

Annexure-I

BILL OF QUANTITY CUM PRICE SCHEDULE

Name of Project:- 765 KV WARDHA S/S IN MAHARASHTRA”.

Name of Work:-Erection, Testing, commissioning and handing over of switchyard at extension of 765 KV WARDHA S/S IN MAHARASHTRA”

SR_NO	Description_of_Item	Quantity	UOM	Unit_Rate (Rs.)	AMOUNT (Rs.)
1	765kV, 3150A, 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).	1	Nos.	110700.00	110700.00
2	CSD (Control switching device) for 765kV 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 Relay Panel & minor modification / panel wiring in circuit breaker and relay panel.	2	Nos.	13400.00	26800.00
3	765kV, 3150A, 3-Phase, Knee Type Isolator with one earth switch (motor operated) electrically ganged complete with 6 nos. of support insulators, 3 nos operating rod insulators & terminal connectors without support structure.	1	Nos.	30887.77	30887.77
4	765kV, 3150A, 1-Phase, Knee Type Isolator with one earth switch (motor operated) electrically ganged complete with 2 nos. of support insulators, 1 nos operating rod insulator & terminal connectors without support structure.	6	Nos.	13067.29	78403.77
5	765kV, 3150A, 1-Phase, Knee Type Isolator without earth switch (motor operated) electrically ganged complete with 2 nos. of support insulators, 01 Nos. operating rod insulator & terminal connectors without support structure.	3	Nos.	13067.29	39201.88
6	765kV, 1 Ph, Current Transformer complete with terminal connectors without support structure.	3	Nos.	20591.86	61775.57
7	DGA Test for 765kV 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 Powergrid Itarsi laboratory, getting it tested and submission of test report to BHEL. Powergrid laboratory charges shall in the scope of bidder.	3	Nos.	2116.80	6350.40

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8	624kV, 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.	3	Nos.	4887.31	14661.93
9	765kV, 1 Ph, BPI (Solid core Bus Post insulator) with corona ring complete with terminal connectors without support structure.	15	Nos.	4784.13	71761.99
10	145kV, 1 Ph, BPI (Solid core Bus Post insulator) complete with terminal connector without support structure.	14	Nos.	1008.00	14112.00
11	33kV, 1 Ph, Current Transformer, complete with terminal connector without support structure.	1	Nos.	1032.79	1032.79
12	GI Lattice Structures including hardware for Towers, beams, LM & equipments support	112	MT	3782.61	423652.45
13	GI Pipe Structures including hardware for equipments support	0.5	MT	3194.21	1597.10
14	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	89.00	13350.00
15	765kV Double Tension Stringing Hardware - with/ without Turn Buckle, with 2 numbers Polymer Long Rod Insulator, suitable for quad Bull conductor.	6	Set	4306.26	25837.54
16	765kV V-Suspension Stringing Hardware - with through / drop type clamp, 2 numbers Polymer Long Rod Insulator, suitable for quad Bull conductor.	3	Set	2870.48	8611.43
17	765kV Guy Wire Arrangement - with Double 210kN Long Rod Polymer Insulator and string hardware with Turn Buckle set suitable for quad Bull conductor (450mm spacing) & shield wire at bottom. Including accessories complete in all respect.	6	Set	1863.02	11178.10
18	AAC Bull Conductor complete with Tee connectors for droppers to equipment connections, PG clamps for Busbar jumpering, Twin/Quad bundle rigid/flexible spacers etc to complete	3.5	kM	82106.75	287373.64

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SR_NO	Description_of_Item	Quantity	UOM	Unit_Rate (Rs.)	AMOUNT (Rs.)
19	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)	300	Meter	304.96	91488.84
20	3" 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)	190	Meter	278.58	52929.53
21	SUPPLY: Supply of Galvanized Steel Earth Wire - 7/9 SWG Stranded Shield Wire as per clause 4.0 of "Section : SE". ETC is covered under a separate BOQ line item)	600	Meter	63.50	38100.00
22	Installation of 7/9 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.	400	Meter	26.06	10423.20
23	765kV Terminal Connector. - Dismantling of terminal connectors from customer supplied/erected items whereas erection of equipments are not in scope of contractor.	9	Nos.	434.49	3910.38
24	765kV 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.	9	Nos.	724.14	6517.30
25	145kV 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.	1	Nos.	206.27	206.27
26	BMK - Bay Marshalling Kiosks (Outdoor type, Floor / Trench mounted)	1	Nos.	3613.86	3613.86
27	CTJB - Junction Box (on CT structure)	1	Nos.	2131.20	2131.20
28	765kV Circuit Breaker Relay Panel (With SAS / Automation)	1	Nos.	8839.45	8839.45
29	765kV Reactor Protection Panel (With Automation)	2	Nos.	8839.45	17678.89
30	Augmentation of existing 765KV Bus Bar protection scheme (with Automation)	1	Set	11900.00	11900.00
31	Augmentation of Substation Automation system for 765kV Main Bay	1	Set	11900.00	11900.00
32	Supply and installation: Extension/Modification in existing 415V ACDB / MLDB Panel with 63A, 4 Pole MCCB (FB MCCB with thermal magnetic release for O/L (80-100%) & Fixed S/C with rotary handle and 4 number 63A rating terminal block, mounting channel, internal wiring, door cutting etc complete. MCCB & TB are to be Powergrid approved make.	1	Set	10580.00	10580.00

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SR_NO	Description_of_Item	Quantity	UOM	Unit_Rate (Rs.)	AMOUNT (Rs.)
33	Supply and installation: Extension/Modification in existing 220V DCDB Panels with 32A, DP, MCCB with thermal magnetic release SE for O/L (80-100%) & fixed S/C and 2 number 32A terminal block, mounting channel, internal wiring etc complete. MCCB & TB are to be Powergrid approved make.	1	Set	10580.00	10580.00
34	Lighting Panel ACP-2 (Outdoor type, Foundation Mounted) including installation of mounting hardwares / anchor fastener / foundation bolt etc complete in all respect.	1	Nos.	4032.00	4032.00
35	Sub Lighting panel SLP (Outdoor type, Foundation / structure Mounted) including installation of structure, mounting hardwares / anchor fastener etc complete in all respect.	2	Nos.	1008.00	2016.00
36	Outdoor Junction Box for loop in loop out of Lighting Cables (Outdoor type, Foundation / structure Mounted) including installation of support structure, mounting hardwares / anchor fastener etc complete in all respect.	2	Nos.	1512.00	3024.00
37	LED Flood Light Luminaries Type FL-1 (150W) including installation of mounting hardwares, brackets, fastener, screw, nut bolt etc complete.	3	Nos.	1209.60	3628.80
38	LED Flood Light Luminaries Type FL-2 (250W) including installation of mounting hardwares, brackets, fastener, screw, nut bolt etc complete.	3	Nos.	1209.60	3628.80
39	Receptacle 415V, 63A, 3 Phase outdoor type. (Outdoor type, Foundation / structure Mounted) including installation of structure, mounting hardwares / anchor fastener etc complete in all respect.	1	Nos.	4032.00	4032.00
40	Receptacle 415V, 250A, 3 Phase outdoor type. (Outdoor type, Foundation / structure Mounted) including installation of structure, mounting hardwares / anchor fastener etc complete in all respect.	1	Nos.	4032.00	4032.00
41	PTZ CAMERA (DOME TYPE) WITH IT'S HOUSING, POWER SUPPLY UNIT & MOUNTING HARDWARE	1	Set	400.00	400.00
42	JUNCTION BOX INCLUDING MOUNTING OF 600VA UPS, MEDIA CONVERTER, LIU & POWER SWITCH ETC FOR PTZ CAMERA	1	Set	400.00	400.00
43	CABLING BETWEEN PTZ CAMERA AND JUNCTION BOX. (SET OF CAT-6 CABLE, FLEXIBLE 25MM GI CONDUIT, POWER CABLE 3CX2.5 SQ.MM & MOUNTING HARDWARES)	20	Meter	20.16	403.20

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SR_NO	Description_of_Item	Quantity	UOM	Unit_Rate (Rs.)	AMOUNT (Rs.)
44	Earthing work with 75X12 GI Flat - Installation of GI Flat including cutting, bending, welding with GI Flat / MS Rod, supply and application of paint, clamping to structure/building wall etc. to complete in all respect. All arc welding shall be done with low hydrogen content electrodes. the welds should be treated 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. The red oxide and zinc chromate shall conform to IS:2074.	8	MT	9373.34	74986.71
45	Earthing work with 50X6 GI Flat / MS Flat - Installation of Flat including cutting, bending, welding with Flat / MS Rod, supply and application of paint, clamping to structure/building wall etc. to complete in all respect. All arc welding shall be done with low hydrogen content electrodes. the welds should be treated 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. The red oxide and zinc chromate shall conform to IS:2074.	2	MT	9373.34	18746.68
46	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 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	48.64	2432.16
47	Supply of 50x50x6 mm MS Angle - Powergrid approved make	1	MT	36695.00	36695.00
48	Supply of 50x6 mm MS Flat - Powergrid approved make	0.5	MT	50200.00	25100.00
49	Installation of Cable Rack - work includes <u>cutting, welding</u> and fabrication of cable racks with MS angles & MS Flat (for continues earthing run) on inserts of cable trench walls. Cable rack assembly shall be of 1/2/3/4 tier as applicable. Cable racks and 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)	1.5	MT	23887.80	35831.69

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SR_NO	Description_of_Item	Quantity	UOM	Unit_Rate (Rs.)	AMOUNT (Rs.)
50	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)	0.2	MT	60652.32	12130.46
51	Supply of 110 mm nominal outside dia. PVC PIPES CLASS-IV as per IS 4985	120	Meter	164.00	19680.00
52	Supply of 50 mm nominal outside dia. PVC PIPES CLASS-IV as per IS 4985	75	Meter	68.10	5107.50
53	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).	10	Nos.	190.00	1900.00
54	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).	10	Nos.	85.00	850.00
55	Supply of PVC sockets for 110 mm dia PVC Pipes class-IV pipes, conforming to IS 7834 (Part-6)-1977.	25	Nos.	350.00	8750.00
56	Supply of PVC sockets for 50 mm dia PVC Pipes class-IV pipes, conforming to IS 7834 (Part-6)-1977	15	Nos.	330.00	4950.00
57	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).	10	Nos.	490.00	4900.00
58	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).	10	Nos.	250.00	2500.00
59	Supply of 32 mm (Nominal Dia) HDPE - 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.	200	Meter	114.45	22890.00
60	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.	50	Meter	159.45	7972.61

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SR_NO	Description_of_Item	Quantity	UOM	Unit_Rate (Rs.)	AMOUNT (Rs.)
61	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, 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)	1260	Meter	93.28	117536.08
62	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, 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)	750	Meter	78.08	58558.43
63	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.	50	Meter	39.86	1993.15
64	INSTALLATION OF 25/32 MM DIA. HDPE PIPE in cable trench, trays, hanger, supports, STRUCTURE, through wall etc	1000	Meter	114.45	114450.00
65	INSTALLATION OF 25/32 MM DIA. HDPE PIPE 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, fixing of sockets/ bends where required etc. complete. (Payment will be made for the as erected pipe length)	50	Meter	114.45	5722.50
66	INSTALLATION of FIBER OPTIC CABLE (6 CORE) 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.	1000	Meter	15.54	15536.50
67	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.	200	Meter	15.54	3107.30
68	ETC of LT control cable - 5C X 2.5 Cu	3600	Meter	11.77	42370.56
69	ETC of LT control cable - 7C X 2.5 Cu	1800	Meter	12.60	22688.64
70	ETC of LT control cable - 10C X 2.5 Cu	960	Meter	12.60	12100.61
71	ETC of LT control cable - 14C X 2.5 Cu	4440	Meter	16.81	74634.62
72	ETC of LT control cable - 19C X 2.5 Cu	600	Meter	19.45	11667.08
73	ETC of LT control cable - 27C X 2.5 Cu	3240	Meter	29.71	96263.31
74	ETC of LT Power / control cable - 2C X 2.5 Cu or 3C X 2.5 Cu	480	Meter	11.77	5649.41
75	ETC of LT XLPE Power cable - 3.5C X 300 Al	576	Meter	57.77	33273.98
76	ETC of LT Power cable in directly Buried Cable trench (including sand bed & brick cover) - 3.5C X 300 Al	144	Meter	54.93	7910.09

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SR_NO	Description_of_Item	Quantity	UOM	Unit_Rate (Rs.)	AMOUNT (Rs.)
77	ETC of LT Power cable - 3.5C X 70 Al	2880	Meter	24.37	70198.27
78	ETC of LT Power cable - 3.5C X 35 Al	840	Meter	16.81	14120.06
79	ETC of LT Power cable - 4C X 16 Al	4080	Meter	12.98	52955.14
80	ETC of LT Power cable - 4C X 6 Al	1440	Meter	12.98	18690.05
81	ETC of LT Power cable - 2C X 6 Al	480	Meter	12.98	6230.02
82	SUPPLY OF CABLE GLAND SUITABLE FOR 2C X 2.5 or 3C X 2.5 PVC/Cu Power / CONTROL Cable	36	Nos.	168.12	6052.15
83	SUPPLY OF CABLE GLAND SUITABLE FOR 5C X 2.5 PVC/Cu Control Cable	72	Nos.	168.12	12104.29
84	SUPPLY OF CABLE GLAND SUITABLE FOR 7C X 2.5 PVC/Cu Control Cable	22	Nos.	201.74	4438.37
85	SUPPLY OF CABLE GLAND SUITABLE FOR 10C X 2.5 PVC/ Cu Control Cable	30	Nos.	201.74	6052.32
86	SUPPLY OF CABLE GLAND SUITABLE FOR 14C X 2.5 Cu PVC/ Control Cable	96	Nos.	252.17	24208.59
87	SUPPLY OF CABLE GLAND SUITABLE FOR 19C X 2.5 Cu PVC/ Control Cable	36	Nos.	287.28	10342.14
88	SUPPLY OF CABLE GLAND SUITABLE FOR 27C X 2.5 Cu Control Cable	36	Nos.	591.21	21283.38
89	SUPPLY OF CABLE GLAND SUITABLE FOR 3.5C X 300 Al C XLPE Power Cable	8	Nos.	604.80	4838.40
90	SUPPLY OF CABLE GLAND SUITABLE FOR 3.5C X 70 Al Power Cable	18	Nos.	336.22	6051.97
91	SUPPLY OF CABLE GLAND SUITABLE FOR 3.5C X 35 Al Power Cable	10	Nos.	294.20	2942.02
92	SUPPLY OF CABLE GLAND SUITABLE FOR 4C X 16 Al Power Cable	48	Nos.	252.17	12104.29
93	SUPPLY OF CABLE GLAND SUITABLE FOR 4C X 6 Al Power Cable	54	Nos.	252.17	13617.33
94	SUPPLY OF CABLE GLAND SUITABLE FOR 2C X 6 Al Power Cable	24	Nos.	185.33	4447.87
95	Supply of Rubber mats (Class-A suitable for 1.1 kV as per IS: 15652)	5	Sq.m	1237.73	6188.66

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96	Installation of Rubber mats (Class-A suitable for 1.1 kV as per IS: 15652) in front of Panels	5	Sq.m	137.53	687.63
97	Supply & Mounting of Phase Color Discs, Danger Plate and Identification Plates for bays & Equipments as per IS:2551; 1982 & IS:5; 1978.	1	Lot	88147.50	88147.50
98	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	2000.00	2000.00
99	Supply & Installation of BAY IDENTIFICATION - Bay Name Plate as per drawing no. C/ENG/STD/BAY NAME PLATE	1	Nos.	971.36	971.36
100	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	2000.00	2000.00
101	Supply of Cable Sealing System / cable transit system - Modular multi-diameter (type peel-able or adjustable blocks) cable sealing system consisting of frames, blocks, stay plate and accessories. The shall be installed where the cables enter CRB, SPR in the substations. (Approved make M/s Roxtec India Pvt. Ltd / M/s MCT Brattberg India Pvt. Ltd. / any other Powergrid approved make) Mode of measurement shall be in square centimeter of inner dimension of frame of cable sealing system. Bidder to submit drawing, document & type test report for approval during contract stage.	994	sq. cm	11.80	11729.20
102	Installation of Cable Sealing System - Modular multi-diameter (type peel-able or adjustable blocks) cable sealing system consisting of frames, blocks, stay plate and accessories. The shall be installed where the cables enter CRB, SPR in the substations. Mode of measurement shall be in square centimeter of inner dimension of frame of cable sealing system. <u>Minor civil works required for installation of cable sealing system is in the scope of bidder.</u>	994	sq. cm	1.18	1172.92
103	Repair/Modification work in Control room for fixing of panels under present scope including covering of gap and floor finishing to meet the aesthetic.	1	Lot	32390.45	32390.45
104	Dismantling and re-erection of 145kV BPI including terminal connector, associated 3 inch aluminum tube etc. Excluding support structure.	1	Nos.	1512.00	1512.00
105	Dismantling of guy wire arrangement for existing 3-phase isolator.	3	set	558.90	1676.71
106	Dismantling of existing lattice / pipe structure and its disposal as per site requirement.	1	MT	726.75	726.75

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107	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 WEIGHT.	14.4	MT	500.00	7200.00
108	MANDATORY SPARES - A: 765kV SF6 Circuit Breaker Spare material handling	1	Lot	10580.00	10580.00
109	MANDATORY SPARES - B.1: 765 KV, 3150A, Isolator with one E/S Spare material handling	1	Lot	6612.50	6612.50
110	MANDATORY SPARES - B.2: 765 KV, 2000A, Isolator with one E/S Spare material handling	1	Lot	6612.50	6612.50
111	MANDATORY SPARES - C: 765kV Current Transformer Spare material handling	1	Lot	9257.50	9257.50
112	MANDATORY SPARES - D: 624kV Surge Arrester Spare material handling	1	Lot	3967.50	3967.50
113	MANDATORY SPARES - L.2: Relay and Protection system - Reactor Protection panel Spare material handling	1	Lot	6612.50	6612.50
114	MANDATORY SPARES - M: Sub-Station Automation /SCADA system Spare material handling	1	Lot	2645.00	2645.00
115	MANDATORY SPARES - N: Fire Protection System Spare material handling	1	Lot	2645.00	2645.00
116	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 authorized service agency)	10	Months	44782.65	447826.46
Total Amount in Rs. (Excluding GST)					33,86,407.96

Note:- Following Annexures are the Part of this BOQ , Bidders may Please refer the mentioned Annexures which are attached alongwith the tender Documenst.

- 1) BOQ_ANNEXURE_1 :- Standard Technical notes and Scope
- 2) BOQ_ANNEXURE_2 :- Project Specific Drwaings and Documents
- 3) BOQ_ANNEXURE_3:- Standard Drawings & Documents List

ANNEXURE-II

**TRANSMISSION BUSINESS GROUP
(SUB- CONTRACTS MANAGEMENT)
TBG - NOIDA**

PRICE SCHEDULE FORMAT

SUB: TENDER FOR "RECEIPT OF EQUIPMENT/ MATERIAL AT SITE, UNLOADING, RECONCILIATION, INSPECTION, VERIFICATION, STORAGE, UP-KEEPING DURING STORAGE, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF 765 KV WARDHA S/S IN MAHARASHTRA".

TENDER SPEC. NO.:- TBSM/WARDHA/ SS-19 /ETC/TENDER /20-21

DATE 28.04.2020

(a) I/ We hereby agree to execute the above work at ----- % (in figure).....
----- (in words) Above / Below/ At Par the rates of items given in BOQ
(Annexure-I) of subject tender.

NOTE:

1. In this annexure the tenderer shall quote a percentage above/ below/At Par the rates shown in the Bill of Quantities (Annexure-I) of subject tender. The percentage quoted shall be clearly written both in words and figures. In case of discrepancy in rates in figure and words, the minimum will be taken into account by BHEL.
2. The quoted percentage will apply to the individual items uniformly.

Date:
Place

Signature of tenderer
Name & Designation of authorized person(s) with seal

ANNEXURE-III
(Summary Of Prices)

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 765 kV WARDHA S/S in MAHARASHTRA.”.

TENDER SPECIFICATION NO.:-TBSM/WARDHA/ SS-19 /ETC/TENDER /20-21 DATE 28.04.2020

Sl No.	Description	Amount (Rs.)
1	Total Amount as per rates in BOQ for "Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of 765 kV Wardha S/s in Maharashtra.." (Annexure-I)	33,86,407.96
2	Value of percentage above/below/at par (As indicated in Price Schedule Format, Annexure-II) applicable to the total amount of ETC work (at Sl. no. 1 above)% above/below/ at par
3	Total amount after consideration of percentage above/below/ at par.	