

**TENDER SPECIFICATION
BHEL: PSSR: SCT: 2034**

FOR

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 # 5 of 5x800 MW Yadadri Thermal Power Plant at Veerlapalem Village, Damercherla Mandal, Nalgonda DT., TSGENCO, Telangana, India.

**VOLUME – II
PRICE BID**



BHARAT HEAVY ELECTRICALS LIMITED

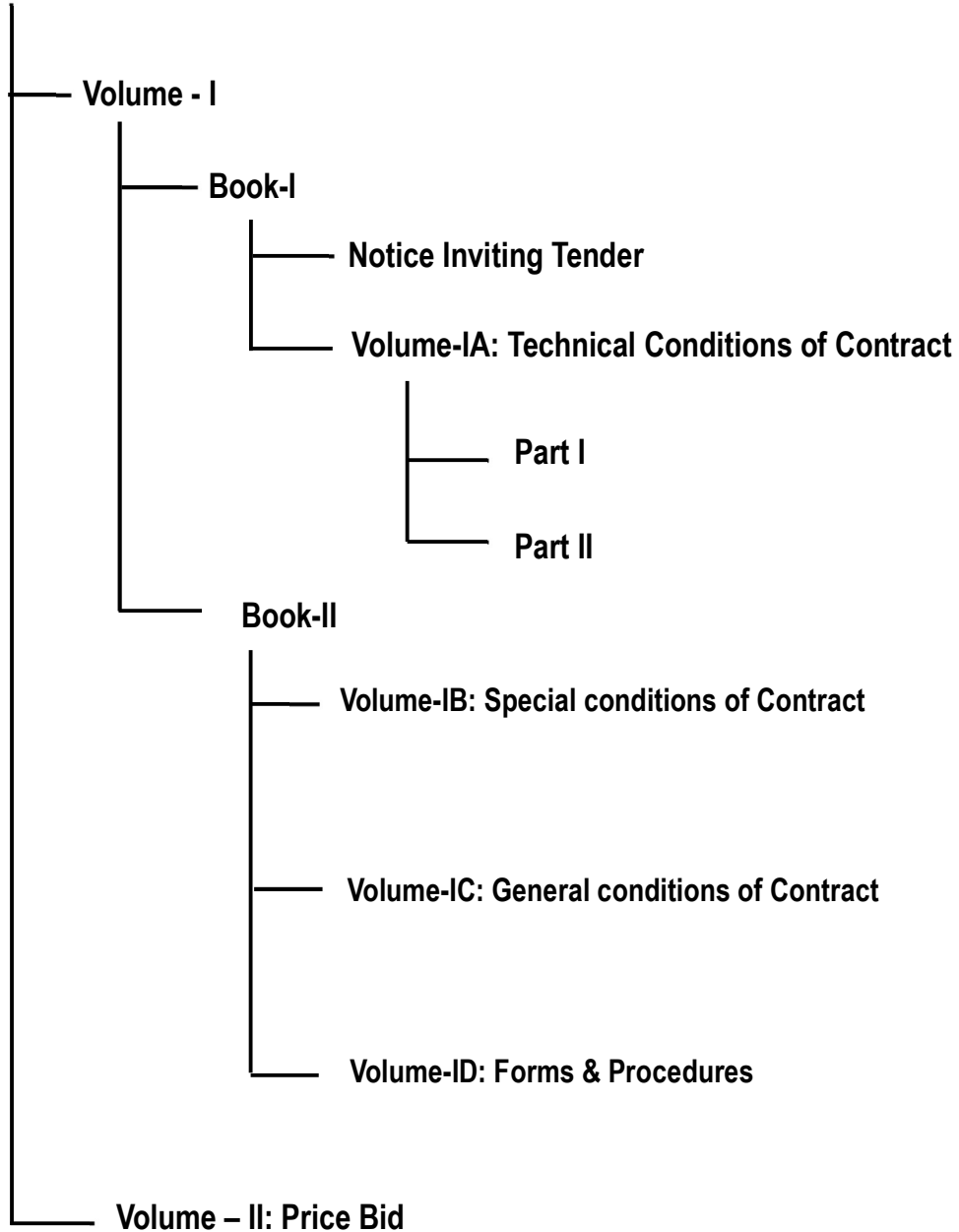
(A Government of India Undertaking)

Power Sector – Southern Region

Tek Towers, No.11, Old Mahabalipuram Road,
Okkiyam Thoraipakkam, Chennai - 600097

TENDER SPECIFICATION CONSISTS OF

Tender Specification



PRICE BID

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PART A

Instruction to Bidders:

1. The quantity indicated in the BOQ in Part C of Price Bid is approximate only and is liable for variation. Payment will be as per actual quantity executed and 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 of Price Bid.
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 Sl. 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 as certified by BHEL Engineer.
9. Bidders to also refer Terms of Payment in Chapter VII of Volume IA Part I, Technical Conditions of Contract.

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2034 for 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-5 of 5 x 800MW Yadadri Thermal Power Plant at Veerlapalem village, Dameracherla Mandal, Nalgonda DT TSGENCO, Telangana

at 5 X 800 MW Yadadri TPS

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.1.1, G.1.3	220V MAIN DCDB (5FA-Rating 1600 A) & SOOT BLOWER MCC, Approximate Overall Weight (in kg) 17000/14000, Approximate Dimension in mm (LxHxD): 22000/22100 x 2425/2550 x 1300/1000, No. of Panels: 23/26 & No. of Shipping Sections: 12/13	SET	2	.0134224
B.2.1	NDCT -5 ACDB , rating 200A, Approximate Overall Weight (in kg)1300, Approximate Dimension in mm (LxHxD): 1700 x 2425 x 900, No. of Panels: 2 & No. of Shipping Sections: 1	SET	1	.0006522
B.2.2	415V UNIT TURBINE VALVE DB (5KA), rating 400A, Approximate Overall Weight (in kg) 16250, Approximate Dimension in mm (LxHxD): 21250 X 2425 X 900, No. of Panels: 25 & No. of Shipping Sections: 13	SET	1	.0081526
B.2.3	415V UNIT BOILER VALVE & DAMPER DB (5HA), rating 400A, Approximate Overall Weight (in kg) 14950, Approximate Dimension in mm (LxHxD): 17850 X 2300 X 1000, No. of Panels: 21 & No. of Shipping Sections: 10	SET	1	.0068016
B.2.7, B.2.4	STORE ACDB (0SE- Rating 250A) & 415V UNIT BOILER ACDB (5HB-Rating 630 A), Approximate Overall Weight (in kg) 12750/8750, Approximate Dimension in mm (LxHxD): 10500/10700 x 2300/2425 x 1000/1300, No. of Panels: 12/13 & No. of Shipping Sections: 5/7	SET	2	.008212
B.2.5	415V ESP & ID FAN AREA DB (5HD), rating 400A, Approximate Overall Weight (in kg) 3900, Approximate Dimension in mm (LxHxD): 6800 X 2425 X 900, No. of Panels: 8 & No. of Shipping Sections: 4	SET	1	.0026316

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at 5 X 800 MW Yadadri TPS

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.8.1, B.2.6, B.3.7, B.3.9, D.8.2	415 V AUXILIARY CONTROL BOARD (ACP-Rating 630A), 415V UNIT SERVICE ACDB (5QA-Rating 630A), 415V AIR CONDITIONING MCC (OTC- Rating 1600A), 415V STATION SERVICE PMCC-2 (ODL- Rating 4000A) & 415V LT MAIN SWITCH BOARD (LTMSB-Rating-4000 A), Approximate Overall Weight (in kg) 8100/10050/10500/10800/11000, Approximate Dimension in mm (LxHxD): 12125/12400/12450/12650 X 2425 X 1300/1500/1600, No. of Panels: 14/15/13/13 & No. of Shipping Sections: 7/8	SET	11	.0507252
B.3.1	415V UNIT BOILER SERVICE PMCC (5DA), rating 4000A, Approximate Overall Weight (in kg) 16650, Approximate Dimension in mm (LxHxD): 20400 X 2400 X 1500, No. of Panels: 24 & No. of Shipping Sections: 13	SET	1	.0078483
B.3.2	415V UNIT TURBINE SERVICE PMCC (5DB), rating 4000A, Approximate Overall Weight (in kg) 21900, Approximate Dimension in mm (LxHxD): 23950 X 2425 X 1600, No. of Panels: 30 & No. of Shipping Sections: 15	SET	1	.0092062
B.3.3	415V UNIT EMERGENCY MCC (5DG), rating 3200A, Approximate Overall Weight (in kg) 21750, Approximate Dimension in mm (LxHxD): 24700 X 2425 X 1600, No. of Panels: 30 & No. of Shipping Sections: 15	SET	1	.0094473
B.3.4, B.3.8	415V VENTILATION MCC (5TA-Rating 1600A) & 415V MISC SERVICES MCC (0QE-Rating 630A), Approximate Overall Weight (in kg) 13500/13950, Approximate Dimension in mm (LxHxD): 14600 X 2400/2425 X 1000/1300, No. of Panels: 17 & No. of Shipping Sections: 7/9	SET	2	.0110339
B.3.5	415V ESP AC & VENT MCC (5TB), rating 400A, Approximate Overall Weight (in kg) 6750, Approximate Dimension in mm (LxHxD): 8550 X 2425 X 900, No. of Panels: 9 & No. of Shipping Sections: 5	SET	1	.0032801
B.3.10, B.3.6	415V CPU STAGE-II MCC (0WB Rating 630A) & 415V STATION SERVICE PMCC-1 (ODK - Rating 4000A), Approximate Overall Weight (in kg) 11050/8950, Approximate Dimension in mm (LxHxD): 13350/13400 x 2425 x 1300, No. of Panels: 14/15 & No. of Shipping Sections: 7/8	SET	2	.0100899

Part C : Bill of Quantities

Tender Specification BHEL:PSSR:SCT:2034 for 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-5 of 5 x 800MW Yadadri Thermal Power Plant at Veerlapalem village, Dameracherla Mandal, Nalgonda DT TSGENCO, Telangana

at 5 X 800 MW Yadadri TPS

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.3.11	415V ETP SERVICE PMCC (ODT), rating 4000A, Approximate Overall Weight (in kg) 24750, Approximate Dimension in mm (LxHxD): 30550 x 2425 x 1600, No. of Panels: 32 & No. of Shipping Sections: 16	SET	1	.0117207
B.3.13 , B.3.12	415V WORKSHOP MCC (0SA-Rating 630A) & 415V STP MCC (0WG-Rating 400A) , Approximate Overall Weight (in kg) 7300/6000, Approximate Dimension in mm (LxHxD): 7500/7600 x 2400/2425 x 1000/900, No. of Panels: 9/8 & No. of Shipping Sections: 3/4	SET	2	.005812
II	ERECTION AND COMMISSIONING OF 415 V LT NON SEGREGATED PHASE BUSDUCT	--		
B.4.17 , B.4.18 , B.4.19 , B.4.20 , B.4.21 , B.4.22 , B.4.23 , B.4.24	415 V, LT NSPBD TYPE BUSDUCT 4000A,3200A,2500A,1600A & 1000A	Mtrs	32	.0021887
III	LAYING OF LT POWER CABLES 1.1 kV, XLPE INSULATED, GLAVANISED STEEL ARMoured SINGLE/MULTICORE CABLES FRLS (Al/Cu CABLES)	--		

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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.1.1, A.1.13 , A.3.1	1C-400 Sq. mm / 3C-150 sq.mm	Mtrs	41,600	.0355668
A.1.2	1C-630 sq.mm	Mtrs	30,700	.0285636
A.1.3, A.1.5, A.1.9, A.1.20	1C-35 sq.mm / 2C-10 sq.mm / 3C-10 sq.mm / 4C-10 sq.mm	Mtrs	80,800	.0243818
A.1.4, A.1.7	1C-120 sq.mm / 2C-50 sq.mm	Mtrs	2,200	.0011618
A.1.6, D.1.4, G.3.1	2C-25 sq.mm / 3C - 16 Sq.mm	Mtrs	25,400	.0070258
A.1.10 , A.1.16 ,	3C-25 sq.mm / 3.5C-25 sq.mm	Mtrs	41,400	.0166568

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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.1.8, A.1.11 , A.1.17 , A.3.2, D.1.3,	3C-50 sq.mm / 3.5C-50 sq.mm / 2C-95 sq.mm (Cu)	Mtrs	14,300	.0068322
A.1.12 , A.1.18	3C-95 sq.mm / 3.5C-95 sq.mm	Mtrs	14,600	.0084441
A.1.14 , A.1.19	3C-185 sq.mm (Al) / 3.5C-185 sq.mm (Al)	Mtrs	4,400	.0038725
A.1.15 , A.3.3, D.1.1, D.1.2	3C-240 sq.mm / 3.5C-240 Sq.mm / 2C-150 Sq.mm	Mtrs	53,800	.0324688
IV	END TERMINATION OF LT POWER / CONTROL CABLES - 1.1 kV, XLPE INSULATED, GALVANISED STEEL ARMoured SINGLE/ MULTICORE CABLES FRLS (Al/Cu CABLES)	--		
A.5.1	1C-400 Sq. mm	Nos.	384	.0028968
A.5.2	1C-630 sq.mm	Nos.	410	.0042065

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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.5.3	1C-35 sq.mm	Nos.	54	.0000489
A.5.4	1C-120 sq.mm	Nos.	14	.0000961
A.5.5	2C-10 sq.mm	Nos.	86	.0003265
A.5.6	2C-25 sq.mm	Nos.	61	.0002546
A.5.7	2C-50 sq.mm	Nos.	16	.0000772
A.5.8	2C-95 sq.mm	Nos.	14	.0000813
A.5.9	3C-10 sq.mm	Nos.	804	.000748
A.5.10	3C-25 sq.mm	Nos.	540	.0024035
A.5.11	3C-50 sq.mm	Nos.	118	.0008368
A.5.12	3C-95 sq.mm	Nos.	182	.0011075
A.5.13	3C-150 sq.mm	Nos.	80	.001201
A.5.14	3C-185 sq.mm	Nos.	38	.0005695
A.5.15	3C-240 sq.mm	Nos.	108	.0018332
A.5.16	3.5C-25 sq.mm	Nos.	14	.0000711
A.5.17	3.5C-50 sq.mm	Nos.	14	.0000838
A.5.18	3.5C-95 sq.mm	Nos.	14	.0000986

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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.5.19	3.5C-185 sq.mm	Nos.	22	.0003646
A.5.20	4C-10 sq.mm	Nos.	136	.0001265
A.6.1	1C-400 sq.mm	Nos.	92	.0006825
A.6.2	2C-95 sq.mm	Nos.	14	.0000831
A.6.3	3CX240 sq.mm	Nos.	8	.0001308
D.4.1	3.5C-240 Sq.mm	Nos.	16	.0003215
D.4.2	2C-150 Sq.mm	Nos.	588	.0035782
D.4.3,	3C - 50 Sq.mm	Nos.	34	.0002214
D.4.4, G.5.1	3C - 16 Sq.mm	Nos.	278	.0014331
V	LAYING AND TERMINATION OF LT POWER/CONTROL CABLES 1.1 kV, XLPE INSULATED, GALVANISED STEEL ARMoured SINGLE/ MULTICORE CABLES FRLS (CU CABLES)	--		

Part C : Bill of Quantities

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at 5 X 800 MW Yadadri TPS

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.2.2, A.3.5, C.14.2 , C.14.3 , D.2.1, D.2.2, D.3.1, D.3.2, G.2.1, G.4.1	2C - 2.5 sq.mm / 3C - 2.5 sq.mm / 4C x 2.5 sqmm	Mtrs	321,350	.0808073
A.2.3, A.3.4, A.4.1, A.4.2, A.4.3, G.4.2, G.4.3	2C - 6 sq.mm / 5C - 2.5 sq.mm / 5C - 4 sq.mm / 7C - 2.5 sq.mm	Mtrs	173,400	.0479639
A.4.4, C.14.1 , D.3.3, G.4.4, G.4.5	12C - 2.5 sq.mm / 10C - 2.5 Sq.mm / 9C-2.5 Sq.mm	Mtrs	69,500	.0209719

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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
VI	LAYING AND TERMINATION OF INSTRUMENTATION CABLES	--		
B.5.9	OFC cable includes fixing of fibre optic components and termination kits LIU, face plates,cabinets,SC coupler,grounding etc	Mtrs	20,000	.0110643
D.10.6 , D.10.7	ALI Signal Cables with GI conduits	Mtrs	3,800	.00086
B.5.10	OFC Cable splicing	Nos.	100	.0002917
C.14.4	24 pair x 0.5 sqmm (Cu)	Mtrs	50	.0000289
VII	ERECTION OF PRE FABRICATED CABLE TRAYS AND ACCESSORIES LIKE BEND, TEE, ELBOW, CROSS & REDUCERS ETC.	--		
A.7.1, D.5.1	600 mm wide-Cable Tray Ladder Type	Mtrs	35,950	.0949206
A.7.2, D.5.2	450 mm wide-Cable Tray Ladder Type	Mtrs	2,713	.0045709
A.7.3, D.5.3	300 mm wide-Cable Tray Ladder Type	Mtrs	9,913	.0256753
A.7.4, D.5.4	150 mm wide-Cable Tray Ladder Type	Mtrs	10,668	.0163638
A.7.5	600 mm wide-Cable Tray Perforated Type	Mtrs	11,400	.03784
A.7.6	450 mm wide-Cable Tray Perforated Type	Mtrs	440	.0009073

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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.7.7	300 mm wide-Cable Tray Perforated Type	Mtrs	4,600	.0124926
A.7.8	150 mm wide-Cable Tray Perforated Type	Mtrs	2,840	.0043563
A.7.9	100 mm wide-Cable Tray Perforated Type	Mtrs	2,000	.002062
VIII	ERECTION, TESTING & COMMISSIONING OF 220 V DC BATTERY AND BATTERY CHARGER	--		
A.10.1	220 V DC Batteries - 324 Cells (3x108)	SET	2	.0045506
A.10.2	Float cum Boost battery charger panel and accessories	SET	5	.004625
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, C.13	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.	SET	2	.0212051
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	2	.0019024

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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
X	ERECTION AND COMMISSIONING OF INTERMEDIATE SUPPORTING PANELS AND ACCESSORIES/ CONTROL PANEL SYSTEM AND ACCESSORIES	--		
B.5.8	Data concentrator panels along with loose items size 800mm(W) x800mm(D) x 2000mm(H) aprox weight 200kg	SET	1	.0013367
D.9.1	ALI Control Panel with ALI controllers and Intelli Relay Cards	SET	4	.0009319
D.10.3	ALI with probe head assembly, sensor processor unit and accessories	SET	80	.0028405
D.10.4	IOS System & Data Logger System with Industrial Grade Computers and accessories	SET	2	.0005373
D.10.5				
D.9.2	Electronic Controller Panel (ECP) with ARECA controllers, firing cards, interfacing cables, FR modules and cutout plates	SET	80	.0167112
E.1, E.2, E.3, E.4, E.5, E.6, F.8.1	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 /	Nos.	7	.0030199
G.1.1	DC Scanner fan starter panels	Nos.	1	.0002076
G.1.2	Furnace temp. panel	Nos.	2	.000316

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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
XI	ERECTION OF JUNCTION BOXES / PUSH BUTTON STATIONS	--		
D.10.2 , D.10.8 , D.10.9	Junction Boxes	Nos.	165	.0036554
B.5.1, B.5.2, B.5.3, B.5.4, B.5.5, D.10.1	Pushbutton Stations/Starters	Nos.	784	.0119865
B.5.6, B.5.7	AC/DC Fuse DB	Nos.	12	.0016397
XII	INSTALLATION OF HOT DIP GALVANIZED STEEL FLATS/ GS WIRES	--		
A.9.1, D.7.1	GS FLAT 75 X 10 mm	Mtrs	10,600	.0311863
A.9.2, D.7.2	GS FLAT 50 X 6 mm	Mtrs	18,800	.0368744
A.9.3	GS FLAT 25 X 6 mm	Mtrs	1,600	.0026152
A.9.4	GS FLAT 25 X 3 mm	Mtrs	333	.0005862

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A.9.5, D.7.3	GS WIRE 8 SWG	Mtrs	19,140	.0019252
A.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	60	.0051313
A.9.6	Flexible braided copper conductor with copper clamp for gate earthing	Nos.	15	.0000841
XIII	FABRICATION & ERECTION OF STRUCTURAL STEEL	--		
A.8.1, A.8.2, A.8.3, A.8.4, D.6.1, D.6.2, D.6.3	Structural Steel (ISMC, ISMB, ISA, etc)	MT	183	.080158
XIV	COMMISSIONING OF THE FOLLOWING ERECTED BY MECHANICAL CONTRACTOR	--		
A.12.1 , A.12.2 , A.12.3 , A.12.4 , A.12.5	Local Control Panels of Dosing Systems & FOPH	Nos.	6	.0003776

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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.11.1 , D.11.2	High Voltage Rectifier Transformers- 95 kV, 1200 mA & Disconnecting Switches	SET	80	.0124061
D.11.3	Geared Motors for rapping System	Nos.	168	.0017828
D.11.5 , D.11.6	Heating Elements for Hoppers//Shaft Insulators/Support Insulators & Thermostats for Hopper	Nos.	2,400	.017019
D.11.7	Interlocks ESP panels/field with Master keys	SET	80	.0049568
D.11.4	Hoist/Cranes/Monorail	Nos.	4	.0002711
A.12.6	LT Unidirectional & Bidirectional drives (0.2 kW to 110 kW)	Nos.	900	.0179016
TOTAL Weightage				1.0