTERY AND BATTERY CHARGER			
A.10.1	220 V-1285 AH DC Batteries - 216 Cells (2x108)	SET	2	.0015724
A.10.3	220 V-48 AH DC Batteries - 216 Cells (2x108)	SET	2	.0015728
A.10.5	220 V-40 AH DC Batteries - 216 Cells (2x108)	SET	2	.0015731
A.10.2	Float cum Boost battery charger panel and accessories 2100X1000X2200	SET	3	.0014299

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.10.4	Float cum Boost battery charger panel and accessories 800X610X1600	SET	4	.0015252
, A.10.6				
IX	ERECTION AND COMMISSIONING OF DIESEL GENERATOR SET			
C.1, C.2, C.3, C.4, C.5, C.6, C.8, C.9, C.10, C.11, C.12,	2000 KVA (e) 1500 RPM 415 V 0.8 pf (lag) DG set with panels and all accessories (i.e all items mentioned in BOQ Ref) app. Overall Wt. 36 Tonnes	SET	3	.0172319
C.7	Acoustic enclosure with lighting fixtures to meet the noise requirement for one DG (Dismantling type). Approx size 10mx3mx2.5m (h). App.Wt. 5000 kg.	SET	3	.0014219
X	ERECTION AND COMMISSIONING OF INTERMEDIATE SUPPORTING PANELS AND ACCESSORIES/ CONTROL PANEL SYSTEM AND ACCESSORIES			
B.5.6	Data concentrator panels along with loose items size 800mm(W) x800mm(D) x 2000mm(H) aprox weight 200kg	SET	1	.0006775

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Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
D.10.4 , D.10.5	IOS System & Data Logger System with Industrual Grade Computers and accessories	SET	2	.0002773
D.10.3	Electronic Controller Panel (ECP) with ARECA controllers, firing cards, interfacing cables, FR modules and cutout plates	SET	72	.0078162
E.1, E.2, E.3, E.4, F.1	DC Emergency Lube Oil Pump starter panels / Starter Cabinet for DC jacking oil motor / Starter Cabinet for DC seal oil motor / Generator Instrument Cabinet / Gas Analyzer Cabinet / Generator End Winding vibration monitoring cabinet / DC Starter panels /		5	.0011178
G.1.1	Furnace temp. panel	Nos.	2	.0001632
XI	ERECTION OF JUNCTION BOXES / PUSH BUTTON STATIONS/FUSE DBs(AC/DC)			
D.10.2	Junction Boxes	Nos.	234	.0026931
D.12.9 .1, D.12.9 .2, D.12.9				
.3				

Tender Specification BHEL:PSSR:SCT:2063 for Package 1: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-1 main plant & identified BOP areas of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
B.5.1, B.5.2, B.5.3, D.10.1	Pushbutton Stations/Starters	Nos.	727	.0057648
B.5.4, B.5.5	AC/DC Fuse DB	Nos.	18	.0012775
XII	INSTALLATION, TESTING AND COMMISSIONING OF EARTHING SYSTEMS			
A.9.1, D.12.7	GS FLAT 65 x 8 / 75 X 10 mm	Mtrs	2,300	.0035154
A.9.2, D.7.1, D.12.7	GS FLAT 50 X 6 mm	Mtrs	19,840	.0196979
A.9.3, A.9.4, D.7.2, D.12.7	GS FLAT 25 X 3 /25 X 6 /30 X 5mm	Mtrs	11,285	.0098774
A.9.5, D.7.3, D.12.7	GS WIRE 8 SWG	Mtrs	4,770	.0002493

Tender Specification BHEL:PSSR:SCT:2063 for Package 1: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-1 main plant & identified BOP areas of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
	GS Rod 20 mm dia LONG 1000 mm vertical air termination, Test links (150 x 25 x 6), Flexible copper conductor, 50mm GI class C pipe 3 mtr long	SET	90	.0040139
A.9.6	Flexible braided copper conductor with copper clamp for gate earthing	Nos.	15	.0000431
XIII	FABRICATION & ERECTION OF STRUCTURAL STEEL			
D.6.2. 1, D.6.2. 2, D.6.2. 3, D.12.8 .1, D.12.8	Structural Steel (ISMC, ISMB, ISA, etc)	MT	38.85	.0086873
XIV	ERECTION AND COMMISSIONING OF INSTRUMENTATION			
D.10.3	ALI with probe head assembly, sensor processor unit and accessories	SET	144	.0026938
	COMMISSIONING OF THE FOLLOWING ERECTED BY MECHANICAL CONTRACTOR			

Tender Specification BHEL:PSSR:SCT:2063 for Package 1: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-1 main plant & identified BOP areas of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.12.1	Local Control Panels of Dosing Systems & FOPH	Nos.	6	.000196
, A.12.2				
A.12.3				
A.12.4				
A.12.5				
,	High Voltage Rectifier Transformers- 95 kV, 1200 mA & Disconnecting Switches	SET	72	.0058025
D.11.2				
,	Heating Elements for Hoppers//Shaft Insulators/Support Insulators & Thermostats for Hopper	Nos.	2,240	.0081643
D.11.6				
D.11.7	Interlocks ESP panels/field with Master keys	SET	72	.0023214

Tender Specification BHEL:PSSR:SCT:2063 for Package 1: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-1 main plant & identified BOP areas of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
A.12.6	LT Unidirectional & Bidirectional drives (0.2 kW to 110 kW)	Nos.	1,055	.0108879
D.11.3				
D.11.4				
D.12.1 0.1, D.12.1 0.2, D.12.1 0.3				

Tender Specification BHEL:PSSR:SCT:2063 for Package-2: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-2 main plant of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
I	ERECTION AND COMMISSIONING OF LT SWITCHGEAR ACDB/DCDB/MCC/PMCC			
J.3.5	415 V ESP &ID Fan area MCC (2HC-400 A), Approximate Overall Weight (in kg) 3000, Approximate Dimension in mm (LxHxD):5100x2400x1000	SET	1	.0010141
J.3.1, J.3.6	415 V DG PCC (2DH-3000 A)/415 V ESP A/C & Ventilation MCC (2TB-400 A), Approximate Overall Weight (in kg) 6000/3000, Approximate Dimension in mm (LxHxD):6000/5950x2400x1600		2	.0023862
J.2.3, J.3.9	415 V Service ACDB (2QA-630 A)/415 V Air Washer (2SA-630 A), Approximate Overall Weight (in kg) 8500/12800, Approximate Dimension in mm (LxHxD):8200/8250x2400x(600/400/1000)		2	.0033805
J.1.1, J.2.2, J.3.8, J.3.10, J.3.11	220V MAIN DCDB (2FA-1600 A) / 415 V Boiler ACDB (2HB-400 A)/ Service Building & AC Vent. MCC (0TB-1000 A)/ Ventilation MCC (2TA-1000 A)/ Misc Service MCC (0QB-630 A), Approximate Overall Weight (in kg)11250/ 8500/10500, Approximate Dimension in mm (LxHxD): 9500 x 2400 x 600		5	.0094455
J.3.7	415 V Station Services PMCC (0DB-4000 A), Approximate Overall Weight (in kg) 9000, Approximate Dimension in mm (LxHxD):13780x2400x(1600/1000)	SET	1	.0026899
J.2.1	415 V Boiler Valve & Damper ACDB (2HA-250 A), Approximate Overall Weight (in kg) 8500, Approximate Dimension in mm (LxHxD):14450x2400x600/1600/1000	SET	1	.0028207
K.8.1	415 V, 2000 A, ESP-LTMSB-App.Overall Wt. of 13000 kg, App. Dimension in mm (LxHxD) 15850x2450x1700	SET	4	.0124622
J.2.4	415 V Turbine Valve DB (2KA-250 A), Approximate Overall Weight (in kg) 9500, Approximate Dimension in mm (LxHxD):16500x2400x600	SET	1	.0032594
J.3.4	415 V Turbine Service PMCC (2DB-2500 A) Approximate Overall Weight (in kg) 12000, Approximate Dimension in mm (LxHxD):17530x2400x(1600x1000)	SET	1	.0035179

Tender Specification BHEL:PSSR:SCT:2063 for Package-2: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-2 main plant of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
J.3.2	415 V Emergency MCC (2DG), 3000 A rating, Approximate Overall Weight (in kg) 15000, Approximate Dimension in mm (LxHxD):18500x2400x1600	SET	1	.0036826
N.1.2	415V, SOOT BLOWER MCC of App. Wt. is 17250 kg, App. Size in mm (LxHxD) 19250x2400x1000	SET	1	.0038627
J.3.3	415 V Boiler Service PMCC (2DA-3200 A), Approximate Overall Weight (in kg) 12800, Approximate Dimension in mm (LxHxD):20180x2400x(1600/1000)	SET	1	.0040129
II	ERECTION AND COMMISSIONING OF 415 V LT NON SEGREGATED PHASE BUSDUCT			
J.4.1, J.4.2, J.4.3, J.4.4, J.4.5, J.4.6, J.4.7	415 V, LT NSPBD TYPE BUSDUCT 4000A,3200A,2500A, 2000A,1600A & 1000A	Mtrs	128	.0045934
III	LAYING OF LT POWER CABLES 1.1 kV, XLPE INSULATED, GLAVANISED STEEL ARMOURED SINGLE/MULTICORE CABLES FRLS (Al/Cu CABLES)			
H.1.1, H.1.14	1C-400 Sq. mm / 3C-150 sq.mm	Mtrs	15,750	.0069956
H.3.1, H.3.3				
H.1.2	1C-630 sq.mm	Mtrs	29,250	.0141381

Tender Specification BHEL:PSSR:SCT:2063 for Package-2: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-2 main plant of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
1C - 16 sq.mm / 2C - 6 sq.mm	Mtrs	12,500	.0019595
1C-35 sq.mm / 2C-10 sq.mm / 3C-10 sq.mm / 4C-6 sq.mm / 4C-10 sq.mm	Mtrs	54,750	.0085828
1C-95 sq.mm / 1C-120 sq.mm / 2C-50 sq.mm	Mtrs	7,000	.0019204
2C-25 sq.mm / 3C - 16 Sq.mm	Mtrs	27,300	.003923
3C-25 sq.mm / 3.5C-25 sq.mm / 1C-70 sq.mm / 1C-35 sq.mm	Mtrs	53,000	.0117703
	1C - 16 sq.mm / 2C - 6 sq.mm 1C-35 sq.mm / 2C-10 sq.mm / 3C-10 sq.mm / 4C-6 sq.mm / 4C-10 sq.mm	Measurement Mtrs	Measurement 12,500 1C - 16 sq.mm / 2C - 6 sq.mm Mtrs 12,500 1C - 35 sq.mm / 2C - 10 sq.mm / 3C - 10 sq.mm / 4C - 6 sq.mm / 4C - 10 sq.mm Mtrs 54,750 1C - 95 sq.mm / 1C - 120 sq.mm / 2C - 50 sq.mm Mtrs 7,000 2C - 25 sq.mm / 3C - 16 Sq.mm Mtrs 27,300 27,

Tender Specification BHEL:PSSR:SCT:2063 for Package-2: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-2 main plant of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
H.1.8, H.1.12	3C - 35 Sq.mm/3C-50 sq.mm / 3.5C-50 sq.mm / 2C-95 sq.mm (Cu)	Mtrs	34,500	.0081125
H.1.17				
H.3.4, K.1.2				
H.1.13	3C-95 sq.mm / 3.5C-95 sq.mm	Mtrs	17,250	.005183
H.1.18 , H.3.5				
H.1.19	3.5C-185 sq.mm (Al)	Mtrs	1,250	.0005715
H.1.9, K.1.1	2C-150 Sq.mm / 2C - 185 Sq.mm	Mtrs	49,000	.0153628
H.1.15	3C-240 sq.mm	Mtrs	9,250	.0029001
H.1.20	3.5C-300 sq.mm	Mtrs	1,250	.0005715
IV	END TERMINATION OF LT POWER / CONTROL CABLES - 1.1 kV, XLPE INSULATED, GALVANISED STEEL ARMOURED SINGLE/ MULTICORE CABLES FRLS (Al/Cu CABLES)			
H.5.2	1C-630 sq.mm	Nos.	390	.0020685
H.5.1, H.6.1	1C-400 Sq. mm	Nos.	172	.0006673

Tender Specification BHEL:PSSR:SCT:2063 for Package-2: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-2 main plant of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
H.5.4	1C-120 sq.mm	Nos.	80	.0002905
H.6.2	1C-95 sq.mm	Nos.	10	.0000363
H.6.3	1C-70 sq.mm	Nos.	20	.0000175
H.5.3, H.6.2	1C-35 sq.mm	Nos.	266	.0001251
H.6.1	1C-16 sq.mm	Nos.	120	.0000423
H.6.4	2C-6 sq.mm	Nos.	48	.0000169
H.5.5	2C-10 sq.mm	Nos.	132	.0002569
H.5.6	2C-25 sq.mm	Nos.	80	.0001735
H.5.7	2C-50 sq.mm	Nos.	4	.0000101
H.5.8, H.6.4	2C-95 sq.mm	Nos.	38	.0001172
K.4.1	2C-150 sq.mm	Nos.	546	.001719
H.5.9	2C-185 sq.mm	Nos.	108	.00034
H.5.10	3C-10 sq.mm	Nos.	410	.0001928
K.4.3, N.5.1	3C-16 sq.mm	Nos.	284	.0007531

Tender Specification BHEL:PSSR:SCT:2063 for Package-2: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-2 main plant of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
H.5.11	3C-25 sq.mm	Nos.	270	.0006243
K.4.2	3C-35 sq.mm	Nos.	32	.0001158
H.5.12	3C-50 sq.mm	Nos.	114	.0004185
H.5.13 , H.6.5	3C-95 sq.mm	Nos.	178	.0005558
H.5.14 , H.6.3	3C-150 sq.mm	Nos.	42	.0003243
H.5.15	3C-240 sq.mm	Nos.	124	.0010918
H.5.16	3.5C-25 sq.mm	Nos.	218	.0005781
H.5.17	3.5C-50 sq.mm	Nos.	278	.0008643
H.5.18	3.5C-95 sq.mm	Nos.	54	.0002003
H.5.19	3.5C-185 sq.mm	Nos.	18	.000155
H.5.20	3.5C-300 sq.mm	Nos.	18	.0002309
H.5.21	4C-10 sq.mm	Nos.	120	.0000564
V	LAYING AND TERMINATION OF LT POWER/CONTROL CABLES 1.1 kV, XLPE INSULATED, GALVANISED STEEL ARMOURED SINGLE/ MULTICORE CABLES FRLS (CU CABLES)			

Tender Specification BHEL:PSSR:SCT:2063 for Package-2: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-2 main plant of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
H.2.4, H.2.5, H.3.6, H.3.7, H.4.1, H.4.2, K.2.1, K.2.2, N.2.1, N.4.1	2C - 2.5 sq.mm / 3C-1.5 sq.mm / 3C - 2.5 sq.mm / 5C x 1.5 sqmm	Mtrs	489,500	.0639465
H.2.6, H.4.3, K.3.1, N.4.2	4C - 2.5 sq.mm / 5C - 2.5 sq.mm / 7C - 2.5 sq.mm	Mtrs	27,150	.0039015
H.4.4, H.4.5, K.3.2, N.4.3	9C-2.5 Sq.mm / 10C - 2.5 Sq.mm /12C - 2.5 sq.mm	Mtrs	73,000	.0114438
VI	LAYING AND TERMINATION OF INSTRUMENTATION CABLES			
	OFC cable includes fixing of fibre optic components and termination kits LIU, face plates, cabinets, SC coupler, grounding etc	Mtrs	2,000	.0005748

Tender Specification BHEL:PSSR:SCT:2063 for Package-2: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-2 main plant of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
K.10.6	ALI Signal Cables with GI conduits & Earthwire	SET	2,880	.0003386
K.10.7				
, K.10.8				
J.5.8	OFC Cable splicing	Nos.	100	.0001489
VII	ERECTION OF PRE FABRICATED CABLE TRAYS (LADDER/ PERFORATED TYPE) - GI/FRP with accessories including Single/Double Channel Supports with clamps, Cantilever arms, 90 Deg.Angle fittings, Base plats, Beam Clamps, Flat Plate for tee fittings (PF1),Tray Fixing Clamp (TC1),M10 Anchor Bolts,M6 Bolts, Washers and Spring Nuts,M12 Bolts, Washers and Spring Nuts (wherever required), Tee, Reducer, Bend, Horzontal, Vertical, Cover, Trough etc.			
H.8.1, K.5.1	600 mm wide-GI-Cable Tray Ladder Type	Mtrs	38,675	.064165
H.8.2, K.5.2	450 mm wide-GI Cable Tray Ladder Type	Mtrs	2,387	.0024946
H.8.3, K.5.3	300 mm wide-GI Cable Tray Ladder Type	Mtrs	9,730	.0157616
H.8.4, K.5.4	150 mm wide-GI Cable Tray Ladder Type	Mtrs	8,770	.0083635
H.8.5	50 mm wide-GI Cable Tray Ladder Type	Mtrs	200	.0001515
H.8.6	600 mm wide-GI Cable Tray Perforated Type	Mtrs	16,350	.0339609

Tender Specification BHEL:PSSR:SCT:2063 for Package-2: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-2 main plant of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
H.8.7	450 mm wide-GI Cable Tray Perforated Type	Mtrs	550	.0007185
H.8.8, K.5.5	300 mm wide-GI Cable Tray Perforated Type	Mtrs	4,237	.0072509
H.8.9, K.5.6	150 mm wide-GI Cable Tray Perforated Type	Mtrs	3,320	.0031661
H.8.10	100 mm wide-GI Cable Tray Perforated Type	Mtrs	350	.000224
H.8.11	50 mm wide-GI Cable Tray Perforated Type	Mtrs	350	.0001783
VIII	ERECTION, TESTING & COMMISSIONING OF 220 V DC BATTERY AND BATTERY CHARGER			
H.10.1	220 V-1285 AH DC Batteries - 216 Cells (2x108)	SET	2	.0015724
H.10.2	Float cum Boost battery charger panel and accessories 2100X1000X2200	SET	3	.0014299
IX	ERECTION AND COMMISSIONING OF INTERMEDIATE SUPPORTING PANELS AND ACCESSORIES/ CONTROL PANEL SYSTEM AND ACCESSORIES			
J.5.6	Data concentrator panels along with loose items size 800mm(W) x800mm(D) x 2000mm(H) aprox weight 200kg	SET	1	.0006775
K.10.4	IOS System & Data Logger System with Industrual Grade Computers and accessories	SET	2	.0002773
, K.10.5				
111.7.1	Electronic Controller Panel (ECP) with ARECA controllers, firing cards, interfacing cables, FR modules and cutout plates	SET	72	.0078162

Tender Specification BHEL:PSSR:SCT:2063 for Package-2: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-2 main plant of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
L.2.	DC Emergency Lube Oil Pump starter panels / Starter Cabinet for DC jacking oil motor / Starter Cabinet for DC seal oil motor / Generator Instrument Cabinet / Gas Analyzer Cabinet / Generator End Winding vibration monitoring cabinet / DC Starter panels /	Nos.	5	.0011178
N.1.1	Furnace temp. panel	Nos.	2	.0001632
	ERECTION OF JUNCTION BOXES / PUSH BUTTON STATIONS/FUSE DBs(AC/DC)			
K.10.2	Junction Boxes	Nos.	140	.0016113
J.5.1, J.5.2, J.5.3, K.10.1	Pushbutton Stations/Starters	Nos.	727	.0057648
J.5.4, J.5.5	AC/DC Fuse DB	Nos.	18	.0012775
XI	INSTALLATION, TESTING AND COMMISSIONING OF EARTHING SYSTEMS			
H.9.1	GS FLAT 65 x 8 mm	Mtrs	2,100	.0032097
H.9.2, K.7.1	GS FLAT 50 X 6 mm	Mtrs	16,965	.0168435

Tender Specification BHEL:PSSR:SCT:2063 for Package-2: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-2 main plant of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
H.9.3, H.9.4, K.7.2	GS FLAT 25 X 3 /25 X 6 /30 X 5mm	Mtrs	9,935	.0086958
H.9.5, K.7.3	GS WIRE 8 SWG	Mtrs	3,950	.0002064
H.11.1	GS Rod 20 mm dia LONG 1000 mm vertical air termination, Test links (150 x 25 x 6), Flexible copper conductor, 50mm GI class C pipe 3 mtr long	SET	80	.0035679
H.9.6	Flexible braided copper conductor with copper clamp for gate earthing	Nos.	15	.0000431
XII	FABRICATION & ERECTION OF STRUCTURAL STEEL			
K.6.1, K.6.2, K.6.3	Structural Steel (ISMC, ISMB, ISA, etc)	MT	29.85	.0066748
XIII	ERECTION AND COMMISSIONING OF INSTRUMENTATION			
K.10.3	ALI with probe head assembly, sensor processor unit and accessories	SET	144	.0026938
XIV	COMMISSIONING OF THE FOLLOWING ERECTED BY MECHANICAL CONTRACTOR			

Tender Specification BHEL:PSSR:SCT:2063 for Package-2: Erection, Testing & Commissioning including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting of LT Electrical works for Unit-2 main plant of 2 x 660MW Ennore SEZ Super Critical Thermal Power Project at Ash Dyke of NCTPS, TamilNadu.

Ref.No.	Description	Unit of Measurement	Qty.	Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount
H.12.1	Local Control Panels of Dosing Systems & FOPH	Nos.	6	.000196
H.12.2				
H.12.3				
H.12.4				
, H.12.5				
K.11.1 , K.11.2	High Voltage Rectifier Transformers- 95 kV, 1200 mA & Disconnecting Switches	SET	72	.0058025
K.11.5	Heating Elements for Hoppers//Shaft Insulators/Support Insulators & Thermostats for Hopper	Nos.	2,240	.0081643
K.11.7	Interlocks ESP panels/field with Master keys	SET	72	.0023214
H.12.6	LT Unidirectional & Bidirectional drives (0.2 kW to 110 kW)	Nos.	956	.0098662
, K.11.3				
, K.11.4				
TOTAL	Weightage			1.0
	Раде 31			OF RIDDER WITH SEAL