

**TENDER SPECIFICATION
BHEL: PSSR: SCT: 2208**

FOR

Erection, Testing & Commissioning of HT and LT Electrical Works for the Flue Gas Desulphurization (FGD) system and its auxiliaries for all five Units and Common Systems of FGD including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting, at 5 x 800 MW Yadadri Thermal Power Project.

VOLUME –II

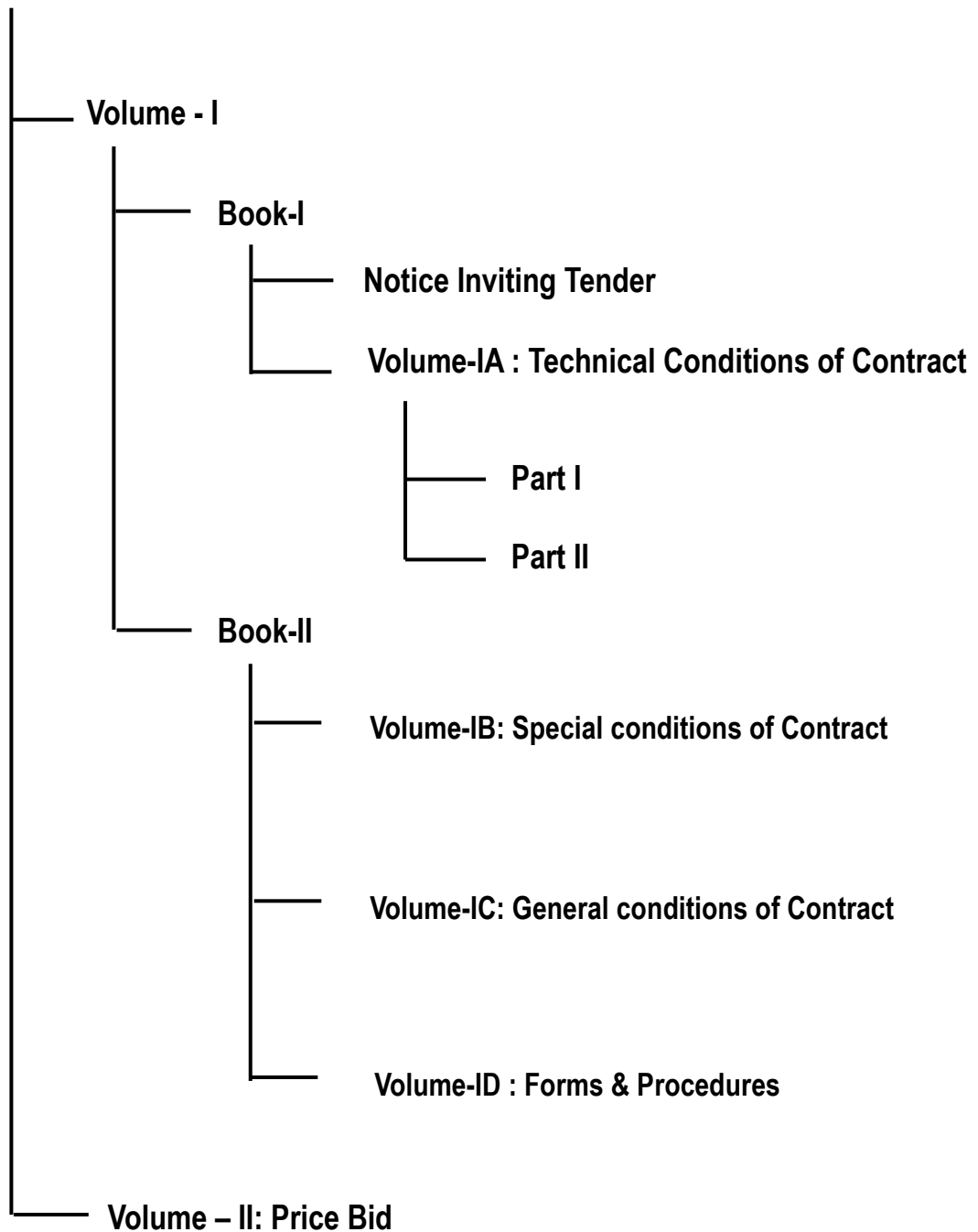
PRICE BID



BHARAT HEAVY ELECTRICALS LIMITED
(A Government of India Undertaking)
Power Sector – Southern Region
BHEL Integrated Office Complex, TNEB Road
Pallikaranai, Chennai - 600100

TENDER SPECIFICATION CONSISTS OF

Tender Specification



NOTICE INVITING TENDER

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NOTICE INVITING TENDER

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.

Part C : Bill of Quantities

Tender Specification for Erection, Testing & Commissioning of HT and LT Electrical Works for the Flue Gas Desulphurization (FGD) system and its auxiliaries for all five Units and Common Systems of FGD including Handling of materials at site BHEL stores / storage yard, transporting to site of erection and supply & application of final painting, at 5 x 800MW Yadadri Thermal Power Project

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 TRANSFORMERS	--		
,C.1.1	8 MVA, 11/3.6 kV 3 phase, ONAN Cooled Dyn11, FGD Auxiliary Transformer ,	SET	2	.0129216
,C.1.2	16 MVA, 11/3.6 KV 3 phase, ONAF/ ONAN Cooled Dyn11, FGD Auxiliary Transformer	SET	2	.0190712
,C.1.3	55 MVA, 400/11.25 KV 3 phase, ONAF/ ONAN Cooled, YNyn0, FGD Transformer	SET	2	.032394
,C.1.4, C.1.5, C.1.6, C.1.7	Cast Resin Dry Type Transformer 2MVA/1.6MVA/1MVA	SET	16	.054432
II	ERECTION AND COMMISSIONING OF HT SWITCHGEAR	--		
II.1	11 kV Switchgear	--		
,A.1.4	FGD SWBD (OBN) 3500A, 11KV, SWBD consists of 38 panels of suitable 21 shipping sections. Overall panel size approx. 31920mm (L) x2349mm (D) x2805mm (H).	SET	1	.0092631
,A.3.1, A.3.2	Earthing Breaker/Trucks (Feeder/Busbar)	Nos	3	.0003461
II.2	3.3kV Switchgear	--		
,A.1.2	FGD SWBD (OCN) 3150 A,SWBD consists of 14 shipping sections. Overall panel size approx. 20880mm (L) x2349mm (D) x2805mm (H).	SET	1	.0059757
,A.1.3	FGD SWBD (OCP) 2000 A,SWBD consists of 10 shipping sections. Overall panel size approx. 13500mm (L) x2349mm (D) x2805mm (H).	SET	1	.0042684

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,A.4.1, ,A.4.2, ,A.4.3	Earthing Breaker/ Trucks(Feeders/Busbars)	Nos	8	.0009231
III	ERECTION AND COMMISSIONING OF CONTROL PANEL SYSTEM	--		
,A.5.1	Data Concentrator Panel- with associated loose supplied items (HT)	SET	2	.0022663
,A.5.5	PC for Relay parametrization	Nos.	4	.000331
,D.6	11 kV Neutral Ground Resistor (NGR) with Isolator and Supporting Structures	SET	2	.0016165
,D.7	3.3 kV Neutral Ground Resistor (NGR) with Isolator and Supporting Structures	SET	6	.0048493
IV	LAYING OF HT CABLES	--		
,D.1.1	11kV 1C-630 AL ARM. AL	Mtrs	15,000	.0250205
,D.1.2	11kV 3C-240 AL ARM. AL	Mtrs	10,000	.0193574
,D.1.3	3.3kV 1C-240 AL ARM. AL	Mtrs	18,000	.0244645
,D.1.4	3.3kV 3C-185 AL ARM. AL	Mtrs	6,000	.0107495
V	Installation of Cable termination and joint kits for HT Cables	--		
,D.2.1, ,D.3.1	11KV-1C-630 AL	Nos.	100	.0095304
,D.2.2, ,D.3.2	11KV-3C-240 AL	Nos.	70	.0071138

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D.2.3, D.3.3	3.3KV 1C-240 AL	Nos.	60	.0053278
D.2.4, D.3.4	3.3KV 3C-185 AL	Nos.	105	.0101799
VI	Laying and Termination of LAN Cables	--		
A.5.2	D link 4 pair PVC, CAT 5 Lan cable	Mtrs	5,000	.0007208
VII	FABRICATION AND INSTALLATION OF STRUCTURAL STEEL	--		
F.12	STRUCTURAL STEEL (ISMC/ISMB/ANGLE/FLATS etc)	MT	97	.0366125
VIII	OTHER CABLES	--		
A.5.3	Laying of FO Cable includes fixing of fibre optic components and termination kits LIU, face plates, cabinets, SC coupler, grounding etc.	Mtrs	5,000	.0024712
A.5.4	OFC Splicing	Nos	32	.0000857
IX	COMMISSIONING OF THE FOLLOWING ERECTED BY MECHANICAL CONTRACTOR	--		
A.2.1	HT Drives (11KV)	Nos.	3	.0007934
A.2.2	HT Drives (3.3KV)	Nos.	40	.0054736
X	ERECTION AND COMMISSIONING OF HT BUSDUCT	--		
B.1.1	11kV-3500 A SPBD BUSDUCT	Mtrs	1,420	.0998031

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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 TREATED EARTH PIT	--		
J.1	Treated Earth pit of CI pipe 3000 m long with funnel and accessories including all civil works in hardrock by drilling, filling of earth pit with alternate layer of chrc coal & salt as per IE specification and making of brick chamber, with both side plastering, supply and fixing of manhole CI cover plate/RCC Slab etc. complete as per IS 3043 (only 100 mm CI pipe shall be supplied by BHEL)	SET	15	.0029218
XII	ERECTION AND COMMISSIONING OF DIESEL GENERATOR SET	--		
E.1	DG Set 1010 KVA , 415 V , 0.8 pf, DG set, panels, battery charger, exhaust piping and with all accessories (i.e., all items mentioned in BOQ ref)	SET	2	.0203127
E.2	DG set Acoustic enclosure with lighting fixture	SET	2	.0018224
XIII	ERECTION AND COMMISSIONING OF LT SWITCHGEAR ACDB/DCDB/MCC/PMCC/WDB, etc.	--		
G.1.1	415 V FGD PMCC 1EA, Approx. Rating=3200A, Approx. Dimensions(LXDXH):18200mm x 1500mm x 2400mm, Approx. Weight:13100, Total No. of verticals:20, No. of Shipping Sections:12	SET	1	.0071851
G.1.2	415 VFGD PMCC 2EA, Approx. Rating=3200A, Approx. Dimensions:18100mm x 1500mm x 2400mm, Approx. Weight:13100, Total No. of verticals:20, No. of Shipping Sections:12	SET	1	.0071851
G.1.3	415V FGD PMCC 3EA, Approx. Rating=3200A, Approx. Dimensions:17200mm x 1500mm x 2400mm, Approx. Weight:12450, Total No. of verticals:20, No. of Shipping Sections:12	SET	1	.0071851
G.1.4	415V FGD PMCC 4EA, Approx. Rating=3200A, Approx. Dimensions:17200mm x 1500mm x 2400mm, Approx. Weight:12250, Total No. of verticals:20, No. of Shipping Sections:12	SET	1	.0071851

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G.1.5	415V FGD PMCC 5EA, Approx. Rating=1600A, Approx. Dimensions:12950mm x 1500mm x 2400mm, Approx. Weight:8500, Total No. of verticals:16, No. of Shipping Sections:10	SET	1	.0064695
G.1.6	415V GYPSUM PMCC, Approx. Rating=2500A, Approx. Dimensions:25200mm x 1500mm x 2400mm, Approx. Weight:17500, Total No. of verticals:32, No. of Shipping Sections:16	SET	1	.009842
G.1.7	415V LIMESTONE PMCC, Approx. Rating=2500A, Approx. Dimensions:24150mm x 1500mm x 2400mm, Approx. Weight:18000, Total No. of verticals:28, No. of Shipping Sections:16	SET	1	.009842
G.1.8	AC & VENTILATION MCC STAGE-I #0WL, Approx. Rating=630A, Approx. Dimensions:8350mm x 1000mm x 2400mm, Approx. Weight:5600, Total No. of verticals:10, No. of Shipping Sections:5	SET	1	.0031063
G.1.9	AC & VENTILATION MCC STAGE-II #0WM, Approx. Rating=630A, Approx. Dimensions:8350mm x 1000mm x 2400mm, Approx. Weight:5600, Total No. of verticals:10, No. of Shipping Sections:5	SET	1	.0031063
G.1.10	EMERGENCY MCC# 0WH (STAGE-I), Approx. Rating=1600A, Approx. Dimensions:13450mm x 1500mm x 2400mm, Approx. Weight:8150, Total No. of verticals:16, No. of Shipping Sections:10	SET	1	.0069633
G.1.11	EMERGENCY MCC# 0WK (STAGE-II), Approx. Rating=1600A, Approx. Dimensions:14300mm x 1500mm x 2400mm, Approx. Weight:8500, Total No. of verticals:17, No. of Shipping Sections:11	SET	1	.0076596
G.1.12	LHP GHP PMCC, Approx. Rating=1600A, Approx. Dimensions:14300mm x 1500mm x 2400mm, Approx. Weight:8500, Total No. of verticals:17, No. of Shipping Sections:11	SET	1	.0076596

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G.1.1 3	FGD SUB DCDB STAGE-1, Approx. Rating=400A, Approx. Dimensions:5100mm x 1000mm x 2400mm, Approx. Weight:3600, Total No. of verticals:6, No. of Shipping Sections:3	SET	1	.0018588
G.1.1 4	FGD SUB DCDB STAGE-2, Approx. Rating=400A, Approx. Dimensions:5100mm x 1000mm x 2400mm, Approx. Weight:3600, Total No. of verticals:6, No. of Shipping Sections:3	SET	1	.0018588
XIV	ERECTION AND COMMISSIONING OF 415 V LT NON SEGREGATED PHASE BUSDUCT	--		
G.5.1, G.5.2, G.5.3, G.5.4, G.5.5, G.5.6, G.5.7, G.5.8	415V LT NSPBD Type BUS DUCT 3500A,1600A	Mtrs	198	.0128072
XV	LAYING OF LT POWER CABLES 1.1 kV, XLPE INSULATED, GLAVANISED STEEL ARMoured, SINGLE/MULTICORE CABLES FRLS (Al/Cu CABLES)	--		
F.8.1 0	3C-240 sq.mm / 3.5C-240 sq.mm / 4C-185 sq.mm	Mtrs	24,000	.0133443
F.7.2	1C-630 sq.mm	Mtrs	10,000	.008855
F.8.1 4,F.8. 9	3.5C-185 sq.mm / 3C-185 sq. mm	Mtrs	20,000	.0168863

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,F.7.1	1C-400 Sq. mm / 3C-150 sq.mm	Mtrs	1,000	.0008031
,F.8.1 3,F.8. 8	3C-95 sq.mm / 3.5C-95 sq.mm	Mtrs	72,000	.0400328
,F.8.1 2,F.8. 4,F.8. 7	3C-50 sq.mm / 3.5C-50 sq.mm / 2C-95 sq.mm / 3.5C-70 sq.mm/2C-70 sqmm / 4C-35 sqmm	Mtrs	106,000	.04584
,F.8.3	1C-95 sq.mm / 1C-120 sq.mm / 2C-50 sq.mm / 3C - 35 Sq.mm / 3.5C - 35 Sq.mm / 4C - 25 Sq.mm	Mtrs	1,000	.0004942
,F.8.1 1,F.8. 6	3C-25 sq.mm / 3.5C-25 sq.mm / 1C-70 sq.mm/2C - 35 sq.mm	Mtrs	53,000	.0207371
,F.8.2	2C-25 sq.mm / 3C - 16 Sq.mm / 4C - 16 Sq.mm	Mtrs	5,000	.0013385
,F.8.1, F.8.15 F.8.5	1C-35 sq.mm / 2C-10 sq.mm / 3C-10 sq.mm / 4C-6 sq.mm / 4C-10 sq.mm / 1C-25 sq.mm / 2C-16 sq.mm	Mtrs	31,000	.0089374
XVI	END TERMINATION OF LT POWER / CONTROL CABLES - 1.1 kV, XLPE -- INSULATED, GALVANISED STEEL ARMoured SINGLE/ MULTICORE CABLES FRLS (Al/Cu CABLES)	--		
,F.9.2	1C-630 sq.mm	Nos.	66	.0006402
,F.9.1	1C-400 sq.mm	Nos.	6	.0000426

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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
,F,9.3	2C-10 sq.mm	Nos.	86	.0003064
,F,9.4	2C-25 sq.mm	Nos.	32	.0001272
,F,9.5	2C-50 sq.mm	Nos.	6	.0000276
,F,9.6	2C-95 sqmm	Nos.	6	.0000336
,F,9.7	3C-10 sq.mm	Nos.	92	.0000796
,F,9.8	3C-25 sq.mm	Nos.	152	.0006417
,F,9.1 3	3.5C-25 sq.mm	Nos.	200	.0009308
,F,9.9	3C-50 sq.mm	Nos.	100	.0006652
,F,9.1 4	3.5C-50 sq.mm	Nos.	600	.0032496
,F,9.1 0	3C-95 sq.mm	Nos.	112	.0006412
,F,9.1 5	3.5C-95 sq.mm	Nos.	366	.002442
,F,9.1 1	3C -185 sqmm	Nos.	120	.0016927

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,F.9.1 6	3.5C-185 sq.mm	Nos.	12	.0001888
,F.9.1 2	3C-240 sq.mm	Nos.	160	.0025371
,F.9.1 7	4C-10 sq.mm	Nos.	26	.0000225
XVII	LAYING AND TERMINATION OF LT POWER CABLES, CONTROL CABLES, ETC.	--		
,F.10. 1	5C X 4.0 SQ MM Cu Control cable	Mtrs	20,000	.0053542
,F.10. 2	5C X 2.5 SQ MM Cu Control cable	Mtrs	44,000	.0117792
,F.10. 3	7C X 2.5 SQ MM Cu Control cable	Mtrs	30,000	.0080313
,F.10. 4	10C X 2.5 SQ MM Cu Control cable	Mtrs	1,000	.0002883
,F.10. 5	12C X 2.5 SQ MM Cu Control cable	Mtrs	38,000	.0109555
,F.10. 6,F.10 .7	16CX2.5 SQ MM / 19CX2.5 SQ MM Cu Control cable	Mtrs	11,000	.0049835

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,F.6.1, F.6.2, H.2.1	3C-2.5mm2 [Cu] Power Cable /2C-2.5mm2 [Cu] Power Cable / 3C*1.5 sqmm	Mtrs	349,200	.0791018
XVIII	ERECTION OF PRE FABRICATED CABLE TRAYS (LADDER/ PERFORATED -- TYPE) AND ACCESSORIES LIKE BEND, TEE, ELBOWS, CROSS, & REDUCERS, ETC.	--		
,F.11. 7	600 mm wide-GI-Cable Tray Ladder Type	Mtrs	25,000	.0628086
,F.11. 5	450 mm wide-GI-Cable Tray Ladder Type	Mtrs	3,000	.004757
,F.11. 3	300 mm wide-GI Cable Tray Ladder Type	Mtrs	6,250	.0151873
,F.11. 1	150 mm wide-GI Cable Tray Ladder Type	Mtrs	7,500	.0108113
,F.11. 8	600 mm wide-GI Cable Tray Perforated Type	Mtrs	4,500	.0141783
,F.11. 6	450 mm wide-GI Cable Tray Perforated Type	Mtrs	1,750	.0034596
,F.11. 4	300 mm wide-GI Cable Tray Perforated Type	Mtrs	1,750	.0045047

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F.11. 2	150 mm wide-GI Cable Tray Perforated Type	Mtrs	6,250	.00900094
XIX	ERECTION, TESTING & COMMISSIONING OF 220V DC BATTERY AND BATTERY CHARGER	--		
D.4	220 V DC Battery-108 cell	Set	4	.0031595
D.5	Float cum Boost Battery charger panel and accessories	Set	8	.0069758
XX	ERECTION AND COMMISSIONING PANELS AND ACCESSORIES/ CONTROL PANEL SYSTEM AND ACCESSORIES	--		
F.5	Inverter panel for GGH (1000 mm x 700 mm (wgt - 170 kg))	SET	5	.0002745
G.4	Data Concentrator Panel- with associated loose supplied items (LT)	SET	2	.0024549
XXI	ERECTION OF JUNCTION BOXES / PUSH BUTTON STATIONS/FUSE DBs(AC/DC)	--		
G.6,G.7	Local Pushbutton Stations/Local Motor Starters	Nos	400	.0057496
XXII	INSTALLATION, TESTING AND COMMISSIONING OF EARTHING SYSTEMS (GS/GI)	--		
F.13. 3	FLAT 65 x 8 / 75 X 10 mm	Mtrs	5,000	.0135914
F.13. 2	FLAT 50 X 6 mm / 35 X 6 mm	Mtrs	6,000	.0108731

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F.13. 1	FLAT 25 X 3 /25 X 6 /30 X 5mm	Mtrs	1,500	.0023785
F.13. 5,F.13 .6	6 sqmm GI Wire, 16 sqmm GI Wire, GI/GS WIRE 8 SWG, GI WIRE 14 SWG	Mtrs	27,000	.0027801
F.13. 4	Flexible braided copper conductor with copper clamp for gate earthing	Nos	8	.000042
XXIII	COMMISSIONING OF THE FOLLOWING ERECTED BY MECHANICAL CONTRACTOR	--		
F.1.1, F.1.2, F.2.1, F.2.2, F.3.1, F.3.2, F.3.3, F.3.4, F.3.5, F.3.6, F.4.H. 1	LT Unidirectional & Bidirectional drives	Nos.	196	.0036407
TOTAL Weightage				1.0