

Annexure-I

Bill Of Quantity Cum Price Schedule

Name of work:- Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
1	Fully equipped 400kV, 63kA for 1 second, SF6 GIS GT bay Module - With CSD The scope includes complete ETC of GIS bay including interconnection with main bus, complete in all respect. as per single line diagram & GIS layout. The supervision shall be provided by GIS manufacturer. Arrangement of tool & tackles, testing instruments shall be part of bidder's scope such as and not limited to Annexure-B.	2	Set	1,73,128.70	3,46,257.40
2	Fully equipped 400kV, 63kA for 1 second, SF6 GIS STANDBY /MAINTENACE TRANSFORMER bay Module - With CSD The scope includes complete ETC of GIS bay including interconnection with main bus, complete in all respect. as per single line diagram & GIS layout. The supervision shall be provided by GIS manufacturer. Arrangement of tool & tackles, testing instruments shall be part of bidder's scope such as and not limited to Annexure-B.	1	Set	1,73,128.70	1,73,128.70
3	Fully equipped 400kV, 63kA for 1 second, SF6 GIS LINE bay Module - With PIR The scope includes complete ETC of GIS bay including interconnection with main bus, complete in all respect. as per single line diagram & GIS layout. The supervision shall be provided by GIS manufacturer. Arrangement of tool & tackles, testing instruments shall be part of bidder's scope such as and not limited to Annexure-B.	6	Set	2,00,180.06	12,01,080.36
4	Fully equipped 400kV, 63kA for 1 second, SF6 GIS BUS REACTOR bay Module - With CSD The scope includes complete ETC of GIS bay including interconnection with main bus, complete in all respect. as per single line diagram & GIS layout. The supervision shall be provided by GIS manufacturer. Arrangement of tool & tackles, testing instruments shall be part of bidder's scope such as and not limited to Annexure-B.	2	Set	1,73,128.70	3,46,257.40
5	Bus VT Modules for Main Buses The scope includes complete ETC of GIS bay including interconnection with main bus, complete in all respect. as per single line diagram & GIS layout. The supervision shall be provided by GIS manufacturer. Arrangement of tool & tackles, testing instruments shall be part of bidder's scope such as and not limited to Annexure-B.	4	Set	83,859.21	3,35,436.84
6	Fully equipped 400kV, 63kA for 1 second, SF6 GIS TIE bay Module - With CSD The scope includes complete ETC of GIS bay including interconnection with main bus, complete in all respect. as per single line diagram & GIS layout. The supervision shall be provided by GIS manufacturer. Arrangement of tool & tackles, testing instruments shall be part of bidder's scope such as and not limited to Annexure-B.	3	Set	1,73,128.70	5,19,386.10

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7	Fully equipped 400kV, 63kA for 1 second, SF6 GIS TIE bay Module - With PIR The scope includes complete ETC of GIS bay including interconnection with main bus, complete in all respect. as per single line diagram & GIS layout. The supervision shall be provided by GIS manufacturer. Arrangement of tool & tackles, testing instruments shall be part of bidder's scope such as and not limited to Annexure-B.	3	Set	1,73,128.70	5,19,386.10
8	Fully equipped 400kV, 63kA for 1 second, SF6 GIS TIE bay Module - With CSD & PIR The scope includes complete ETC of GIS bay including interconnection with main bus, complete in all respect. as per single line diagram & GIS layout. The supervision shall be provided by GIS manufacturer. Arrangement of tool & tackles, testing instruments shall be part of bidder's scope such as and not limited to Annexure-B.	1	Set	1,73,128.70	1,73,128.70
9	400kV Bus Sectionalizer Bay (for Bus Bars) The scope includes complete ETC of GIS bay including interconnection with main bus, complete in all respect. as per single line diagram & GIS layout. The supervision shall be provided by GIS manufacturer. Arrangement of tool & tackles, testing instruments shall be part of bidder's scope such as and not limited to Annexure-B.	4	Set	58,758.28	2,35,033.12
10	Fully equipped 400kV, 63kA for 1 second, SF6 GIS SPARE LINE bay Module - With PIR The scope includes complete ETC of GIS bay including interconnection with main bus, complete in all respect. as per single line diagram & GIS layout. The supervision shall be provided by GIS manufacturer. Arrangement of tool & tackles, testing instruments shall be part of bidder's scope such as and not limited to Annexure-B.	1	Set	2,00,180.06	2,00,180.06
11	BusBar Modules - Set of Three Single Phase(isolated), SF6 gas-insulated metal enclosed bus bars The scope includes complete ETC of GIS bay including interconnection with main bus, complete in all respect. as per single line diagram & GIS layout. The supervision shall be provided by GIS manufacturer. Arrangement of tool & tackles, testing instruments shall be part of bidder's scope such as and not limited to Annexure-B.	2	Set	2,32,641.68	4,65,283.36
12	Single Phase Isolated, 400kV, SF6 Gas-Insulated Metal enclosed Bus Bars for Tie Bay Interconnection including interconnection with main & tie bay The scope includes complete ETC of GIS bay including interconnection with main bus, complete in all respect. as per single line diagram & GIS layout. The supervision shall be provided by GIS manufacturer. Arrangement of tool & tackles, testing instruments shall be part of bidder's scope such as and not limited to Annexure-B.	12	Set	14,755.28	1,77,063.36

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SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
13	Gas Insulated Bus Duct (GIB) - 400kV Single phase (isolated) SF6 gas-insulated metal enclosed GIS duct from GIS GT/ST/Bus Reactor/Outgoing Line bay Modules to SF6 to Air bushing. Work includes complete ETC of GIB including interconnection with GIS GT/ST/Bus Reactor/Outgoing Line bay Modules and SF6 to Air bushing.	1950	Meter	983.68	19,18,176.00
14	SF6 to Air Bushing -Polymer type (including terminal connector)	36	Nos.	10,820.54	3,89,539.44
15	Local Control Panel (LCC)	21	Nos.	9,836.86	2,06,574.06
16	SF6 Gas Treatment, Filling, Evacuation, Re-filling and handling cycle The cycle will be followed multiple time till the Completion of the HV test. Gas processing and filling unit shall be in the scope of BHEL/manufaturer.	21500	KG	27.22	5,85,230.00
17	Structure Work for Installation of GIS including Support Structure for GIS, GIB (bus duct), SF6 to Air Bushings, Supports, Platforms, Ladders, Foundation Bolts, rails, Embedded Parts in floors etc. complete in all respect, welding works, which are required for installation of GIS system as per the specification.	95	MT	18,954.20	18,00,649.00
18	Grounding/ Earthing for GIS: Interconnection with GIS building mesh/grid complete (for ETC BOQ Sl. No. 1 to 15) including Fully equipped GT/ST/LINE/SPARE/REACTOR bays, VT Bays, Bus sectionaliser, busbar modules, Bus Bars for Tie Bay Interconnection, Gas Insulated Bus duct, LCC, SF6 to air bushing, using braided Cu wire (insulated/ non-insulated)/ earth strip (50X6 mm Cu/Al/GI flat). Work includes cutting, brazing, welding ,lug crimping, bolting , fixing etc. and connecting with riser/earth strip (GI/AL /Cu flat/wire) complete in all respect. Grounding Material will be supplied by GIS Supplier /BHEL.	1	Lot	3,25,734.19	3,25,734.19
19	Grounding/ Earthing for GIS: Laying of Earthing grid/mesh on surface/embedded in GIS building floor using earth strip (50X6 mm Cu/Al/GI flat). Work includes cutting, brazing, welding, bolting , fixing etc. complete in all respect. Grounding Material will be supplied by GIS Supplier /BHEL.	1600	meter	64.65	1,03,440.00
20	HV Test for GIS - HV test kit shall be arranged by GIS Supplier. Test shall also be conducted by GIS supplier. All necessary support i.e. unloading, shifting, minor assembling of HV test kit, support for complete HV Test, dismantling & loading on carrier, Complete in all respect is in ETC vendor scope.	1	Lot	1,51,633.58	1,51,633.58
21	Cabling using 24Cx1.5 sq.mm. cable between LCC and GIS including termination, ferruling , laying, dressing, tagging etc. including arrangement of consumables etc. Cable shall be provided by GIS supplier / BHEL.	14000	Meter	32.09	4,49,260.00
22	Cabling using 8Cx1.5 sq.mm. cable between LCC and GIS including termination, ferruling , laying, dressing, tagging etc. including arrangement of consumables etc. Cable shall be provided by GIS supplier / BHEL.	2000	Meter	17.32	34,640.00
23	Cabling using 6Cx1.5 sq.mm. cable between LCC and GIS including termination, ferruling , laying, dressing, tagging etc. including arrangement of consumables etc. Cable shall be provided by GIS supplier / BHEL.	11000	Meter	12.99	1,42,890.00

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24	Cabling using 4Cx1.5 sq.mm. cable between LCC and GIS including termination, ferruling , laying, dressing, tagging etc. including arrangement of consumables etc. Cable shall be provided by GIS supplier / BHEL.	4000	Meter	12.13	48,520.00
25	Cabling using 6Cx2.5 sq.mm. cable between LCC and GIS including termination, ferruling , laying, dressing, tagging etc. including arrangement of consumables etc. Cable shall be provided by GIS supplier / BHEL.	7000	Meter	12.99	90,930.00
26	Laying & termination of Special cable (for Control Switching Device) between LCC and Relay Panel (in Panel/Control Room)	3000	Meter	24.42	73,260.00
27	420kV 125 MVAR, 3-Ph, Bus Reactor : 420kV 125 MVAR, 3-Ph, Reactor complete in all respect alongwith its MB Box, Radiator Bank and its cooling arrangement, Conservator, Cooler Control Cabinet/Marshalling Kiosk, accessories and insulating oil. Work includes erection of all auxiliaries viz turrets, bushings, terminal connectors, associated earthing works (excluding riser connections to main earthmat), laying of cable from Reactor auxiliaries to MK, Oil filtration, filling of oil, hot oil circulation, Oil testing etc as required to complete the installation of Reactor (Supervision of unloading, Erection, Testing and commissioning will be done by OEM). Charges for Oil filtration, filling of oil, hot oil circulation etc for first time commissioning of Reactor are deemed to be covered in this line item.	2	Set	7,85,914.96	15,71,829.92
28	420kV 125 MVAR, 3-Ph, Bus Reactor : Unloading of Reactor Tank (main body) (1 No.)	2	Nos.	1,41,464.69	2,82,929.38
29	420kV 125 MVAR, 3-Ph, Bus Reactor : Dragging/shifting charges of above mentioned Reactor (1 No.) on ground, upto rail cum road / jacking pad	60	Meter	1,886.19	1,13,171.40
30	420kV 125 MVAR, 3-Ph, Bus Reactor : Dragging / shifting charges of above mentioned Reactor (1 No.) on rail cum road	120	Meter	1,886.19	2,26,342.80
31	420kV 125 MVAR, 3-Ph, Bus Reactor : Complete dryout of 400kV Bus Reactor by N2 filling/ vaccuming/ purging and heating (if required) as per BHEL Bhopal procedure (Annexure-F). Complete in all respect excluding supply N2 gas.	2	Lot	49,205.11	98,410.22
32	420kV 125 MVAR, 3-Ph, Bus Reactor: Supply of N2 gas as per instruction of BHEL Site. Mode of measurement shall be number of gas cyliner (returnable) having 50kG N2 gas	80	Nos.	2,733.62	2,18,689.60
33	420kV 125 MVAR, 3-Ph, Bus Reactor : Oil Testing (BDV, ppm, Resistivity & Tan delta etc for oil supplied in drums (if required). 1 set equals all the tests on 1 sample.	25	Set	2,733.62	68,340.50
34	390kV Surge Arrester: Surge Arrester: 390 kV, 1 Phase, Gapless type Metal Oxide Surge Arrester complete with surge counter, leakage current meter, insulating base, connecting cable and terminal connector, without support structure.	33	Set	4,040.71	1,33,343.43
35	420kV Bus Post Insulator complete with corona ring & terminal connectors without support structure	69	Set	1,385.38	95,591.22
36	400kV String Insulators and Hardware: 400 kV Double Tension Polymer long rod Hardware with Turnbuckle suitable for Twin ACSR Moose Conductor, Subconductor Spacing 450mm - In 400kV Switchyard Tower/Beams	18	Nos.	2,951.05	53,118.90

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SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
37	400kV String Insulators and Hardware: 400 kV Double Tension Polymer long rod Hardware without Turnbuckle suitable for Twin ACSR Moose Conductor, Subconductor Spacing 450mm - In 400kV Switchyard Tower/Beams	18	Nos.	2,951.05	53,118.90
38	400kV String Insulators and Hardware: 400 kV Single Suspension Polymer long rod Hardware with Drop Clamp suitable for Twin ACSR Moose Conductor, Subconductor Spacing 450mm	36	Nos.	1,967.37	70,825.32
39	Supply of 7/3.66mm Galvanised steel Shield Wire	3	km	68,580.00	2,05,740.00
40	7/3.66mm Galvanised steel Shield Wire: GS Shield wire including tension clamp, PG clamp and clamping on structure/A row wall column for down conductor, fixing/bolting with earth strip etc to complete - In transformer yard & 400kV Switchyard	3	km	35,789.14	1,07,367.42
41	ACSR Moose Conductor: Conductor complete with Tee connectors for droppers to equipment connections, PG clamps for busbar jumpering, Twin/Quad bundle spacers or any other type of connector etc to complete.	3	km	70,423.80	2,11,271.40
42	4"(EH) IPS Aluminium Tube: Al Tube (ETC of Al.Tube includes Aluminium welding and bending to be included. Welding sleeve and Al tube will be supplied by BHEL. Including Corona Bell Fixing, Tee Connector Fixing, and other clamps and connectors etc. Connectors shall be provided by BHEL.)	600	Meter	398.30	2,38,980.00
43	Auxiliary - LT Distribution Boards: 415V AC DISTRIBUTION BOARD (ACDB) (1 distribution board is comprising of 5 No. of Panels, Tentative single panel size= 2500mm(W)x2500mm(H))	1	Set	48,845.12	48,845.12
44	Auxiliary - LT Distribution Boards: 415V AC Emergency Power Distribution Board (1 distribution board is comprising of 1 No. of Panels, Tentative single panel size= 2500mm(W)x2500mm(H))	1	Set	18,316.92	18,316.92
45	Auxiliary - LT Distribution Boards: 415V AC MAIN LIGHTING DISTRIBUTION BOARD (MLDB) with Lighting Transformer (1 distribution board is comprising of 1 No. of Panels, Tentative single panel size= 3000mm(W)x2500mm(H))	2	Set	89,594.31	1,79,188.62
46	Auxiliary - LT Distribution Boards: 415V AC Emergency Lighting Distribution board (AC ELDB) with Lighting Transformer (1 distribution board is comprising of 1 No. of Panels, Tentative single panel size= 3000mm(W)x2500mm(H))	1	Set	42,439.41	42,439.41
47	Auxiliary - LT Distribution Boards: 220V DC Emergency Lighting Board (DC ELDB) (1 distribution board is comprising of 1 No. of Panels, Tentative single panel size= 2500mm(W)x2500mm(H))	1	Set	27,336.17	27,336.17
48	Auxiliary - LT Distribution Boards: 220V DC distribution board (1 distribution board is comprising of 5 No. of Panels, Tentative single panel size= 2500mm(W)x2500mm(H))	1	Set	18,861.96	18,861.96
49	Auxiliary - LT Distribution Boards: 48 V DC Distribution board (1 distribution board is comprising of 2 No. of Panels, Tentative single panel size= 2500mm(W)x2500mm(H))	1	Set	18,861.96	18,861.96
50	Auxiliary - Battery Bank and Charger: 220 V, 535 AH Battery Bank (Lead Acid Plante Battery) along with all accessories such as racks, interconnecting cables, connectors etc. complete with MCCB box. Supervision of ETC is in Battery supplier scope.	2	Set	1,02,168.95	2,04,337.90

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Supercritical Thermal Power Project in Tamilnadu

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SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
51	Auxiliary - Battery Bank and Charger: 48 V, 645 AH Battery Bank (Lead Acid Plante Battery) along with all accessories such as racks, interconnecting cables, connectors etc. complete with MCCB box. Supervision of ETC is in Battery supplier scope.	2	Set	70,732.35	1,41,464.70
52	Auxiliary - Battery Bank and Charger: 220V 100A Float Cum Boost Battery Charger. Supervision of ETC is in Battery charger scope.	2	Set	18,861.96	37,723.92
53	Auxiliary - Battery Bank and Charger: 48 V, 110A Float Cum Boost Battery Charger. Supervision of ETC is in Battery charger scope.	2	Set	18,861.96	37,723.92
54	Auxiliary - Battery Bank and Charger: Battery discharge Load bank (Resistive/ reactive type). Supervision of ETC is in Battery charger scope.	2	Set	6,834.04	13,668.08
55	Auxiliary - Battery Bank and Charger: Battery Health Monitoring System. Supervision of ETC is in Battery supplier scope.	4	Set	6,105.64	24,422.56
56	Dry type LT Transformer : Transformer 11/ 0.433 kV, 800 kVA, 3 Phase, DYN11, AN, OCTC, Dry type LT Outdoor Auxiliary Transformer with all fittings & accessories	2	Set	21,084.00	42,168.00
57	Substation protection panels/Islanding panel/ Busbar panel/disturbance recorder panel/energy metering panel/ SAS-Bay control panels/SAS-Network panel (Approx 800mm Wide) 400kV Control and Relay Panels along with Substation Automation System panels- (Including Mounting & Internal wiring of loose-supplied CSD/PMU Units, As Applicable) (Testing and commissioning of numerical relays/BCU/Energy Meters/ SAS equipment's in scope of respective equipment's supplier. Necessary manpower support for wiring, BUS wiring, numerical device testing, arranging tools, tackles and testing equipment's including 3-ph numerical relay test kit is in scope of ETC contractor)	54	Set	6,594.09	3,56,080.86
58	400kV Control and Relay Panels along with Substation Automation System: Operator, Engineering, DFR, Tarriff metering Work Station PC at Control room/EWS room	5	Nos.	789.31	3,946.55
59	400kV Control and Relay Panels along with Substation Automation System: A3/A4 Colour Laserjet/dot matrix Printer	3	Nos.	394.66	1,183.98
60	400kV Control and Relay Panels along with Substation Automation System: UPS/ Inverter with Battery Backup	2	Nos.	3,946.56	7,893.12
61	400kV Control and Relay Panels along with Substation Automation System: Large Video Screen (screen size approx. 100 inch)	1	Nos.	5,055.47	5,055.47
62	400kV Control and Relay Panels along with Substation Automation System: Laptop with relay parameterisation software	2	Nos.	1,221.13	2,442.26
63	400kV Control and Relay Panels along with Substation Automation System: Time Synchronizing equipment (GPS receiver with 100mm TDU complete in all respects including antenna, all cables, processing equipment etc.)	1	Nos.	2,367.94	2,367.94
64	400kV Control and Relay Panels along with Substation Automation System: Common equipment's: Relay Test Kit (Only Handling and storage)	1	Nos.	346.19	346.19

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SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
65	400kV Control and Relay Panels along with Substation Automation System: Handling & installation of furniture required in switchyard control room & Power house control room for OWS, printer, servers etc.	1	Lot	2,367.94	2,367.94
66	400kV Control and Relay Panels along with Substation Automation System: Armoured/ Unarmoured FO cable/ Network Cable along with connectors for SAS/ Busbar Protection/ PLCC/ OLTE Communication. The laying of all network/optical cables shall be in the contractor scope. However, Optical cable will be laid under SAS supplier's supervision. Splicing and Termination shall be in SAS supplier's scope.). FO cable shall be laid in PVC pipe/ GI Pipe and the same is covered in seperate BOQ item.	3000	Meter	23.68	71,040.00
67	400kV Control and Relay Panels along with Substation Automation System: Splicing of Armoured FO Cable (1 No. = Splicing of 1 No. Fibre)	100	Nos.	488.45	48,845.00
68	Base Equipment - Equipment Cabinet For SDH: (Including interface cards and Tributary cards, Common Cards, Cross Connect/Control Cards, Optical Base Cards, Power Supply Cards, Sub-Rack, DDF, MDF(as applicable), patch cord, Termination Equipment Drop Insert Mux fully equipped, Subscriber line interface cards, Joint Boxes, PVC/Hume ducts, telephone receiver, Other Hardware and accessories required for installation of equipment FOTE and PLCC Equipment - (Testing and commissioning of FOTE/PLCC equipment in scope of FOTE/PLCC supplier; Necessary manpower support for FOTE/PLCC testing, arranging tools and tackles is in scope of ETC contractor)	1	Set	7,465.31	7,465.31
69	Network Manager System - Craft Terminal FOTE and PLCC Equipment - (Testing and commissioning of FOTE/PLCC equipment in scope of FOTE/PLCC supplier; Necessary manpower support for FOTE/PLCC testing, arranging tools and tackles is in scope of ETC contractor)	1	Set	6,221.10	6,221.10
70	VOIP Telephone FOTE and PLCC Equipment - (Testing and commissioning of FOTE/PLCC equipment in scope of FOTE/PLCC supplier; Necessary manpower support for FOTE/PLCC testing, arranging tools and tackles is in scope of ETC contractor)	1	Nos.	645.63	645.63
71	Approach Cable (DWSM) - Laying of Armoured Fibre Optic cable (supply, splicing and termination shall be in scope of OEM, however the Optical cable shall be laid by ETC contractor.) FOTE and PLCC Equipment - (Testing and commissioning of FOTE/PLCC equipment in scope of FOTE/PLCC supplier; Necessary manpower support for FOTE/PLCC testing, arranging tools and tackles is in scope of ETC contractor)	1000	Meter	22.08	22,080.00

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72	Fibre Optic distribution panel FOTE and PLCC Equipment - (Testing and commissioning of FOTE/PLCC equipment in scope of FOTE/PLCC supplier; Necessary manpower support for FOTE/PLCC testing, arranging tools and tackles is in scope of ETC contractor)	4	Nos.	4,132.00	16,528.00
73	Owner Supplied Digital Protection Coupler Panel (Approx 800mm X 800mm X 2450mm) {1 Set = 1 No. Panel} FOTE and PLCC Equipment - (Testing and commissioning of FOTE/PLCC equipment in scope of FOTE/PLCC supplier; Necessary manpower support for FOTE/PLCC testing, arranging tools and tackles is in scope of ETC contractor)	6	Set	7,216.24	43,297.44
74	PVC Pipes: Laying of 25 / 32 / 40 mm (Nominal Dia) PVC pipes	300	Meter	136.68	41,004.00
75	PVC Pipes: Laying of 100 mm (Nominal Dia) PVC pipes	100	Meter	273.36	27,336.00
76	25 mm (Nominal Dia) PVC pipe Supply of High Density PE pipe including tee / elbow as per relevant IS code. The quantity mentioned are provisional and may vary upto any extend during detailed engineering. Mode of measurement shall be running length of PVC Pipe only. Tee & Bend as per requirements are deemed included.	100	Meter	76.54	7,654.00
77	32 mm (Nominal Dia) PVC pipe Supply of High Density PE pipe including tee / elbow as per relevant IS code. The quantity mentioned are provisional and may vary upto any extend during detailed engineering. Mode of measurement shall be running length of PVC Pipe only. Tee & Bend as per requirements are deemed included.	100	Meter	123.61	12,361.00
78	40 mm (Nominal Dia) PVC pipe Supply of High Density PE pipe including tee / elbow as per relevant IS code. The quantity mentioned are provisional and may vary upto any extend during detailed engineering. Mode of measurement shall be running length of PVC Pipe only. Tee & Bend as per requirements are deemed included.	100	Meter	218.69	21,869.00
79	100 mm (Nominal Dia) PVC pipe Supply of High Density PE pipe including tee / elbow as per relevant IS code. The quantity mentioned are provisional and may vary upto any extend during detailed engineering. Mode of measurement shall be running length of PVC Pipe only. Tee & Bend as per requirements are deemed included.	100	Meter	984.11	98,411.00
80	PVC Pipe: Laying of 63mm Dia PVC pipes at a depth of 300mm including excavation, backfilling, making and repairing of walls in trenches, cutting, threading, fixing of sockets/ bends where required etc. complete. Both ends of PVC conduits shall be plugged with suitable weatherproof plastic compound/ 'PUTTI' for sealing purpose. (Payment will be made for the as erected pipe length)	500	Meter	84.87	42,435.00

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SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
81	PVC Pipe: Laying of 110mm Dia PVC pipes at a depth of 300mm including excavation, backfilling, making and repairing of walls in trenches, cutting, threading, fixing of sockets/ bends where required etc. complete. Both ends of PVC conduits shall be plugged with suitable weatherproof plastic compound/ 'PUTTI' for sealing purpose. (Payment will be made for the as erected pipe length)	100	Meter	101.39	10,139.00
82	Supply of 63mm Dia PVC pipe (class 4 as per IS 4985, Customer accepted) alongwith accessories like sockets, bends, tees etc.	500	Meter	59.22	29,610.00
83	Supply of 110mm Dia PVC pipe (class 4 as per IS 4985, Customer accepted) alongwith accessories like sockets, bends, tees etc.	100	Meter	170.00	17,000.00
84	GI pipe, 50 NB Supply of medium duty GI Pipe / conduit / long radius elbow / tee as per International standards.	1000	Meter	367.10	3,67,100.00
85	GI Pipe, 100 NB Supply of medium duty GI Pipe / conduit / long radius elbow / tee as per International standards.	1000	Meter	897.30	8,97,300.00
86	90 degree long radius elbow, suitable for 50 NB GI pipe Supply of medium duty GI Pipe / conduit / long radius elbow / tee as per International standards.	50	Nos.	286.80	14,340.00
87	90 degree long radius elbow, suitable for 100 NB GI pipe Supply of medium duty GI Pipe / conduit / long radius elbow / tee as per International standards.	50	Nos.	1,011.93	50,596.50
88	Tee Bend suitable for 50 NB GI pipe Supply of medium duty GI Pipe / conduit / long radius elbow / tee as per International standards.	25	Nos.	234.35	5,858.75
89	Tee Bend suitable for 100 NB GI pipe Supply of medium duty GI Pipe / conduit / long radius elbow / tee as per International standards.	25	Nos.	741.55	18,538.75
90	GI pipe, 50 NB Laying of GI conduits at minimum depth of 300mm including excavation, backfilling, making and repairing of walls in trenches, cutting, threading, fixing of sockets/ bends , tees, elbows, bends, check nuts, bushings, reducers, enlargers, coupling caps, nipples where required etc. complete. Both ends of GI conduits shall be closed by plastering. (Payment will be made for the as erected pipe length including elbow length)	600	Meter	84.87	50,922.00
91	GI Pipe, 100 NB Laying of GI conduits at minimum depth of 300mm including excavation, backfilling, making and repairing of walls in trenches, cutting, threading, fixing of sockets/ bends , tees, elbows, bends, check nuts, bushings, reducers, enlargers, coupling caps, nipples where required etc. complete. Both ends of GI conduits shall be closed by plastering. (Payment will be made for the as erected pipe length including elbow length)	600	Meter	101.39	60,834.00
92	GI pipe, 50 NB Fixing of GI Pipes on Lattice/ Pipe Structure/ Vertical wall / Structure/Trenches/Underhung including clamping, fixing of sockets/ bends as required etc. complete. Both ends of GI Pipes shall be closed by plastering. (Payment will be made for the as erected pipe length).	100	Meter	84.87	8,487.00

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Name of work:- Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
93	GI Pipe, 100 NB Fixing of GI Pipes on Lattice/ Pipe Stucture/ Vertical wall / Structure/Trenches/Underhung including clamping, fixing of sockets/ bends as required etc. complete. Both ends of GI Pipes shall be closed by plastering. (Payment will be made for the as erected pipe length).	100	Meter	101.39	10,139.00
94	19 C X 2.5 sq mm PVC/Copper, FRLS, Armoured Control Cables Cabling including laying, tagging, dressing, ferruling, glanding, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates - laying can be either on trays, supports, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. Extra holes closing in glands plates with GI sheet shall be in ETC contractor scope. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Glands shall be quoted separately.	26000	Meter	25.40	6,60,400.00
95	14 C X 2.5 sq mm PVC/Copper, FRLS, Armoured Control Cables Cabling including laying, tagging, dressing, ferruling, glanding, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates - laying can be either on trays, supports, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. Extra holes closing in glands plates with GI sheet shall be in ETC contractor scope. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Glands shall be quoted separately.	12000	Meter	23.09	2,77,080.00
96	10 C X 2.5 sq mm PVC/Copper, FRLS, Armoured Control Cables Cabling including laying, tagging, dressing, ferruling, glanding, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates - laying can be either on trays, supports, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. Extra holes closing in glands plates with GI sheet shall be in ETC contractor scope. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Glands shall be quoted separately.	16500	Meter	17.32	2,85,780.00

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Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
97	<p>7 C X 2.5 sq mm PVC/Copper, FRLS, Armoured Control Cables</p> <p>Cabling including laying, tagging, dressing, ferruling, glanding, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates - laying can be either on trays, supports, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. Extra holes closing in glands plates with GI sheet shall be in ETC contractor scope. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Glands shall be quoted separately.</p>	4000	Meter	16.74	66,960.00
98	<p>5 C X 2.5 sq mm PVC/Copper, FRLS, Armoured Control Cables</p> <p>Cabling including laying, tagging, dressing, ferruling, glanding, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates - laying can be either on trays, supports, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. Extra holes closing in glands plates with GI sheet shall be in ETC contractor scope. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Glands shall be quoted separately.</p>	8500	Meter	16.17	1,37,445.00
99	<p>2 C X 2.5 sq mm PVC/Copper, FRLS, Armoured Control Cables</p> <p>Cabling including laying, tagging, dressing, ferruling, glanding, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates - laying can be either on trays, supports, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. Extra holes closing in glands plates with GI sheet shall be in ETC contractor scope. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Glands shall be quoted separately.</p>	1500	Meter	14.95	22,425.00

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Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
100	<p>5 C X 4 sq mm PVC/Copper, FRLS, Armoured Control Cables</p> <p>Cabling including laying, tagging, dressing, ferruling, glanding, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates - laying can be either on trays, supports, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. Extra holes closing in glands plates with GI sheet shall be in ETC contractor scope. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Glands shall be quoted separately.</p>	18000	Meter	16.17	2,91,060.00
101	<p>10C X 2.5 sq mm EPR/Copper, Fire survival, Armoured control Cable</p> <p>Cabling including laying, tagging, dressing, ferruling, glanding, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates - laying can be either on trays, supports, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. Extra holes closing in glands plates with GI sheet shall be in ETC contractor scope. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Glands shall be quoted separately.</p>	1000	Meter	14.89	14,890.00
102	<p>1C X 630 sq mm XLPE/Aluminium, FRLS, Armoured Power Cable</p> <p>Cabling including laying, tagging, dressing, ferruling, glanding, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates - laying can be either on trays, supports, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. Extra holes closing in glands plates with GI sheet shall be in ETC contractor scope. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Glands shall be quoted separately.</p>	1800	Meter	205.03	3,69,054.00

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Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
103	3.5C X 300 sq mm XLPE/Aluminium, FRLS, Armoured Power Cable Cabling including laying, tagging, dressing, ferruling, glanding, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates - laying can be either on trays, supports, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. Extra holes closing in glands plates with GI sheet shall be in ETC contractor scope. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Glands shall be quoted separately.	500	Meter	75.45	37,725.00
104	3.5C X 150 sq mm XLPE/Aluminium, FRLS, Armoured Power Cable Cabling including laying, tagging, dressing, ferruling, glanding, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates - laying can be either on trays, supports, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. Extra holes closing in glands plates with GI sheet shall be in ETC contractor scope. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Glands shall be quoted separately.	500	Meter	61.06	30,530.00
105	3.5 C X 70 sq mm XLPE/Aluminium, FRLS, Armoured Power Cable Cabling including laying, tagging, dressing, ferruling, glanding, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates - laying can be either on trays, supports, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. Extra holes closing in glands plates with GI sheet shall be in ETC contractor scope. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Glands shall be quoted separately.	3000	Meter	33.48	1,00,440.00

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Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
106	<p>4 C X 16 sq mm XLPE/Aluminium, FRLS, Armoured Power Cable</p> <p>Cabling including laying, tagging, dressing, ferruling, glanding, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates - laying can be either on trays, supports, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. Extra holes closing in glands plates with GI sheet shall be in ETC contractor scope. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Glands shall be quoted separately.</p>	3000	Meter	16.17	48,510.00
107	<p>4 C X 16 sq mm XLPE/Aluminium, FRLS, Armoured Power Cable</p> <p>Cabling including laying, tagging, dressing, ferruling, glanding, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates - laying can be either on trays, supports, underground, buried in ground or through GI/PVC pipe over/under ground, through wall/floor slab etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers shall be supplied by bidder alongwith civil activities such as excavation, supply and laying of sand, bricks etc. Extra holes closing in glands plates with GI sheet shall be in ETC contractor scope. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Glands shall be quoted separately.</p>	1000	Meter	150.00	1,50,000.00
108	<p>4 C X 6 sq mm XLPE/Aluminium, FRLS, Armoured Power Cable</p> <p>Cabling including laying, tagging, dressing, ferruling, glanding, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates - laying can be either on trays, supports, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. Extra holes closing in glands plates with GI sheet shall be in ETC contractor scope. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Glands shall be quoted separately.</p>	2000	Meter	14.95	29,900.00

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Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
109	2 C X 6 sq mm XLPE/Aluminium, FRLS, Armoured Power Cable Cabling including laying, tagging, dressing, ferruling, glanding, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates - laying can be either on trays, supports, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. Extra holes closing in glands plates with GI sheet shall be in ETC contractor scope. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Glands shall be quoted separately.	7000	Meter	13.73	96,110.00
110	1C X 150 sq mm EPR/Copper, Fire survival, Armoured Power Cable Cabling including laying, tagging, dressing, ferruling, glanding, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates - laying can be either on trays, supports, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. Extra holes closing in glands plates with GI sheet shall be in ETC contractor scope. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Glands shall be quoted separately.	1500	Meter	50.01	75,015.00
111	1C, 1.5/2.5/4 or 2C, 2.5 SQMM PVC INSULATED STRANDED CU. WIRE Cabling including laying, tagging, dressing, ferruling, glanding, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates - laying can be either on trays, supports, Lighting Mast (LM), Structures, Towers, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. ferrules, copper lugs, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. Extra holes closing in glands plates with GI sheet shall be in ETC contractor scope. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Glands shall be quoted separately.	1000	Meter	16.17	16,170.00
112	1C x 400 Sq. mm., 19/33kV(E), Aluminium Conductor, XLPE insulated, Armoured, FRLS PVC outer sheath Power Cable complete Laying of buried cables including digging of trench & backfilling to finish the work as per IS along with supply & laying of trefoil clamps.	700	Meter	179.46	1,25,622.00

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SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
113	1C x 400 Sq. mm., 19/33kV(E), Aluminium Conductor, XLPE insulated, Armoured, FRLS PVC outer sheath Power Cable- Cable termination using indoor type cable termination kit	28	Nos.	2,051.02	57,428.56
114	19 C X 2.5 sq mm PVC/Copper, FRLS, Armoured Control Cables SUPPLY OF CABLE GLANDS: Nickel Chrome - Plated brass cable glands, double compression heavy-duty type complete with necessary armour clamp & tapered washer etc for the following cables (Bidder's Scope is to supply only & ETC is covered under cabling items) Individual quantity may vary up to any extent. Technical specifications of Cable glands to be supplied by bidder shall be as per Annexure-E1.	500	Nos.	375.20	1,87,600.00
115	14 C X 2.5 sq mm PVC/Copper, FRLS, Armoured Control Cables SUPPLY OF CABLE GLANDS: Nickel Chrome - Plated brass cable glands, double compression heavy-duty type complete with necessary armour clamp & tapered washer etc for the following cables (Bidder's Scope is to supply only & ETC is covered under cabling items) Individual quantity may vary up to any extent. Technical specifications of Cable glands to be supplied by bidder shall be as per Annexure-E1.	400	Nos.	346.35	1,38,540.00
116	10 C X 2.5 sq mm PVC/Copper, FRLS, Armoured Control Cables SUPPLY OF CABLE GLANDS: Nickel Chrome - Plated brass cable glands, double compression heavy-duty type complete with necessary armour clamp & tapered washer etc for the following cables (Bidder's Scope is to supply only & ETC is covered under cabling items) Individual quantity may vary up to any extent. Technical specifications of Cable glands to be supplied by bidder shall be as per Annexure-E1.	400	Nos.	311.71	1,24,684.00
117	7 C X 2.5 sq mm PVC/Copper, FRLS, Armoured Control Cables SUPPLY OF CABLE GLANDS: Nickel Chrome - Plated brass cable glands, double compression heavy-duty type complete with necessary armour clamp & tapered washer etc for the following cables (Bidder's Scope is to supply only & ETC is covered under cabling items) Individual quantity may vary up to any extent. Technical specifications of Cable glands to be supplied by bidder shall be as per Annexure-E1.	160	Nos.	271.30	43,408.00

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Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
118	5 C X 2.5 sq mm PVC/Copper, FRLS, Armoured Control Cables SUPPLY OF CABLE GLANDS: Nickel Chrome - Plated brass cable glands, double compression heavy-duty type complete with necessary armour clamp & tapered washer etc for the following cables (Bidder's Scope is to supply only & ETC is covered under cabling items) Individual quantity may vary up to any extent. Technical specifications of Cable glands to be supplied by bidder shall be as per Annexure-E1.	150	Nos.	230.90	34,635.00
119	5 C X 4 sq mm PVC/Copper, FRLS, Armoured Control Cables SUPPLY OF CABLE GLANDS: Nickel Chrome - Plated brass cable glands, double compression heavy-duty type complete with necessary armour clamp & tapered washer etc for the following cables (Bidder's Scope is to supply only & ETC is covered under cabling items) Individual quantity may vary up to any extent. Technical specifications of Cable glands to be supplied by bidder shall be as per Annexure-E1.	400	Nos.	230.90	92,360.00
120	10C X 2.5 sq mm EPR/Copper, Fire survival, Armoured control Cable SUPPLY OF CABLE GLANDS: Nickel Chrome - Plated brass cable glands, double compression heavy-duty type complete with necessary armour clamp & tapered washer etc for the following cables (Bidder's Scope is to supply only & ETC is covered under cabling items) Individual quantity may vary up to any extent. Technical specifications of Cable glands to be supplied by bidder shall be as per Annexure-E1.	100	Nos.	268.00	26,800.00
121	1C X 630 sq mm XLPE/Aluminium, FRLS, Armoured Auxiliary Power Cable SUPPLY OF CABLE GLANDS: Nickel Chrome - Plated brass cable glands, double compression heavy-duty type complete with necessary armour clamp & tapered washer etc for the following cables (Bidder's Scope is to supply only & ETC is covered under cabling items) Individual quantity may vary up to any extent. Technical specifications of Cable glands to be supplied by bidder shall be as per Annexure-E1.	60	Nos.	2,357.74	1,41,464.40
122	3.5C X 300 sq mm XLPE/Aluminium, FRLS, Armoured Power Cable SUPPLY OF CABLE GLANDS: Nickel Chrome - Plated brass cable glands, double compression heavy-duty type complete with necessary armour clamp & tapered washer etc for the following cables (Bidder's Scope is to supply only & ETC is covered under cabling items) Individual quantity may vary up to any extent. Technical specifications of Cable glands to be supplied by bidder shall be as per Annexure-E1.	20	Nos.	864.51	17,290.20

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Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
123	3.5C X 150 sq mm XLPE/Aluminium, FRLS, Armoured Power Cable SUPPLY OF CABLE GLANDS: Nickel Chrome - Plated brass cable glands, double compression heavy-duty type complete with necessary armour clamp & tapered washer etc for the following cables (Bidder's Scope is to supply only & ETC is covered under cabling items) Individual quantity may vary up to any extent. Technical specifications of Cable glands to be supplied by bidder shall be as per Annexure-E1.	100	Nos.	732.68	73,268.00
124	1C X 150 sq mm EPR/Copper, Fire survival, Armoured Power Cable SUPPLY OF CABLE GLANDS: Nickel Chrome - Plated brass cable glands, double compression heavy-duty type complete with necessary armour clamp & tapered washer etc for the following cables (Bidder's Scope is to supply only & ETC is covered under cabling items) Individual quantity may vary up to any extent. Technical specifications of Cable glands to be supplied by bidder shall be as per Annexure-E1.	100	Nos.	608.15	60,815.00
125	3.5 C X 70 sq mm XLPE/Aluminium, FRLS, Armoured Power Cable SUPPLY OF CABLE GLANDS: Nickel Chrome - Plated brass cable glands, double compression heavy-duty type complete with necessary armour clamp & tapered washer etc for the following cables (Bidder's Scope is to supply only & ETC is covered under cabling items) Individual quantity may vary up to any extent. Technical specifications of Cable glands to be supplied by bidder shall be as per Annexure-E1.	100	Nos.	461.78	46,178.00
126	3.5 C X 35 sq mm XLPE/Aluminium, FRLS, Armoured Power Cable SUPPLY OF CABLE GLANDS: Nickel Chrome - Plated brass cable glands, double compression heavy-duty type complete with necessary armour clamp & tapered washer etc for the following cables (Bidder's Scope is to supply only & ETC is covered under cabling items) Individual quantity may vary up to any extent. Technical specifications of Cable glands to be supplied by bidder shall be as per Annexure-E1.	100	Nos.	404.07	40,407.00
127	4 C X 16 sq mm XLPE/Aluminium, FRLS, Armoured Power Cable SUPPLY OF CABLE GLANDS: Nickel Chrome - Plated brass cable glands, double compression heavy-duty type complete with necessary armour clamp & tapered washer etc for the following cables (Bidder's Scope is to supply only & ETC is covered under cabling items) Individual quantity may vary up to any extent. Technical specifications of Cable glands to be supplied by bidder shall be as per Annexure-E1.	250	Nos.	346.35	86,587.50

Annexure-I

Bill Of Quantity Cum Price Schedule

Name of work:- Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu
Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
128	4 C X 6 sq mm XLPE/Aluminium, FRLS, Armoured Power Cable SUPPLY OF CABLE GLANDS: Nickel Chrome - Plated brass cable glands, double compression heavy-duty type complete with necessary armour clamp & tapered washer etc for the following cables (Bidder's Scope is to supply only & ETC is covered under cabling items) Individual quantity may vary up to any extent. Technical specifications of Cable glands to be supplied by bidder shall be as per Annexure-E1.	100	Nos.	274.75	27,475.00
129	2 C X 6 sq mm XLPE/Aluminium, FRLS, Armoured Power Cable SUPPLY OF CABLE GLANDS: Nickel Chrome - Plated brass cable glands, double compression heavy-duty type complete with necessary armour clamp & tapered washer etc for the following cables (Bidder's Scope is to supply only & ETC is covered under cabling items) Individual quantity may vary up to any extent. Technical specifications of Cable glands to be supplied by bidder shall be as per Annexure-E1.	100	Nos.	268.65	26,865.00
130	Supply and Installation of Fire & Water proof sealing / fire stop system / fire protection coating system required to prevent spreading of fire from one place to other place (or one zone to other zone) through the openings in wall / floor, cables laid in trays /racks and openings below Electrical Switchgear / MCC / Distribution boards /Cabinets / Panels, etc. using either Panel sealing method or Mortar sealing method (details as per Sec 3.27: FIRE STOP SYSTEM)	50	Sq.m	2,951.05	1,47,552.50
131	TRENCH MATERIAL : CABLE TRAY SUPPORTS - SINGLE CHANNEL (Single Channel support (SC1) of standard length 6 m. (Drawing No. PE-DG-435-507-E006 Rev01 Page 2 of 26))	348	nos.	1,640.17	5,70,779.16

Annexure-I

Bill Of Quantity Cum Price Schedule

Name of work:- Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
132	TRENCH MATERIAL : CABLE TRAY SUPPORTS - DOUBLE CHANNEL (Double Channel support (DC1) of standard length 6 m. (Drawing No. PE-DG-435-507-E006 Rev01 Page 2 of 26))	10	nos.	2,460.26	24,602.60
133	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAY SUPPORTS - CANTILEVER ARM FOR CABLE TRAY 750 MM WIDE (Cantilever arm (CA1) complete with 2 nos. 12 mm dia (M12) bolts with spring nuts and washers, 2 nos. 6 mm dia (M6) pan head screws with long spring nuts and washers suitable for ladder type cable tray 750 mm wide. (Drawing No. PE-DG-435-507-E006 Rev01 Page 3 of 26))	1	nos.	341.70	341.70
134	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAY SUPPORTS - CANTILEVER ARM FOR CABLE TRAY 600 MM WIDE (Cantilever arm (CA2) complete with 2 nos. 12 mm dia (M12) bolts with spring nuts and washers, 2 nos. 6 mm dia (M6) pan head screws with long spring nuts and washers suitable for ladder type cable tray 600 mm wide. (Drawing No. PE-DG-435-507-E006 Rev01 Page 3 of 26))	318	nos.	273.36	86,928.48
135	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAY SUPPORTS - CANTILEVER ARM FOR CABLE TRAY 450 MM WIDE (Cantilever arm (CA3) complete with 2 nos. 12 mm dia (M12) bolts with spring nuts and washers, 2 nos. 6 mm dia (M6) pan head screws with long spring nuts and washers suitable for ladder type cable tray 450 mm wide. (Drawing No. PE-DG-435-507-E006 Rev01 Page 3 of 26))	1	nos.	205.02	205.02
136	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAY SUPPORTS - CANTILEVER ARM FOR CABLE TRAY 300 MM WIDE (Cantilever arm (CA4) complete with 2 nos. 12 mm dia (M12) bolts with spring nuts and washers, 2 nos. 6 mm dia (M6) pan head screws with long spring nuts and washers suitable for ladder type cable tray 300 mm wide. (Drawing No. PE-DG-435-507-E006 Rev01 Page 3 of 26))	1	nos.	136.68	136.68
137	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAY SUPPORTS - CANTILEVER ARM FOR CABLE TRAY 150 MM WIDE (Cantilever arm (CA5) complete with 2 nos. 12 mm dia (M12) bolts with spring nuts and washers, 2 nos. 6 mm dia (M6) pan head screws with long spring nuts and washers suitable for ladder type cable tray 150 mm wide. (Drawing No. PE-DG-435-507-E006 Rev01 Page 3 of 26))	1	nos.	68.34	68.34
138	TRENCH MATERIAL : CLAMPS AND FITTINGS FOR CABLE TRAY SUPPORTS - 90° ANGLE FITTING (HL1) (90° Angle fitting (HL1) complete with fixing hardware (Drawing No. PE-DG-435-507-E006 Rev01 Page 4 of 26))	1721	nos.	25.00	43,025.00
139	TRENCH MATERIAL : CLAMPS AND FITTINGS FOR CABLE TRAY SUPPORTS - CLAMP FOR SINGLE CHANNEL (Clamp for single channel (CC1) complete with 2 nos. 10 mm dia (M10) Anchor bolt & 1 No.12 mm dia (M12) bolts with spring nuts and washers (Drawing No. PE-DG-435-507-E006 Rev01 Page 5 & 13 of 26))	681	nos.	25.00	17,025.00

Annexure-I

Bill Of Quantity Cum Price Schedule

Name of work:- Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu
Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
140	TRENCH MATERIAL : CLAMPS AND FITTINGS FOR CABLE TRAY SUPPORTS - CLAMP FOR DOUBLE CHANNEL (Clamp for double channel (CC2) complete with 2 nos. 10 mm dia (M10) Anchor bolt & 1 No.12 mm dia (M12) bolts with spring nuts and washers (Drawing No. PE-DG-435-507-E006 Rev01 Page 5 & 13 of 26))	1	nos.	30.00	30.00
141	TRENCH MATERIAL : CLAMPS AND FITTINGS FOR CABLE TRAY SUPPORTS - BASE PLATE FOR SINGLE CHANNEL (Base plate for single channel (BP1) complete with 1 nos. Anchor fastner & 1 No.12 mm dia (M12) bolts with spring nuts and washers (Drawing No. PE-DG-435-507-E006 Rev01 Page 6 of 26))	178	nos.	25.00	4,450.00
142	TRENCH MATERIAL : CLAMPS AND FITTINGS FOR CABLE TRAY SUPPORTS - BASE PLATE FOR DOUBLE CHANNEL (Base plate for double channel (BP2) complete with 2 nos. Anchor fastner & 2 No.12 mm dia (M12) bolts with spring nuts and washers (Drawing No. PE-DG-435-507-E006 Rev01 Page 7 of 26))	10	nos.	30.00	300.00
143	TRENCH MATERIAL : CLAMPS AND FITTINGS FOR CABLE TRAY SUPPORTS - BEAM CLAMP (Beam Clamp (BC1) complete with fixing hardware (Drawing No. PE-DG-435-507-E006 Rev01 Page 8 of 26))	1	nos.	25.00	25.00
144	TRENCH MATERIAL : CLAMPS AND FITTINGS FOR CABLE TRAY SUPPORTS - TRAY FIXING CLAMP (Tray fixing clamp (TC1) complete with fixing hardware (Drawing No. PE-DG-435-507-E006 Rev01 Page 9 of 26))	50	nos.	25.00	1,250.00
145	TRENCH MATERIAL : CLAMPS AND FITTINGS FOR CABLE TRAY SUPPORTS - 90° ANGLE FITTING (LA1) (90° Angle fitting (LA1) complete with fixing hardware (Drawing No. PE-DG-435-507-E006 Rev01 Page 10 of 26))	10	nos.	25.00	250.00
146	TRENCH MATERIAL : CLAMPS AND FITTINGS FOR CABLE TRAY SUPPORTS - FLAT PLATE TEE FITTINGS (Flat plate Tee Fittings (PF1) complete with fixing hardware (Drawing No. PE-DG-435-507-E006 Rev01 Page 10 of 26))	10	nos.	25.00	250.00
147	TRENCH MATERIAL : CLAMPS AND FITTINGS FOR CABLE TRAY SUPPORTS - FLAT PLATE STRAIGHT FITTING (Flat plate straight fitting (PF2) complete with fixing hardware (Drawing No. PE-DG-435-507-E006 Rev01 Page 10 of 26))	10	nos.	25.00	250.00
148	TRENCH MATERIAL : CLAMPS AND FITTINGS FOR CABLE TRAY SUPPORTS - EARTH FLAT FIXING CLAMP (Earth Flat fixing clamp (Z) complete with fixing hardware (Drawing No. 0350-215-PVE-B-001 Rev00 Page 18 of 21))	180	nos.	25.00	4,500.00
149	TRENCH MATERIAL : CLAMPS AND FITTINGS FOR CABLE TRAY SUPPORTS - PVC END CAP FOR SINGLE CHANNEL (PVC End Cap for single channel (Drawing No. 0350-215-PVE-B-001 Rev00 Page 20 of 21))	318	nos.	25.00	7,950.00

Annexure-I

Bill Of Quantity Cum Price Schedule

Name of work:- Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
150	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - CABLE TRAY 750 MM WIDE (Ladder type cable tray 750 mm wide, 100 mm high, 2 mm thick (min.) galvanised iron slotted rung 2.5 m long each with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling two trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 2 & 3 OF 34))	67	nos.	132.89	8,903.63
151	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - CABLE TRAY 600 MM WIDE (Ladder type cable tray 600 mm wide, 100 mm high, 2 mm thick (min.) galvanised iron slotted rung 2.5 m long each with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling two trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 2 & 3 OF 34))	136	nos.	122.69	16,685.84
152	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - CABLE TRAY 450 MM WIDE (Ladder type cable tray 450 mm wide, 100 mm high, 2 mm thick (min.) galvanised iron slotted rung 2.5 m long each with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling two trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 2 & 3 OF 34))	32	nos.	112.48	3,599.36
153	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - CABLE TRAY 300 MM WIDE (Ladder type cable tray 300 mm wide, 100 mm high, 2 mm thick (min.) galvanised iron slotted rung 2.5 m long each with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling two trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 2 & 3 OF 34))	1	nos.	102.28	102.28
154	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - CABLE TRAY 150 MM WIDE (Ladder type cable tray 150 mm wide, 100 mm high, 2 mm thick (min.) galvanised iron slotted rung 2.5 m long each with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling two trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 2 & 3 OF 34))	1	nos.	92.07	92.07
155	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - CABLE TRAY COVER FOR CABLE TRAY 750 MM WIDE (Cable tray cover for Ladder type cable tray 750 mm wide, complete with fixing hardware & accessories as per drawing (Drawing No. PE-DG-435-507-E005 Rev01 Page 5 OF 34))	23	nos.	132.89	3,056.47
156	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - CABLE TRAY COVER FOR CABLE TRAY 600 MM WIDE (Cable tray cover for Ladder type cable tray 600 mm wide, complete with fixing hardware & accessories as per drawing (Drawing No. PE-DG-435-507-E005 Rev01 Page 5 OF 34))	46	nos.	122.69	5,643.74
157	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - CABLE TRAY COVER FOR CABLE TRAY 450 MM WIDE (Cable tray cover for Ladder type cable tray 450 mm wide, complete with fixing hardware & accessories as per drawing (Drawing No. PE-DG-435-507-E005 Rev01 Page 5 OF 34))	11	nos.	112.48	1,237.28

Annexure-I

Bill Of Quantity Cum Price Schedule

Name of work:- Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu
Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
158	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - CABLE TRAY COVER FOR CABLE TRAY 300 MM WIDE (Cable tray cover for Ladder type cable tray 300 mm wide, complete with fixing hardware & accessories as per drawing (Drawing No. PE-DG-435-507-E005 Rev01 Page 5 OF 34))	1	nos.	102.28	102.28
159	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - CABLE TRAY COVER FOR CABLE TRAY 150 MM WIDE (Cable tray cover for Ladder type cable tray 150 mm wide, complete with fixing hardware & accessories as per drawing (Drawing No. PE-DG-435-507-E005 Rev01 Page 5 OF 34))	1	nos.	92.07	92.07
160	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - HORIZONTAL TEE FOR CABLE TRAY 750 MM WIDE (Horizontal Tee for Ladder type cable tray 750 mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 6 OF 34))	10	nos.	132.29	1,322.90
161	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - HORIZONTAL TEE FOR CABLE TRAY 600 MM WIDE (Horizontal Tee for Ladder type cable tray 600 mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 6 OF 34))	12	nos.	122.11	1,465.32
162	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - HORIZONTAL TEE FOR CABLE TRAY 450 MM WIDE (Horizontal Tee for Ladder type cable tray 450 mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 6 OF 34))	4	nos.	111.94	447.76
163	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - HORIZONTAL TEE FOR CABLE TRAY 300 MM WIDE (Horizontal Tee for Ladder type cable tray 300 mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 6 OF 34))	1	nos.	101.76	101.76
164	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - HORIZONTAL TEE FOR CABLE TRAY 150 MM WIDE (Horizontal Tee for Ladder type cable tray 150 mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 6 OF 34))	1	nos.	91.58	91.58

Annexure-I

Bill Of Quantity Cum Price Schedule

Name of work:- Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
165	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - LEFT HAND REDUCER FOR CABLE TRAY 750 MM WIDE TO 600 MM WIDE (Left Hand Reducer for cable tray 750 mm wide to 600 mm Wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 6 OF 34))	5	nos.	122.11	610.55
166	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - RIGHT HAND REDUCER FOR CABLE TRAY 750 MM WIDE TO 600 MM WIDE (Right Hand Reducer for cable tray 750 mm wide to 600 mm Wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 6 OF 34))	5	nos.	122.11	610.55
167	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - LEFT HAND REDUCER FOR CABLE TRAY 600 MM WIDE TO 450 MM WIDE (Left Hand Reducer for cable tray 600 mm wide to 450 mm Wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 6 OF 34))	8	nos.	122.11	976.88
168	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - RIGHT HAND REDUCER FOR CABLE TRAY 600 MM WIDE TO 450 MM WIDE (Right Hand Reducer for cable tray 600 mm wide to 450 mm Wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 6 OF 34))	4	nos.	122.11	488.44
169	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - HORIZONTAL CROSS FOR CABLE TRAY 600 MM WIDE (Horizontal Cross for Ladder type cable tray 600 mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 7 OF 34))	1	nos.	122.11	122.11
170	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - HORIZONTAL CROSS FOR CABLE TRAY 450 MM WIDE (Horizontal Cross for Ladder type cable tray 450 mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 7 OF 34))	1	nos.	111.94	111.94
171	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - HORIZONTAL CROSS FOR CABLE TRAY 300 MM WIDE (Horizontal Cross for Ladder type cable tray 300 mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 7 OF 34))	1	nos.	101.76	101.76

Annexure-I

Bill Of Quantity Cum Price Schedule

Name of work:- Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
172	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - HORIZONTAL CROSS FOR CABLE TRAY 150 MM WIDE (Horizontal Cross for Ladder type cable tray 150 mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 7 OF 34))	1	nos.	91.58	91.58
173	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - 90° HORIZONTAL BEND FOR CABLE TRAY 750MM WIDE (90° Horizontal bend for Ladder type cable tray 750mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 8 OF 34))	20	nos.	132.29	2,645.80
174	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - 90° HORIZONTAL BEND FOR CABLE TRAY 600MM WIDE (90° Horizontal bend for Ladder type cable tray 600mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 8 OF 34))	16	nos.	122.11	1,953.76
175	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - 90° HORIZONTAL BEND FOR CABLE TRAY 450MM WIDE (90° Horizontal bend for Ladder type cable tray 450mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 8 OF 34))	1	nos.	111.94	111.94
176	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - 90° HORIZONTAL BEND FOR CABLE TRAY 300MM WIDE (90° Horizontal bend for Ladder type cable tray 300mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 8 OF 34))	1	nos.	101.76	101.76
177	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - 90° HORIZONTAL BEND FOR CABLE TRAY 150MM WIDE (90° Horizontal bend for Ladder type cable tray 150mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 8 OF 34))	1	nos.	91.58	91.58
178	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - 90° VERTICAL BEND (INSIDE) FOR CABLE TRAY 750MM WIDE (90° Vertical bend (Inside) for Ladder type cable tray 750mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 8 OF 34))	12	nos.	132.29	1,587.48
179	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - 90° VERTICAL BEND (INSIDE) FOR CABLE TRAY 600MM WIDE (90° Vertical bend (Inside) for Ladder type cable tray 600mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 8 OF 34))	12	nos.	122.11	1,465.32

Annexure-I

Bill Of Quantity Cum Price Schedule

Name of work:- Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
180	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - 90° VERTICAL BEND (INSIDE) FOR CABLE TRAY 450MM WIDE (90° Vertical bend (Inside) for Ladder type cable tray 450mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 8 OF 34))	1	nos.	111.94	111.94
181	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - 90° VERTICAL BEND (INSIDE) FOR CABLE TRAY 300MM WIDE (90° Vertical bend (Inside) for Ladder type cable tray 300mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 8 OF 34))	1	nos.	101.76	101.76
182	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - 90° VERTICAL BEND (INSIDE) FOR CABLE TRAY 150MM WIDE (90° Vertical bend (Inside) for Ladder type cable tray 150mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 8 OF 34))	1	nos.	91.58	91.58
183	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - 90° VERTICAL BEND (OUTSIDE) FOR CABLE TRAY 750MM WIDE (90° Vertical bend (outside) for Ladder type cable tray 750mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 8 OF 34))	12	nos.	132.29	1,587.48
184	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - 90° VERTICAL BEND (OUTSIDE) FOR CABLE TRAY 600MM WIDE (90° Vertical bend (outside) for Ladder type cable tray 600mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 8 OF 34))	12	nos.	122.11	1,465.32
185	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - 90° VERTICAL BEND (OUTSIDE) FOR CABLE TRAY 450MM WIDE (90° Vertical bend (outside) for Ladder type cable tray 450mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 8 OF 34))	1	nos.	111.94	111.94
186	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - 90° VERTICAL BEND (OUTSIDE) FOR CABLE TRAY 300MM WIDE (90° Vertical bend (outside) for Ladder type cable tray 300mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 8 OF 34))	1	nos.	101.76	101.76

Annexure-I

Bill Of Quantity Cum Price Schedule

Name of work:- Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
187	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - 90° VERTICAL BEND (OUTSIDE) FOR CABLE TRAY 150MM WIDE (90° Vertical bend (outside) for Ladder type cable tray 150mm wide with 4 nos. coupler plate, 3 mm thick (min.) along with 8 mm dia (M8) bolts with nuts and washers for coupling with trays (Drawing No. PE-DG-435-507-E005 Rev01 Page 8 OF 34))	1	nos.	91.58	91.58
188	TRENCH MATERIAL : LADDER TYPE TRAY, CABLE TRAYS, FITTINGS AND ACCESSORIES - COUPLER PLATE FOR CABLE TRAY (Coupler plate complete with fixing hardware (Drawing No. PE-DG-435-507-E005 Rev01 Page 3 OF 34))	48	nos.	25.00	1,200.00
189	Galvanised steel Lattice Structures including hardwares for Towers, beams & equipment support - In Switchyard Area	250	MT	4,085.22	10,21,305.00
190	Galvanised steel Pipe Structures including hardwares for equipment support	100	MT	3,449.75	3,44,975.00
191	Supply and Installation of Panel Supporting Angles / Channel / Chequered Plates etc. Structural Steel Work welded in built up sections like angles, channels & framed work etc including providing cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	5	MT	65,504.51	3,27,522.55
192	75 x 8 mm GI Flat Earthing material- The earthing includes earthing (as per approved earthing drgs and customer specification) of all switchyard equipment, towers, pipe structure, cable trenches, fence, pipe electrode , Control room equipments using necessary connectors for earthing flats. Earthing clamping shall be carried out by ETC contractor. GS strip including cutting, bending, welding with 40 mm dia MS rod riser/earth strip, applying zinc rich paint, clamping to structure/building wall etc. to complete. Hardware required for connecting flat on pads of structure & equipment included in scope. The Earthing of equipments shall be carried out as per equipment earthing drg.	17	MT	10,123.21	1,72,094.57
193	50 x 6 mm GI Flat Earthing material- The earthing includes earthing (as per approved earthing drgs and customer specification) of all switchyard equipment, towers, pipe structure, cable trenches, fence, pipe electrode , Control room equipments using necessary connectors for earthing flats. Earthing clamping shall be carried out by ETC contractor. GS strip including cutting, bending, welding with 40 mm dia MS rod riser/earth strip, applying zinc rich paint, clamping to structure/building wall etc. to complete. Hardware required for connecting flat on pads of structure & equipment included in scope. The Earthing of equipments shall be carried out as per equipment earthing drg.	10	MT	10,123.21	1,01,232.10

Annexure-I

Bill Of Quantity Cum Price Schedule

Name of work:- Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
194	25 x 6 mm GI Flat Earthing material- The earthing includes earthing (as per approved earthing drgs and customer specification) of all switchyard equipment, towers, pipe structure, cable trenches, fence, pipe electrode , Control room equipments using necessary connectors for earthing flats. Earthing clamping shall be carried out by ETC contractor. GS strip including cutting, bending, welding with 40 mm dia MS rod riser/earth strip, applying zinc rich paint, clamping to structure/building wall etc. to complete. Hardware required for connecting flat on pads of structure & equipment included in scope. The Earthing of equipments shall be carried out as per equipment earthing drg.	2	MT	10,123.21	20,246.42
195	3 m long 40mm dia MS Rod earth electrode with test earth pit cutting and laying of 3 m vertical rod electrode as per approved drawing to complete vertical electrode earthing work. including following works: - excavation - installing the rod electrode - backfilling and compaction - Casting the Test Pit with Cast Iron covers - any other work necessary to complete the work (40 mm dia MS rod will be supplied by BHEL)	70	Nos.	4,654.63	3,25,823.75
196	Supply & Installation of 65mm diameter galvanised steel Pipe Electrode (to be driven - 3.0 Mtr) including following works: - excavation - installing the pipe electrode with alternate layers of Coke/charcoal and salt - backfilling and compaction - Casting the Test Pit with Cast Iron covers - any other work necessary to complete the work Material supply & work to be done as per BHEL issued drawing.	10	Nos.	10,100.64	1,01,006.45
197	420 KV GIS Mandatory Spares (ref. S1) Unloading, storage & handing over of Essential/ Mandatory spares to Customer as per ANNEXURE: SPARE_LIST. The spare list is provisional and minor changes may occur during detailed engineering stage.	1	Lot	41,961.02	41,961.02
198	420 KV GIS Tools and Tackles (ref. S2) Unloading, storage & handing over of Essential/ Mandatory spares to Customer as per ANNEXURE: SPARE_LIST. The spare list is provisional and minor changes may occur during detailed engineering stage.	1	Lot	12,821.84	12,821.84
199	420kV, 125MVar , 3-Ph, Bus Reactor (ref. S3) Unloading, storage & handing over of Essential/ Mandatory spares to Customer as per ANNEXURE: SPARE_LIST. The spare list is provisional and minor changes may occur during detailed engineering stage.	1	Lot	12,211.28	12,211.28

Annexure-I

Bill Of Quantity Cum Price Schedule

Name of work:- Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
200	LT SWITCHGEAR/MCCs/DISTRIBUTION BOARDS (ref. S4) Unloading, storage & handing over of Essential/ Mandatory spares to Customer as per ANNEXURE: SPARE_LIST. The spare list is provisional and minor changes may occur during detailed engineering stage.	1	Lot	6,834.04	6,834.04
201	Dry type Transformer (ref. S5) Unloading, storage & handing over of Essential/ Mandatory spares to Customer as per ANNEXURE: SPARE_LIST. The spare list is provisional and minor changes may occur during detailed engineering stage.	1	Lot	6,834.04	6,834.04
202	Battery (ref. S6) Unloading, storage & handing over of Essential/ Mandatory spares to Customer as per ANNEXURE: SPARE_LIST. The spare list is provisional and minor changes may occur during detailed engineering stage.	1	Lot	2,870.30	2,870.30
203	Battery charger (ref. S7) Unloading, storage & handing over of Essential/ Mandatory spares to Customer as per ANNEXURE: SPARE_LIST. The spare list is provisional and minor changes may occur during detailed engineering stage.	1	Lot	4,100.43	4,100.43
204	Lighting (Illumination) System supply material including Spares (ref. S8) Unloading, storage, movement of complete illumination material to work location (handling) alongwith handing over Essential/ Mandatory spares to Customer is included in this scope. Illumination material BOQ including spares is as per ANNEXURE: SPARE_LIST. The list is provisional and minor changes may occur during detailed engineering stage.	1	Lot	12,211.28	12,211.28
205	Substation Automation (ref. S9) Unloading, storage & handing over of Essential/ Mandatory spares to Customer as per ANNEXURE: SPARE_LIST. The spare list is provisional and minor changes may occur during detailed engineering stage.	1	Lot	6,834.04	6,834.04
206	OPGW Communication equipment (ref. S10) Unloading, storage & handing over of Essential/ Mandatory spares to Customer as per ANNEXURE: SPARE_LIST. The spare list is provisional and minor changes may occur during detailed engineering stage.	1	Lot	6,105.64	6,105.64
207	Control / Relay / SAS Panel Spare including relays (ref. S11) Unloading, storage & handing over of Essential/ Mandatory spares to Customer as per ANNEXURE: SPARE_LIST. The spare list is provisional and minor changes may occur during detailed engineering stage.	1	Lot	6,834.04	6,834.04
208	336 kV, 1 Phase Surge Arrester Unloading, storage & handing over of Essential/ Mandatory spares to Customer. The spare list is provisional and minor changes may occur during detailed engineering stage.	3	No.	1,366.81	4,100.43

Annexure-I

Bill Of Quantity Cum Price Schedule

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Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
209	400 KV GT Installing terminal connector (switchyard side) wherever equipment installation is not in scope of contractor. Connectors shall be provided by BHEL.	6	Nos.	2,121.10	12,726.60
210	400 KV ST Installing terminal connector (switchyard side) wherever equipment installation is not in scope of contractor. Connectors shall be provided by BHEL.	3	Nos.	2,121.10	6,363.30
211	Supply & ETC of CUSTOMER/BHEL approved make 2.0 HP Automatic Start/ Stop type Centrifugal pump and accessories for sump pit	1	Nos.	14,755.28	14,755.28
212	Supply & ETC of CUSTOMER/BHEL approved make 1.0 HP Automatic Start/ Stop type Centrifugal pump and accessories for sump pit	1	Nos.	13,668.09	13,668.09
213	Supply & ETC of CUSTOMER/BHEL approved make 0.5 HP Automatic Start/ Stop type Centrifugal pump and accessories for sump pit	1	Nos.	8,853.17	8,853.17
214	Supply & Mounting of Phase Color Discs, Danger Plate and Identification Plates for bays & Equipments as per IS:2551; 1982 & IS:5; 1978.	1	Lot	1,47,552.87	1,47,552.87
215	Supply & ETC of Equipment Fixing Hardware - Full Threaded bolts with nut and two Plane Washer and one Spring Washer (Supply of equipment fixing hardware as per specification TB-XXX-618-002a).	150	kg	109.34	16,401.00
216	INSULATION MAT: The scope covers supply and laying of insulating mats conforming to International standards. These insulating mats shall be laid in front of all floor mounted AC and DC switchboards and control & relay panels located in control room building/ Switchyard panel room / GIS LCC Panel e.t.c.refer scope note for details	100	Sq.m	1,805.90	1,80,590.00
217	Making Cut out in the floor of control room, work includes cutting RCC & finishing	10	Sq.m	704.41	7,044.10
218	Supply of required size (M12/M16/M20 upto 150mm long) of Anchor Fastner /Bolts and fixing in Concrete/wall/ceiling wherever required.	25	kg	149.88	3,747.00
219	Watch & ward of stored / erected / commissioned material at storage area, project site, erection area or any other locations as per material safety requirement and instruction of site in-charge complete in all aspect. (round the clock security by authorized service agency consisting of armed guard).	18	Per post per Month	48,375.63	8,70,761.34
220	3 Ton Single Girder EOT Crane (Girder, motor assembly, panel, cable, square bar rail, etc.) - Receipt of material, unloading, safe storage of all material/components of EOT crane and handling from storage point to GIS Hall	1	Set	1,558.10	1,558.10

Annexure-I

Bill Of Quantity Cum Price Schedule

Name of work:- Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu
Name of Project:- 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu

SR_NO	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Amount (Rs.)
221	Construction of Civil Foundation for Illumination system items i.e. Lighting Panels / Pole etc with M30 Cement Concrete, ratio (CUSTOMER approved) complete in all respect including excavation / backfilling / compaction / Supply of construction material etc. complete. Civil foundation for high mast is not in bidders scope.	50	Cum	9,274.72	4,63,736.00
222	Cutting and Modification - Structural Plates Structure Modification - All tools and tackles required for GI structure, any other steel structure modification, Aluminium Items etc. shall be in the scope of bidder. Cutting , drilling, punching, minor civil works also included in the scope. Minor welding and application of protective / zinc rich paint on welded surface is also included in the scope.	50	kg	25.27	1,263.50
223	Modification of Hole Sizes in Structures Structure Modification - All tools and tackles required for GI structure, any other steel structure modification, Aluminium Items etc. shall be in the scope of bidder. Cutting , drilling, punching, minor civil works also included in the scope. Minor welding and application of protective / zinc rich paint on welded surface is also included in the scope.	50	Nos.	60.64	3,032.00
224	Drilling of Additional Holes in Structures Structure Modification - All tools and tackles required for GI structure, any other steel structure modification, Aluminium Items etc. shall be in the scope of bidder. Cutting , drilling, punching, minor civil works also included in the scope. Minor welding and application of protective / zinc rich paint on welded surface is also included in the scope.	50	Nos.	60.64	3,032.00
225	Supply & ETC-light coloured venetian blind complete with all fixing & operating accessories	50	Sq.m	1,816.41	90,820.50
Total Amount in Rs. (Excluding GST)					274,19,818.57

Price Schedule / Price Bid

NAME OF WORK :- RECEIPT OF EQUIPMENT/ MATERIAL AT SITE, UNLOADING, RECONCILIATION, INSPECTION, VERIFICATION, STORAGE, UP-KEEPING DURING STORAGE, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF 400 KV GIS SWITCHYARD AT 2 X660 MW UDANGUDI SUPERCRITICAL THERMAL POWER PROJECT IN TAMILNADU.

TENDER SPECIFICATION NO.:-TBSM/UDANGUDI /ETC/TENDER /20-21 DATE 25.02.2021

Name of Bidder						
(This BOQ template must not modified/ Replaced by the bidder and same shall be uploaded after filling the relevant columns , else the bidder is liable to be rejected for this tender. Bidders has to be fill the Bidder Name and values only)						
Sl No.	Item Description	Quantity	Units	Estimated Rate in Rs.	Total Amount Without taxes (Rs.)	Total Amount (in words)
1	Total amount as per rates in BOQ (as per Annexure-I) for "Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of 400 kV GIS Switchyard at 2 X660 MW Udangudi Supercritical Thermal Power Project in Tamilnadu. "- Excluding GST	1.00	Nos	274,19,818.57	274,19,818.57	Rs. Two Crore Seventy Four Lakhs Nineteen Thousand Eight Hundred Eighteen and Paisa Fifty Seven Only
Total in Figures					274,19,818.57	Rs. Two Crore Seventy Four Lakhs Nineteen Thousand Eight Hundred Eighteen and Paisa Fifty Seven Only
Quoted Rate in Figures			Select	Excess/Less/ at par		
Quoted Rate in Words						