

BILL OF QUANTITIES CUM PRICE SCHEDULE (Annexure-I)					
Name of the 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 Switchyard at Sagardighi Unit-5 Project in West Bengal					
Customer:- WEST BENGAL POWER DEVELOPMENT CORPORATION LTD.					
Tender Specification No. : TBSM/ SAGARDIGHI-UNIT-5/ETC/TENDER/21-22 Date: 03.01.2022					
Sl. No.	Description of Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
1	1000 kVA, 11/0.433KV, LT Auxillary dry type Transformer. Work includes (placement inside LT Switchgear Room) erection of all auxiliaries, viz bushings, cable boxes etc.	2	Nos.	21,803.16	43,606.32
2	400kV, 3-Phase SF6 Circuit Breaker without PIR along with lattice type GI supporting structure, platform with ladder, terminal connectors, Breaker Control Cabinets and interpole cabling, SF6 Gas cylinders. (Supervision of Erection, Testing and commissioning will be done by supplier. Supplier will bring Breaker timing kit and Gas leak detector only. Necessary manpower support, tools, tackles and testing kits is in the scope of ETC contractor).	4	Nos.	70,634.05	2,82,536.20
3	CSD (Control switching device) for 400kV 3 Phase, Circuit Breaker. (Supervision of Erection, Testing and commissioning will be done by supplier. Necessary manpower support, tools, tackles and testing kits is in the scope of ETC contractor). Work includes installation of CSD in respective Relay Panel & minor modification / panel wiring in circuit breaker and relay panel.	2	Nos.	4,865.74	9,731.48
4	Laying of Special cable (for Control Switching Device) between SF6, 3 Ph Circuit Breaker (in Yard) and Relay Panel (in Panel/Control Room)	1000	m	30.97	30,970.00
5	400kV, 3-Phase, HDB Isolator with one earth switch (motor operated) electrically ganged, complete with 9 nos. of support insulators & terminal connectors (without support structure).	12	Nos.	35,317.01	4,23,804.12
6	400kV, 1 Ph., Current Transformer, live tank, oil-filled, complete with terminal connectors without support structure.	18	Nos.	12,360.94	2,22,496.92
7	400kV, 1 Ph., CVT, complete with terminal connectors without support structure.	3	Nos.	12,360.94	37,082.82
8	360kV, 1 Phase, Gapless type Metal Oxide Surge Arrester complete with surge counter, leakage current meter, insulating base, connecting cable/strip and terminal connectors without support structure.	6	Nos.	4,412.50	26,475.00
9	400kV, 1 Ph., 8kN, BPI (Solid core Bus Post insulator) with corona ring complete with terminal connectors without support structure (low level (upto 8 m height from plinth))	48	Nos.	1,881.30	90,302.40
10	400kV, 1 Ph., 8kN, BPI (Solid core Bus Post insulator) with corona ring complete with terminal connectors without support structure (high level (8 m to 12.5 m height from plinth))	6	Nos.	2,508.41	15,050.46
11	DGA Test for CT Oil – Scope includes sampling of oil from CT (sample bottle, syringe etc for DGA test is NOT in the scope of bidder) under supervision of OEM / BHEL. Bidder's scope covers all supports for sampling, safely delivery and submission of test sample to laboratory, getting it tested and submission of test report to BHEL. Laboratory charges shall in the scope of bidder.	18	Nos.	2,043.61	36,784.98

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Name of the 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 Switchyard at Sagardighi Unit-5 Project in West Bengal					
Customer:- WEST BENGAL POWER DEVELOPMENT CORPORATION LTD.					
Tender Specification No. : TBSM/ SAGARDIGHI-UNIT-5/ETC/TENDER/21-22 Date: 03.01.2022					
Sl. No.	Description of Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
12	GI Lattice Structures including hardware for Towers, beams, LM & equipments support	210	MT	5,673.23	11,91,378.30
13	GI Latice/Pipe Structures including hardware for equipments support	1	MT	3,651.82	3,651.82
14	Supplying of galvansied structure hardware of M16 including bolts, nuts, plain washers, spring washers, step bolts of varies length as per site requirement and as per Specification no. TB xxx 618 002a R06 (Refer Annexure-6). (Note: Fully threaded bolts shall not be used).	1	MT	1,80,961.26	1,80,961.26
15	Supply of Equipment fixing hardware (hot dip galvanized) including nut, bolt and plain /spring washer as per Site requirement (Erection shall be covered with respective equipment support structure) 1. Bolts - Class 5.6 of IS:1367 (part 3) - 1991 (M12-M33, 30-145mm lg. & fully threaded). 2. Nuts - Class 5 of IS:1367 (part 6) - 1980. 3. Plain Washers - A type conforming to IS: 2016-1967. 4. Spring Washer - Type B of IS: 3063-1972 Note - Size of hardware shall be suitable for equipments /box/JB, and same shall be decided at site.	150	kg	98.95	14,842.50
16	400kV Double Tension Stringing Hardware - with/ without Turn Buckle, with 2 numbers Polymer Long Rod Insulator, suitable for Quad/twin conductor.	54	Set	3,981.22	2,14,985.88
17	400kV Single Suspension Stringing Hardware - with through / drop type clamp, 1 number Polymer Long Rod Insulator, suitable for Quad/twin conductor.	27	Set	3,257.36	87,948.72
18	ACSR Moose Conductor complete with Tee connectors for droppers to equipment connections, PG clamps for Busbar jumpering, Twin/Quad bundle rigid/flexible spacers etc to complete	7.5	kM	81,433.90	6,10,754.25
19	6" Al Tube (ETC of Al.Tube includes cutting, Aluminum welding, testing, bending & installation of Al. Tube). Welding sleeve and Al. tube will be supplied by BHEL)	510	Meter	565.51	2,88,410.10
20	4.5" Al Tube (ETC of Al.Tube includes cutting, Aluminum welding, testing, bending & installation of Al. Tube). Welding sleeve and Al. tube will be supplied by BHEL)	360	Meter	452.41	1,62,867.60
21	SUPPLY: Supply of Galvanized Steel Earth Wire - 7/8 SWG Stranded Shield Wire (overall dia 12 mm, Customer accepted. ETC is covered under a separate BOQ line item)	1900	Meter	101.77	1,93,363.00
22	Installation of 7/8 SWG GI Stranded Shield wire including tension clamp, PG clamp and clamping on structure for down conductor, fixing/bolting with earth strip etc to complete.	1900	Meter	63.33	1,20,327.00
23	400kV Terminal Connector. - Dismantling of terminal connectors at customer supplied/ erected items whereas erection of equipments are not in scope of contractor.	6	Nos.	107.23	643.38
24	400kV Terminal Connector. - Installation of terminal connectors at customer supplied/ erected items whereas erection of equipments are not in scope of contractor. Terminal connectors shall be provided by BHEL.	6	Nos.	2,099.74	12,598.44
25	BMK - Bay Marshalling Kiosks (Outdoor type, Floor / Trench mounted)	4	Nos.	4,199.49	16,797.96
26	CTJB - Junction Box (on CT structure)	6	Nos.	2,713.71	16,282.26

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Name of the 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 Switchyard at Sagardighi Unit-5 Project in West Bengal

Customer:- WEST BENGAL POWER DEVELOPMENT CORPORATION LTD.

Tender Specification No. : TBSM/ SAGARDIGHI-UNIT-5/ETC/TENDER/21-22 Date: 03.01.2022

Sl. No.	Description of Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
27	CVTJB - Junction Box (on CVT structure)	1	Nos.	2,713.71	2,713.71
28	a) 400kV ST-5 Bay protection cum control panel (STRP) (1 set = 1 panel)	1	Set	6,271.00	6,271.00
29	b) 400kV Tie Bay protection panel (TRP) (1 set = 1 panel)	2	Set	6,271.00	12,542.00
30	c) 400kV GT-5 Bay protection cum control panel (GTRP) (1 set = 1 panel)	1	Set	6,271.00	6,271.00
31	d) Busbar Relay Panel (BBRP1 & 2) (1 set = 2 panel)	1	Set	12,542.01	12,542.01
32	e) Bay Control unit (1 set = 1 unit)	4	Set	6,271.00	25,084.00
33	f) Networking Panel (1 set = 1 panel)	1	Set	6,271.00	6,271.00
34	g) Metering Panel (1 set = 1 panel)	1	Set	6,271.00	6,271.00
35	h) Operator work station (OWS) for Energy & Relay metering system	2	No.	904.82	1,809.64
36	i) Engineering work station (EWS) & Disturbance Recorder (DR)	1	No.	904.82	904.82
37	j) 67" Large video screen (LVS)	1	No.	5,666.30	5,666.30
38	k) LVS Display controller	1	No.	448.86	448.86
39	l) Server cum LVS OWS(Main and Standby)	2	No.	904.82	1,809.64
40	m) Dot matrix printer (DMP)	1	No.	452.41	452.41
41	n) Laser color Printer	1	No.	452.41	452.41
42	o) UPS	1	No.	4,524.11	4,524.11
43	p) Time Synchronizing equipment (GPS) – complete in all respects including antenna, all cables, processing equipment etc.	1	No.	2,714.47	2,714.47
44	q) Handling & installation of furniture required in switchyard control room & Power house control room for OWS, printer, chairs etc.	1	Lot	2,714.47	2,714.47
45	415V main ACDB (PMCC) board	1	Set	76,195.46	76,195.46
46	Installation of 415V, non –segregated phase bus duct for connection between 1000kVA dry type transformer to 415V main PMCC board along with all applicable accessories as per specification requirements .Item includes required duct length alongwith accessories and associated support system.	5	Meter	3,879.41	19,397.05
47	220V DC Distribution board - (1 & 2)	1	Set	57,146.59	57,146.59
48	415V main lighting distribution board cum dry type lighting transformer	1	Set	84,227.54	84,227.54
49	220V Battery Bank including all accessories	2	Nos.	96,048.95	1,92,097.90
50	415V emergency lighting distribution board cum dry type lighting transformer	1	Set	39,897.25	39,897.25
51	220V Battery Charger for Battery Bank	2	Nos.	67,861.58	1,35,723.16
52	415V EPDB with 2 incomers from emergency switch board	1	Set	45,717.28	45,717.28

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Customer:- WEST BENGAL POWER DEVELOPMENT CORPORATION LTD.					
Tender Specification No. : TBSM/ SAGARDIGHI-UNIT-5/ETC/TENDER/21-22 Date: 03.01.2022					
Sl. No.	Description of Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
53	Earthing work with 75X10 GI Flat - Installation of Flat includes earthing of all switchyard equipment, towers, lattice/pipe structure, cable trenches, fence, pipe electrode for LA, CVT, neutral of transformer & at interconnections of other grids, 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, Auxiliary Earthmats under Iso/ ES/ CB MOM boxes shall be carried out as per TB-DG-445-316-E012.	12	MT	32,210.95	3,86,531.40
54	Earthing work with 50X6 GI Flat - Installation of Flat includes earthing of all switchyard equipment, towers, lattice/pipe structure, cable trenches, fence, pipe electrode for LA, CVT, neutral of transformer & at interconnections of other grids, 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, Auxiliary Earthmats under Iso/ ES/ CB MOM boxes shall be carried out as per TB-DG-445-316-E012.	5.5	MT	67,918.18	3,73,549.99
55	Earthing work with 40mm Dia. Galvanised MS Rod - Installation of Rod includes earthing of all switchyard equipment, towers, lattice/pipe structure, cable trenches, fence, pipe electrode for LA, CVT, neutral of transformer & at interconnections of other grids, Control room equipments using necessary Connectors for earthing flats. Earthing clamping shall be carried out by ETC contractor. (40mm Dia. Galvanised MS Rod will be supplied by BHEL) GI 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, Auxiliary Earthmats under Iso/ ES/ CB MOM boxes shall be carried out as per Drawing no TB-DG-445-316-E012.	1	MT	12,192.91	12,192.91
56	Laying of 100 to 750 mm wide, 2.5 M long, 2mm thick (minimum) G.S. steel Ladder type cable trays including bends, tees, elbow, reducers, stiffeners coupler plates, bolting to racks, structure etc. to complete.	3875	Meter	47.05	1,82,318.75
57	Laying of 100 to 150 mm wide, 2.5 M long, 2mm thick (minimum) G.S. steel Perforated type cable trays with cover, coupler plates, hardware, fixing and clamping arrangement with lattice / pipe type support equipment's structure etc to complete including cutting & jointing to suitable length. Fixing and clamping hardware required for fixing of perforated tray with lattice / pipe structure shall be in ETC contractor scope.	50	Meter	19.60	980.00

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Customer:- WEST BENGAL POWER DEVELOPMENT CORPORATION LTD.					
Tender Specification No. : TBSM/ SAGARDIGHI-UNIT-5/ETC/TENDER/21-22 Date: 03.01.2022					
Sl. No.	Description of Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
58	Installation of Cable Rack Assembly - work includes welding of galvanised steel racks on inserts of trench walls in trenches in switchyard and control room. Cable rack assembly will be of 2/3/4 tier.	1150	Nos.	209.98	2,41,477.00
59	Under-hung & Wall mounted Cable Rack work includes welding of assembly on embedded plates/ inserts in ceiling/ walls in cable vault. Cable rack assembly will be of 2/3/4 tier.	0.5	MT	34,623.26	17,311.63
60	Supply and installation of Panel Supporting Angles / Channel etc on cable trench in CRB / SPR, Vertical support for cables etc (Including Supply). Supports shall be painted after installation with two coats of metal primer (comprising of red oxide and zinc chromate in a synthetic medium) followed by two finishing coats of aluminum paint. (supply of paint is in scope of bidder)	0.25	MT	1,35,723.17	33,930.79
61	Supply of 110 mm nominal outside dia. PVC PIPES CLASS-IV as per IS 4985	500	Meter	158.33	79,165.00
62	Supply of 50 mm nominal outside dia. PVC PIPES CLASS-IV as per IS 4985	250	Meter	65.75	16,437.50
63	Supply of 90° PVC long bend for 110 mm dia PVC Pipes class-IV pipes, conforming to IS 10124, IS 10124 (Part 9) & IS 10124 (Part 10).	50	Nos.	183.43	9,171.50
64	Supply of 90° PVC long bend for 50 mm dia PVC Pipes class-IV pipes, conforming to IS 10124, IS 10124 (Part 9) & IS 10124 (Part 10).	50	Nos.	82.06	4,103.00
65	Supply of PVC sockets for 110 mm dia PVC Pipes class-IV pipes, conforming to IS 7834 (Part-6)-1977.	50	Nos.	337.90	16,895.00
66	Supply of PVC sockets for 50 mm dia PVC Pipes class-IV pipes, conforming to IS 7834 (Part-6)-1977	50	Nos.	318.59	15,929.50
67	Supply of PVC tee bend for 110 mm dia PVC Pipes class-IV pipes, conforming to IS 10124, IS 10124 (Part 9) & IS 10124 (Part 10).	50	Nos.	473.06	23,653.00
68	Supply of PVC tee bend for 50 mm dia PVC Pipes class-IV pipes, conforming to IS 10124, IS 10124 (Part 9) & IS 10124 (Part 10).	50	Nos.	241.36	12,068.00
69	INSTALLATION OF 110 mm dia PVC Pipe. Which shall be buried in the ground at a depth of 300 mm below FGL. Work includes excavation, backfilling, making trench holes and repairing of cable trench walls, cutting, threading, fixing of sockets/ bends where required etc. complete. Both ends of PVC conduits shall be closed by plastering. (Payment will be made for the as erected pipe length)	500	Meter	116.22	58,110.00
70	INSTALLATION OF 50 mm dia PVC Pipe. Which shall be buried in the ground at a depth of 300 mm below FGL. Work includes excavation, backfilling, making trench holes and repairing of cable trench walls, cutting, threading, fixing of sockets/ bends where required etc. complete. Both ends of PVC conduits shall be closed by plastering. (Payment will be made for the as erected pipe length)	250	Meter	97.28	24,320.00
71	Installation of 50/63 dia GI Pipes on Lattice/ Pipe Structure and inside cable trenches for FO cables 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) - (50/63 dia GI pipe will be supplied by BHEL)	1700	Meter	97.28	1,65,376.00

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Customer:- WEST BENGAL POWER DEVELOPMENT CORPORATION LTD.

Tender Specification No. : TBSM/ SAGARDIGHI-UNIT-5/ETC/TENDER/21-22 Date: 03.01.2022

Sl. No.	Description of Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
72	Supply of 25/32 MM DIA. HDPE PIPE - High Density PE pipe including tee / elbow as per relevant IS code. Mode of measurement shall be running length of HDPE Pipe only. Tee & Bend as per requirements are deemed included.	500	Meter	116.21	58,105.00
73	Supply of 25 NB GI pipes (light grade) conduits along with socket, bend and joint on trench rack support etc complete. Supply of required clamp for fixing GI conduits on Cable rack shall be in ETC contractor scope. Mode of measurement shall be running length of pipe conduit.	30	Meter	153.94	4,618.20
74	INSTALLATION OF 25/32 MM DIA. HDPE PIPE in Trenches, hangers, supports, structure, through wall etc including cutting, threading, fixing of sockets/ bends/TEEs where required etc. complete. Both ends of conduits shall be closed by plastering. (Payment will be made for the as erected pipe length)	500	Meter	110.49	55,245.00
75	INSTALLATION OF 25 NB GI pipes (light grade) conduits along with socket, bend and joint on trench rack support . Cutting, threading, fixing of clamps sockets/ bends/joints where required etc. complete. Mode of measurement shall be running length of pipe conduit. GI conduits shall be used for INSTALLATION OF fiber optic cables /sensor cables.	30	Meter	38.48	1,154.40
76	INSTALLATION of FIBER OPTIC CABLE in GI Pipe / HDPE Pipe along with connectors for SAS & Busbar Protection / VMS. Splicing and Termination shall be in supplier's scope.). Installation of GI / HDPE Pipe is covered in separate BOQ line item.	1700	Meter	15.00	25,500.00
77	INSTALLATION of CO-AXIAL CABLE, CAT 6 CABLE, SHIELDED TWISTED PAIR - STP, UTP CABLE, SPECIAL purpose CABLES IN GI Pipe / HDPE Pipe along with connectors / TERMINATION. Installation of GI / HDPE Pipe is covered in separate BOQ line item.	50	Meter	15.00	750.00
78	ETC of LT control cable - 5C X 4 sq.mm PVC/Cu	14000	Meter	15.20	2,12,800.00
79	ETC of LT control cable - 5C X 2.5 sq.mm PVC/Cu	5000	Meter	16.35	81,750.00
80	ETC of LT control cable - 7C X 2.5 sq.mm PVC/Cu	1000	Meter	17.51	17,510.00
81	ETC of LT control cable - 9C X 2.5 sq.mm PVC/Cu	18000	Meter	17.51	3,15,180.00
82	ETC of LT control cable - 12C X 2.5 sq.mm PVC/Cu	8500	Meter	23.35	1,98,475.00
83	ETC of LT Power / control cable - 2C X 2.5 PVC/Cu	2500	Meter	16.35	40,875.00
84	ETC of LT XLPE Power cable - 2C X 25 sq.mm Cu	8500	Meter	19.60	1,66,600.00
85	ETC of LT XLPE Power cable - 2C X 16 sq.mm Cu	3500	Meter	16.80	58,800.00
86	ETC of LT XLPE Power cable - 4C X 70 sq.mm Al	7500	Meter	33.85	2,53,875.00
87	ETC of LT XLPE Power cable - 3.5C X 300 sq.mm Al	4500	Meter	76.29	3,43,305.00
88	ETC of LT XLPE Power cable - 3.5C X 185 sq.mm Al	500	Meter	55.08	27,540.00
89	ETC of LT XLPE Power cable - 4C X 35 sq.mm Al	4000	Meter	23.35	93,400.00
90	ETC of LT XLPE Power cable - 4C X 16 sq.mm Al	6000	Meter	19.60	1,17,600.00
91	ETC of LT XLPE Power cable - 2C X 16 sq.mm Al	2000	Meter	16.80	33,600.00
92	ETC of Fire Survival cable - 1C X 150 sq.mm EPR/Cu	3000	Meter	58.81	1,76,430.00
93	ETC of Fire Survival cable - 1C X 300 sq.mm EPR/Cu	3500	Meter	60.00	2,10,000.00
94	ETC of Fire Survival cable - 2C X 25 sq.mm EPR/Cu	2000	Meter	19.60	39,200.00
95	Supply of CABLE GLAND suitable for 2C X 2.5 PVC/Cu Power / CONTROL Cable	100	Nos.	216.64	21,664.00
96	Supply of CABLE GLAND suitable for 5C X 4 PVC/Cu Control Cable	300	Nos.	217.07	65,121.00
97	Supply of CABLE GLAND suitable for 5C X 2.5 PVC/Cu Control Cable	150	Nos.	216.64	32,496.00

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Customer:- WEST BENGAL POWER DEVELOPMENT CORPORATION LTD.

Tender Specification No. : TBSM/ SAGARDIGHI-UNIT-5/ETC/TENDER/21-22 Date: 03.01.2022

Sl. No.	Description of Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
98	Supply of CABLE GLAND suitable for 7C X 2.5 PVC/ Cu Control Cable	70	Nos.	259.98	18,198.60
99	Supply of CABLE GLAND suitable for 9C X 2.5 Cu PVC/ Control Cable	400	Nos.	292.47	1,16,988.00
100	Supply of CABLE GLAND suitable for 12C X 2.5 Cu PVC/ Control Cable	200	Nos.	324.97	64,994.00
101	Supply of CABLE GLAND suitable for 2C X 25 sq.mm Cu XLPE Power Cable	150	Nos.	400.00	60,000.00
102	Supply of CABLE GLAND suitable for 2C X 16 sq.mm Cu XLPE Power Cable	100	Nos.	299.62	29,962.00
103	Supply of CABLE GLAND suitable for 4C X 70 XLPE Al Power Cable	150	Nos.	433.28	64,992.00
104	Supply of CABLE GLAND suitable for 3.5C X 300 XLPE Al Power Cable	100	Nos.	3,358.01	3,35,801.00
105	Supply of CABLE GLAND suitable for 3.5C X 185 XLPE Al Power Cable	20	Nos.	541.61	10,832.20
106	Supply of CABLE GLAND suitable for 4C X 35 XLPE Al Power Cable	150	Nos.	379.13	56,869.50
107	Supply of CABLE GLAND suitable for 4C X 16 XLPE Al Power Cable	160	Nos.	324.97	51,995.20
108	Supply of CABLE GLAND suitable for 2C X 16 XLPE Al Power Cable	150	Nos.	297.89	44,683.50
109	Supply of CABLE GLAND suitable for 1C X 150 EPR/Cu Fire Survival Cable	150	Nos.	836.70	1,25,505.00
110	Supply of CABLE GLAND suitable for 1C X 300 EPR/Cu Fire Survival Cable	150	Nos.	950.00	1,42,500.00
111	Supply of CABLE GLAND suitable for 2C X 25 EPR/Cu Fire Survival Cable	100	Nos.	500.00	50,000.00
112	Supply of Rubber mats (Class-A suitable for 1.1 kV as per IS: 15652)	100	Sq.m	1,194.93	1,19,493.00
113	Installation of Rubber mats (Class-A suitable for 1.1 kV as per IS: 15652) in front of Panels	100	Sq.m	132.77	13,277.00
114	Supply & Installation of Panel Supporting Angles / Channel etc on cable trench in Control Room & Bay Control Room, Vertical support for cables etc.	1	MT	1,35,723.17	1,35,723.17
115	Supply & Installation 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	1	MT	1,35,723.17	1,35,723.17
116	Supply & Mounting of Phase Color Discs, Danger Plate and Identification Plates for bays & Equipments as per IS:2551; 1982 & IS:5; 1978.	1	Lot	1,65,381.14	1,65,381.14
117	PHASE IDENTIFICATION - Painting the structures in Red, Yellow and Blue by reflecting Colour is to be provided around the top of the structure with Colour band of 100 mm width.	1	Lot	1,930.85	1,930.85
118	Supply & Installation of BAY IDENTIFICATION - Bay Name Plate as per drawing no. C/ENG/STD/BAY NAME PLATE	3	Nos.	937.77	2,813.31
119	Supply & Installation of Cable Tag - The tag shall be of aluminum with the number punched on it and securely attached to the cable conduit by not less than two turns of 20 SWG GI wire conforming to IS:280. Cable tags shall be of rectangular shape for power cables and of circular shape for control cables.	1	Lot	1,930.85	1,930.85
120	Installation of Fire-Proof Sealing System (as per specification enclosed at Annexure-B). The work includes supply of the material.	20	SQ.M	743.07	14,861.40

BILL OF QUANTITIES CUM PRICE SCHEDULE (Annexure-I)					
Name of the 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 Switchyard at Sagardighi Unit-5 Project in West Bengal					
Customer:- WEST BENGAL POWER DEVELOPMENT CORPORATION LTD.					
Tender Specification No. : TBSM/ SAGARDIGHI-UNIT-5/ETC/TENDER/21-22 Date: 03.01.2022					
Sl. No.	Description of Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
121	Installation of Fire Protection Coating System (as per specification enclosed at Annexure-B). The work includes supply of the material.	20	SQ.M	743.07	14,861.40
122	MATERIAL HANDLING OF FIRE PROTECTION SYSTEM - RECEIPT OF MATERIAL, UNLOADING, PROPER STORAGE, MATERIAL RECONCILIATION, SAFE KEEPING, HANDING OVER TO BHEL / FIRE FIGHTING CONTRACTOR, PROPER RECORD KEEPING ETC TO COMPLETE. PLEASE REFER ANNEXURE_FIRE-PROTECTION. MODE OF PAYMENT SHALL BE EQUIPMENT / ITEM WEIGHT EXCLUDING PACKING WEIGHTAs per Annexure-2 .	1	Lot	4,316.17	4,316.17
123	MATERIAL HANDLING OF AIR CONDITIONING AND VENTILATION SYSTEM - RECEIPT OF MATERIAL, UNLOADING, PROPER STORAGE, MATERIAL RECONCILIATION, SAFE KEEPING, HANDING OVER TO BHEL / FIRE FIGHTING CONTRACTOR, PROPER RECORD KEEPING ETC TO COMPLETE. PLEASE REFER ANNEXURE_FIRE-PROTECTION. MODE OF PAYMENT SHALL BE EQUIPMENT / ITEM WEIGHT EXCLUDING PACKING WEIGHT As per Annexure-3 .	1	Lot	432.03	432.03
124	Unloading, storage & handing over of Essential/ Mandatory spares/ Maintenance equipments to Customer as per Annexure-A .	1	Lot	1,11,118.38	1,11,118.38
125	Supply & ETC of Customer approved make 2 HP Automatic Start/ Stop type Centrifugal pump and accessories	2	Nos.	11,913.47	23,826.94
126	Supply & ETC of Customer approved make 1 HP Automatic Start/ Stop type Centrifugal pump and accessories	2	Nos.	12,849.36	25,698.72
127	Watch and ward of stored / erected material at project site and storage area or any other locations as per instruction of site in charge (round the clock security by authorised service agency consisting of armed guard)	12	Months	63,220.81	7,58,649.72
Total Amount (in Rs. Excluding GST)					121,12,991.07

Annexure-II						
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 SWITCHYARD AT SAGARDIGHI UNIT-5 PROJECT IN WEST BENGAL.						
TENDER SPECIFICATION NO.:- TBSM/ SAGARDIGHI-UNIT-5/ETC/TENDER/21-22 DATE 03.01.2022						
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)						
SI 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 Switchyard at Sagardighi Unit-5 Project in West Bengal. "- Excluding GST	1.00	Nos	121,12,991.07	121,12,991.07	Rupees One Crore Twenty One Lakh Twelve Thousand Nine Hundred Ninety One and Paisa Zero Seven Only.
Total in Figures					121,12,991.07	Rupees One Crore Twenty One Lakh Twelve Thousand Nine Hundred Ninety One and Paisa Zero Seven Only.
Quoted Rate in Figures			Select	% (Percentage) Excess/Less/ at par		
Quoted Rate (Rs.) in Words after considering % (percentage) Excess/Less/at par						