

### BOQ 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 132 kV Switchyard for NTPC Rammam 3 X 40 MW HEP in Sikkim.

**Customer:-** M/s NTPC Limited.

**Tender ref no.:** TBSM/NTPC/RAMMAM/ETC/TENDER/20-21/01 , Date: 19.11.2020

Sl. No.	Description of Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
1	132kV, 3-Phase SF6 Circuit Breaker without PIR and without CSD alongwith lattice type GS supporting structure, terminal connectors, Breaker Control Cabinets, ladder and interpole cabling. (Supervision of Erection, Testing and commissioning will be done by supplier. Supplier will bring Timing kit and Gas leak detector only. Necessary manpower support, tools, tackles and testing kit to be in scope of ETC contractor).	10	Nos	20,023.20	2,00,232.00
2	132kV, 3-Phase, Horizontal Centre Break Isolator(motor/ manual operated) with Two earth switch (motor/ manual operated) complete with 6 nos. of support insulators & terminal connectors including rods and other accessories without support structure	11	Nos	16,120.00	1,77,320.00
3	132kV, 3-Phase, Horizontal Centre Break Isolator(motor/ manual operated) without earth switch Gantry mounted upright at 11500mm (motor/ manual operated) complete with 6 nos. of support insulators & terminal connectors without support structure	13	Nos	14,595.00	1,89,735.00
4	132kV, 3-Phase, Horizontal Centre Break Isolator(motor/ manual operated) with One earth switch Gantry mounted upright at 11500mm (motor/ manual operated) complete with 6 nos. of support insulators & terminal connectors without support structure	7	Nos	15,290.00	1,07,030.00
5	132kV, 3-Phase, Horizontal Double Break Isolator(motor/ manual operated) without earth switch Gantry mounted UnderHung at 11500mm (motor/ manual operated) complete with 6 nos. of support insulators & terminal connectors without support structure	4	Nos	14,522.50	58,090.00
6	132kV, 3-Phase, Horizontal Double Break Isolator(motor/ manual operated) with One earth switch Gantry mounted UnderHung at 11500mm (motor/ manual operated) complete with 6 nos. of support insulators & terminal connectors without support structure	4	Nos	15,447.50	61,790.00
7	132kV, 1 Ph, 1200A, Oil-filled Current Transformer, dead tank complete with terminal connectors without support structure	30	Nos	14,522.50	4,35,675.00
8	132kV, 1 Ph, Voltage Transformer (Capacitive) complete with terminal connectors without support structure	18	Nos	3,893.40	70,081.20
9	120kV, 1 Phase, Gapless type Metal Oxide Surge Arrester complete with surge counter, leakage current meter, insulating base, connecting cable and terminal connectors without support structure	36	Nos	2,016.00	72,576.00
10	132kV, 1 Ph, Post insulators complete with terminal connectors without support structure for bus support	37	Nos	1,008.00	37,296.00
11	132kV, 1 Ph, Post insulators Horizontally mounted on structure complete with terminal connectors without support structure for bus support	14	Nos	1,209.60	16,934.40
12	132 kV Wave Trap - Gantry mounted UnderHung at 11500mm	8	Nos	10,425.00	83,400.00
13	145 kV single tension insulator string assembly (120kN) with 1X10 Nos. antifog type disc insulator per string with all hardwares accessories including grading ring , with tension clamp suitable for single Moose conductor without turn buckle	9	Nos	2,620.00	23,580.00
14	145 kV single tension insulator string assembly (120kN) with 1X10 Nos. antifog type disc insulator per string with all hardwares accessories including grading ring , with tension clamp suitable for single Moose conductor with turn buckle	9	Nos	2,620.00	23,580.00
15	145 kV Double tension insulator string assembly (120kN per string) with 2X10 Nos. antifog type disc insulator per string with all hardwares accessories including grading ring , with tension clamp suitable for Twin Moose with 250mm sub conductor spacing without turn buckle	24	Nos	2,002.32	48,055.68
16	145 kV Double tension insulator string assembly (120kN per string) with 2X10 Nos. antifog type disc insulator per string with all hardwares accessories including grading ring , with tension clamp suitable for Twin Moose with 250mm sub conductor spacing with turn buckle	24	Nos	2,002.32	48,055.68
17	145 kV Single suspension string insulator assembly with 1X10 Nos.120 kN antifog type disc insulator per string with all hardwares accessories including Grading Ring for suitable for Pilot/drop type clamp for "Twin Moose" ACSR with 250 mm sub-conductor spacing	6	Nos	1,668.60	10,011.60
18	145 kV Single suspension string insulator assembly with 1X10 Nos.120 kN antifog type disc insulator per string with all hardwares accessories including Grading Ring for suitable for Pilot/drop type clamp for "Single Moose" ACSR	16	Nos	1,209.60	19,353.60
19	145 kV single suspension string insulator assembly with 1X10 Nos.120 KN antifog type disc insulator per string with all hardwares accessories for including Grading Ring with all hardwares accessories for suitable for through type clamp for "Twin Moose" ACSR with 250 mm sub-conductor spacing	18	Nos	1,668.60	30,034.80
20	Conductor complete with Tee connectors for droppers to equipment connections, PG clamps for busbar jumpering, Twin/Quad bundle rigid/flexible spacers etc to complete	5.5	kM	1,13,050.00	6,21,775.00
21	Supply of 7/9 SWG GI Stranded Shield wire	1500	m	63.50	95,250.00

Sl. No.	Description of Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
22	Stringing 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	1500	m	47.60	71,400.00
23	Cablings of 2C x 2.5 sq mm PVC/Copper cable including laying, tagging , dressing, ferruling, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates, ETC of glands - laying can be either on trays, supports, underground (buried in ground or through GI/PVC pipe), over 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. Refer Annexure-D for cable laying details. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be followed. Supply rates of Glands shall be quoted separately under item no. 38.	7.5	kM	11,769.60	88,272.00
24	Cablings of 2C x 2.5 sq mm PVC/Copper cable including laying, tagging , dressing, ferruling, lugging, installation of cable gland, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates- laying on Lighting Mast (LM of height 30m approx), Structures, Towers, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. double compression cable glands , ferrules, copper lugs, cable ties / straps, Aluminium flat for clamping, Aluminium tags, markers, GI / PVC wall sleeves with rubber / nylon bushes and flexible steel conduits shall be supplied by bidder. (Only Cable supply shall be in the scope of BHEL) Refer Annexure-D for cable laying details. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be followed. Supply rates of Glands shall be quoted separately under item no. 38.	5	kM	12,358.08	61,790.40
25	Cablings of 5C x 2.5 sq mm PVC/Copper cable including laying, tagging , dressing, ferruling, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates, ETC of glands - laying can be either on trays, supports, underground (buried in ground or through GI/PVC pipe), over 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. Refer Annexure-D for cable laying details. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be followed. Supply rates of Glands shall be quoted separately under item no. 39.	20	kM	21,420.00	4,28,400.00
26	Cablings of 10C x 2.5 sq mm PVC/Copper cable including laying, tagging , dressing, ferruling, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates, ETC of glands - laying can be either on trays, supports, underground (buried in ground or through GI/PVC pipe), over 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. Refer Annexure-D for cable laying details. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be followed. Supply rates of Glands shall be quoted separately under item no. 40.	18.5	kM	24,990.00	4,62,315.00
27	Cablings of 14C x 2.5 sq mm PVC/Copper cable including laying, tagging , dressing, ferruling, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates, ETC of glands - laying can be either on trays, supports, underground (buried in ground or through GI/PVC pipe), over 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. Refer Annexure-D for cable laying details. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be followed. Supply rates of Glands shall be quoted separately under item no. 41.	3	kM	27,370.00	82,110.00
28	Cablings of 19C x 2.5 sq mm PVC/Copper cable including laying, tagging , dressing, ferruling, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates, ETC of glands - laying can be either on trays, supports, underground (buried in ground or through GI/PVC pipe), over 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. Refer Annexure-D for cable laying details. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be followed. Supply rates of Glands shall be quoted separately under item no. 42.	3.5	kM	28,560.00	99,960.00

Sl. No.	Description of Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
29	Cabling of 2C x 6 sq mm PVC/Aluminium cable including laying, tagging , dressing, ferruling, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates, ETC of glands - laying can be either on trays, supports, underground (buried in ground or through GI/PVC pipe), over 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. Refer Annexure-D for cable details and its laying. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be followed. Supply rates of Glands shall be quoted separately under item no. 43.	2	kM	19,040.00	38,080.00
30	Cabling of 2C x 16 sq mm PVC/Aluminium cable including laying, tagging , dressing, ferruling, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates, ETC of glands - laying can be either on trays, supports, underground (buried in ground or through GI/PVC pipe), over 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. Refer Annexure-D for cable laying details. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be followed. Supply rates of Glands shall be quoted separately under item no. 44.	4	kM	22,248.00	88,992.00
31	Cabling of 4C x 6 sq mm Aluminium cable including laying, tagging , dressing, ferruling, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates, ETC of glands - laying can be either on trays, supports, underground (buried in ground or through GI/PVC pipe), over 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. Refer Annexure-D for cable laying details. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be follow. Supply rates of Glands shall be quoted separately under item no. 45.	3.5	kM	20,230.00	70,805.00
32	Cabling of 4C x 16 sq mm PVC/Aluminium cable including laying, tagging , dressing, ferruling, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates, ETC of glands - laying can be either on trays, supports, underground (buried in ground or through GI/PVC pipe), over 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. Refer Annexure-D for cable laying details. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed. Supply rates of Glands shall be quoted separately under item no. 46.	2.5	kM	27,370.00	68,425.00
33	Cabling of 3.5C x 35 sq mm PVC/Aluminium cable including laying, tagging , dressing, ferruling, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates, ETC of glands - laying can be either on trays, supports, underground (buried in ground or through GI/PVC pipe), over 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. Refer Annexure-D for cable laying details. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed Supply rates of Glands shall be quoted separately under item no. 47.	3.5	kM	28,560.00	99,960.00
34	Cabling of 1C x 70 sq mm PVC/Aluminium cable including laying, tagging , dressing, ferruling, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates, ETC of glands - laying can be either on trays, supports, underground (buried in ground or through GI/PVC pipe), over 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. Refer Annexure-D for cable laying details. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed Supply rates of Glands shall be quoted separately under item no. 48.	0.5	kM	17,850.00	8,925.00

Sl. No.	Description of Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
35	Cabling of 3.5C x 70 sq mm PVC/Aluminium cable including laying, tagging , dressing, ferruling, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates, ETC of glands - laying can be either on trays, supports, underground (buried in ground or through GI/PVC pipe), over 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. Refer Annexure-D for cable laying details. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed Supply rates of Glands shall be quoted separately under item no. 49.	8	kM	34,510.00	2,76,080.00
36	Cabling of 4C x 240 sq mm PVC/Aluminium cable including laying, tagging , dressing, ferruling, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates, ETC of glands - laying can be either on trays, supports, underground (buried in ground or through GI/PVC pipe), over 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. Refer Annexure-D for cable details and its laying. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed Supply rates of Glands shall be quoted separately under item no. 50.	1	kM	66,577.14	66,577.14
37	Cabling of 1C x 240 sq mm PVC/Aluminium cable including laying, tagging , dressing, ferruling, lugging, soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates, ETC of glands - laying can be either on trays, supports, underground (buried in ground or through GI/PVC pipe), over 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. Refer Annexure-D for cable details and its laying. Technical specification of cable tagging intervals, and lugs as per Customer/ field approval shall be followed Supply rates of Glands shall be quoted separately under item no. 51.	4	kM	43,275.14	1,73,100.56
38	Supply of Cable Gland for 2C x 2.5 sq mm PVC/Copper cable: The cable glands shall conform to BIS 6121. They shall comprise of heavy duty brass casting, machine finished, double compression type and Nickel plated (coating thickness not less than 10 microns) to avoid corrosion and oxidation. Rubber components used in cable glands shall be neoprene and of tested quality. The cable gland shall be complete with necessary armour clamp & tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only & ETC is covered under respective cable ETC ). The quantity shown herewith is indicative only and shall change to any extend as per Site requirement. (Cable glands to be procured from customer approved Vendors)	250	Nos	168.12	42,030.00
39	Supply of Cable Gland for 5C x 2.5 sq mm PVC/Copper cable: The cable glands shall conform to BIS 6121. They shall comprise of heavy duty brass casting, machine finished, double compression type and Nickel plated (coating thickness not less than 10 microns) to avoid corrosion and oxidation. Rubber components used in cable glands shall be neoprene and of tested quality. The cable gland shall be complete with necessary armour clamp & tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only & ETC is covered under respective cable ETC ). The quantity shown herewith is indicative only and shall change to any extend as per Site requirement. (Cable glands to be procured from Customer approved Vendors)	500	Nos	357.00	1,78,500.00
40	Supply of Cable Gland for 10C x 2.5 sq mm PVC/Copper cable: The cable glands shall conform to BIS 6121. They shall comprise of heavy duty brass casting, machine finished, double compression type and Nickel plated (coating thickness not less than 10 microns) to avoid corrosion and oxidation. Rubber components used in cable glands shall be neoprene and of tested quality. The cable gland shall be complete with necessary armour clamp & tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only & ETC is covered under respective cable ETC ). The quantity shown herewith is indicative only and shall change to any extend as per Site requirement. (Cable glands to be procured from Customer approved Vendors)	500	Nos	476.00	2,38,000.00
41	Supply of Cable Gland for 14C x 2.5 sq mm PVC/Copper cable: The cable glands shall conform to BIS 6121. They shall comprise of heavy duty brass casting, machine finished, double compression type and Nickel plated (coating thickness not less than 10 microns) to avoid corrosion and oxidation. Rubber components used in cable glands shall be neoprene and of tested quality. The cable gland shall be complete with necessary armour clamp & tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only & ETC is covered under respective cable ETC ). The quantity shown herewith is indicative only and shall change to any extend as per Site requirement. (Cable glands to be procured from Customer approved Vendors)	200	Nos	773.50	1,54,700.00

Sl. No.	Description of Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
42	Supply of Cable Gland for 19C x 2.5 sq mm PVC/Copper cable: The cable glands shall conform to BIS 6121. They shall comprise of heavy duty brass casting, machine finished, double compression type and Nickel plated (coating thickness not less than 10 microns) to avoid corrosion and oxidation. Rubber components used in cable glands shall be neoprene and of tested quality. The cable gland shall be complete with necessary armour clamp & tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only & ETC is covered under respective cable ETC ). The quantity shown herewith is indicative only and shall change to any extend as per Site requirement. (Cable glands to be procured from Customer approved Vendors)	250	Nos	1,011.50	2,52,875.00
43	Supply of Cable Gland for 2C x 6 sq mm PVC/Aluminium cable: The cable glands shall conform to BIS 6121. They shall comprise of heavy duty brass casting, machine finished, double compression type and Nickel plated (coating thickness not less than 10 microns) to avoid corrosion and oxidation. Rubber components used in cable glands shall be neoprene and of tested quality. The cable gland shall be complete with necessary armour clamp & tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only & ETC is covered under respective cable ETC ). The quantity shown herewith is indicative only and shall change to any extend as per Site requirement. (Cable glands to be procured from Customer approved Vendors)	50	Nos	185.33	9,266.50
44	Supply of Cable Gland for 2C x 16 sq mm PVC/Aluminium cable: The cable glands shall conform to BIS 6121. They shall comprise of heavy duty brass casting, machine finished, double compression type and Nickel plated (coating thickness not less than 10 microns) to avoid corrosion and oxidation. Rubber components used in cable glands shall be neoprene and of tested quality. The cable gland shall be complete with necessary armour clamp & tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only & ETC is covered under respective cable ETC ). The quantity shown herewith is indicative only and shall change to any extend as per Site requirement. (Cable glands to be procured from Customer approved Vendors)	100	Nos	278.10	27,810.00
45	Supply of Cable Gland for 4C x 6 sq mm PVC/Aluminium cable: The cable glands shall conform to BIS 6121. They shall comprise of heavy duty brass casting, machine finished, double compression type and Nickel plated (coating thickness not less than 10 microns) to avoid corrosion and oxidation. Rubber components used in cable glands shall be neoprene and of tested quality. The cable gland shall be complete with necessary armour clamp & tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only & ETC is covered under respective cable ETC ). The quantity shown herewith is indicative only and shall change to any extend as per Site requirement. (Cable glands to be procured from Customer approved Vendors)	75	Nos	476.00	35,700.00
46	Supply of Cable Gland for 4C x 16 sq mm PVC/Aluminium cable: The cable glands shall conform to BIS 6121. They shall comprise of heavy duty brass casting, machine finished, double compression type and Nickel plated (coating thickness not less than 10 microns) to avoid corrosion and oxidation. Rubber components used in cable glands shall be neoprene and of tested quality. The cable gland shall be complete with necessary armour clamp & tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only & ETC is covered under respective cable ETC ). The quantity shown herewith is indicative only and shall change to any extend as per Site requirement. (Cable glands to be procured from Customer approved Vendors)	50	Nos	535.50	26,775.00
47	Supply of Cable Gland for 3.5C x 35 sq mm PVC/Aluminium cable: The cable glands shall conform to BIS 6121. They shall comprise of heavy duty brass casting, machine finished, double compression type and Nickel plated (coating thickness not less than 10 microns) to avoid corrosion and oxidation. Rubber components used in cable glands shall be neoprene and of tested quality. The cable gland shall be complete with necessary armour clamp & tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only & ETC is covered under respective cable ETC ). The quantity shown herewith is indicative only and shall change to any extend as per Site requirement. (Cable glands to be procured from Customer approved Vendors)	60	Nos	476.00	28,560.00
48	Supply of Cable Gland for 1C x 70 sq mm PVC/Aluminium cable: The cable glands shall conform to BIS 6121. They shall comprise of heavy duty brass casting, machine finished, double compression type and Nickel plated (coating thickness not less than 10 microns) to avoid corrosion and oxidation. Rubber components used in cable glands shall be neoprene and of tested quality. The cable gland shall be complete with necessary armour clamp & tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only & ETC is covered under respective cable ETC ). The quantity shown herewith is indicative only and shall change to any extend as per Site requirement. (Cable glands to be procured from Customer approved Vendors)	20	Nos	238.00	4,760.00

Sl. No.	Description of Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
49	Supply of Cable Gland for 3.5C x 70 sq mm PVC/Aluminium cable: The cable glands shall conform to BIS 6121. They shall comprise of heavy duty brass casting, machine finished, double compression type and Nickel plated (coating thickness not less than 10 microns) to avoid corrosion and oxidation. Rubber components used in cable glands shall be neoprene and of tested quality. The cable gland shall be complete with necessary armour clamp & tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only & ETC is covered under respective cable ETC ). The quantity shown herewith is indicative only and shall change to any extend as per Site requirement. (Cable glands to be procured from Customer approved Vendors)	200	Nos	336.22	67,244.00
50	Supply of Cable Gland for 4C x 240 sq mm PVC/Aluminium cable: The cable glands shall conform to BIS 6121. They shall comprise of heavy duty brass casting, machine finished, double compression type and Nickel plated (coating thickness not less than 10 microns) to avoid corrosion and oxidation. Rubber components used in cable glands shall be neoprene and of tested quality. The cable gland shall be complete with necessary armour clamp & tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only & ETC is covered under respective cable ETC ). The quantity shown herewith is indicative only and shall change to any extend as per Site requirement. (Cable glands to be procured from Customer approved Vendors)	20	Nos	2,660.42	53,208.40
51	Supply of Cable Gland for 1C x 240 sq mm PVC/Aluminium cable: The cable glands shall conform to BIS 6121. They shall comprise of heavy duty brass casting, machine finished, double compression type and Nickel plated (coating thickness not less than 10 microns) to avoid corrosion and oxidation. Rubber components used in cable glands shall be neoprene and of tested quality. The cable gland shall be complete with necessary armour clamp & tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only & ETC is covered under respective cable ETC ). The quantity shown herewith is indicative only and shall change to any extend as per Site requirement. (Cable glands to be procured from Customer approved Vendors)	100	Nos	483.84	48,384.00
52	Laying of 150 mm wide, 2.5 M long , 2 mm thick GI Ladder type Cable trays: including bends, tees, elbow, reducers, stiffeners coupler plates, bolting to racks, structure etc. to complete. Minor modification work by cutting welding wherever required shall also be part of work.	20	Nos	119.00	2,380.00
53	Laying of 300 mm wide, 2.5 M long , 2 mm thick GI Ladder type Cable trays: including bends, tees, elbow, reducers, stiffeners coupler plates, bolting to racks, structure etc. to complete. Minor modification work by cutting welding wherever required shall also be part of work.	35	Nos	178.50	6,247.50
54	Laying of 550 mm wide, 2.5 M long , 2 mm thick GI Ladder type Cable trays: including bends, tees, elbow, reducers, stiffeners coupler plates, bolting to racks, structure etc. to complete. Minor modification work by cutting welding wherever required shall also be part of work.	5	Nos	327.25	1,636.25
55	Laying of 700 mm wide, 2.5 M long , 2 mm thick GI Ladder type Cable trays: including bends, tees, elbow, reducers, stiffeners coupler plates, bolting to racks, structure etc. to complete. Minor modification work by cutting welding wherever required shall also be part of work.	5	Nos	388.73	1,943.65
56	Cable Rack work for trenches in switchyard and control room as per Cable Trench Layout drgs. nos. 5602-003-H230-PVE-F-109 & 5602-003-H230-PVE-B-065-01. Cable rack assembly will be of 2/3/4 tier. (Cable Rack/Tray material shall be free issued by BHEL)	10.58	MT	23,887.80	2,52,732.92
57	Supply of 63mm Dia PVC pipe (class 4 as per IS 4985, Customer accepted) alongwith accessories like sockets, bends, tees etc.	300	m	85.80	25,740.00
58	Supply of 110mm Dia PVC pipe (class 4 as per IS 4985, Customer accepted) alongwith accessories like sockets, bends, tees etc.	700	m	164.00	1,14,800.00
59	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)	900	m	64.87	58,383.00
60	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)	2000	m	77.50	1,55,000.00
61	Supply of 50 NB GI pipes (Medium grade as per IS 1239, Customer accepted) alongwith accessories like sockets, bends, tees etc.	300	m	340.00	1,02,000.00
62	Supply of 100 NB GI pipes (Medium grade as per IS 1239, Customer accepted) alongwith accessories like sockets, bends, tees etc.	700	m	831.00	5,81,700.00
63	Laying of 50 NB GI 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)	900	m	130.90	1,17,810.00

Sl. No.	Description of Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
64	Laying of 100 NB NB GI 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)	2000	m	190.40	3,80,800.00
65	Laying of 50 NB GI pipes alongwith all accessories like socket, bend and joint on trench rack support, cutting, threading, fixing of clamps sockets/ bends/joints etc as required. Supply of required clamp for fixing GI pipe conduits on Cable rack/tray/trench wall shall be in ETC contractor scope. (Payment will be made for the as erected pipe length)	100	m	130.90	13,090.00
66	Supply of 25 mm Dia HDPE Pipe alongwith accessories	50	m	64.09	3,204.50
67	Supply of 40 mm Dia HDPE Pipe alongwith accessories	1000	m	183.12	1,83,120.00
68	Laying of 25 mm Dia HDPE pipe conduits alongwith all accessories like socket, bend and joint on trench rack support, cutting, threading, fixing of clamps sockets/ bends/joints etc as required. Supply of required clamp for fixing HDPE pipe conduits on Cable rack/tray/trench wall shall be in ETC contractor scope. (Payment will be made for the as erected pipe length)	50	m	114.45	5,722.50
69	Laying of 40 mm Dia HDPE pipe conduits alongwith all accessories like socket, bend and joint on trench rack support, cutting, threading, fixing of clamps sockets/ bends/joints etc as required. Supply of required clamp for fixing HDPE pipe conduits on Cable rack/tray/trench wall shall be in ETC contractor scope. (Payment will be made for the as erected pipe length)	1000	m	114.45	1,14,450.00
70	Earthing works with 75 X 12 mm GI FLAT- works earthing of all switchyard equipments, towers, lattice/pipe structure, cable trenches, fence & at interconnections of other grid, Control Room equipment using necessary Connectors for earthing flats. 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 5602-003-H230-PVE-E-100 and Customer Specification for Earthing	6.3	kM	1,78,500.00	11,24,550.00
71	Earthing works with 50 X 6 mm GI FLAT- works earthing of all switchyard equipments, towers, lattice/pipe structure, cable trenches, fence and at interconnections of other grid, Control Room equipment using necessary Connectors for earthing flats. 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 5602-003-H230-PVE-E-100 and Customer Specification for Earthing	1.7	kM	89,250.00	1,51,725.00
72	Earthing works with 40mm dia MS Rod (for equipment risers,if required)- works including cutting, bending, welding with 40 mm dia MS rod riser, bolting/ clamping to structure, Painting etc to complete. Equipment's to be earthed includes all switchyard equipments, towers, lattice/pipe structure, cable trenches, fence, electrodes for neutral of LT transformer/Reactor, Control Room equipments using necessary Connectors for earthing flats. Earthing work to be done as per Doc no. 5602-003-H230-PVE-E-100 for equipments earthing and Customer Specification for Earthing	40	MT	29,277.77	11,71,110.80
73	Galvanised steel Lattice Structures including hardware for Towers, beams, LM & equipments support	250	MT	7,735.00	19,33,750.00
74	Galvanised steel Pipe Structures including hardware for equipments support	30	MT	6,531.78	1,95,953.40
75	Supply of Equipment fixing hardware including nut, bolt and plain /spring washer as per Site requirement (Bidder's scope is to supply only. Erection is covered under erection of individual equipment) Technical specifications of Hardware to be supplied by bidder shall be as per Annexure-E. Note - Size of hardware shall be suitable for equipments /box/JB, and same shall be decided at site.	150	kg	89.00	13,350.00
76	132kV Busbar Relay Panel: The scope of work includes erection, testing & commissioning of Control Relay Panel/ SAS Panel, however, supervision of testing and commissioning of relays is in scope of OEM/ BHEL. Arranging necessary manpower support, tools, tackles and testing equipment required shall be in scope of ETC contractor. Please refer notes and relevant technical specification for additional details. Numerical relay test kit shall be in scope of OEM/BHEL.	1	No	19,040.00	19,040.00
77	132kV ST Bay Protection Panel: The scope of work includes erection, testing & commissioning of Control Relay Panel/ SAS Panel, however, supervision of testing and commissioning of relays is in scope of OEM/ BHEL. Arranging necessary manpower support, tools, tackles and testing equipment required shall be in scope of ETC contractor. Please refer notes and relevant technical specification for additional details. Numerical relay test kit shall be in scope of OEM/BHEL.	4	Nos	19,040.00	76,160.00

Sl. No.	Description of Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
78	132kV ST Bay Control Panel: The scope of work includes erection, testing & commissioning of Control Relay Panel/ SAS Panel, however, supervision of testing and commissioning of relays is in scope of OEM/ BHEL. Arranging necessary manpower support, tools, tackles and testing equipment required shall be in scope of ETC contractor. Please refer notes and relevant technical specification for additional details. Numerical relay test kit shall be in scope of OEM/BHEL.	1	No	19,040.00	19,040.00
79	132kV Line Bay Protection Panel: The scope of work includes erection, testing & commissioning of Control Relay Panel/ SAS Panel, however, supervision of testing and commissioning of relays is in scope of OEM/ BHEL. Arranging necessary manpower support, tools, tackles and testing equipment required shall be in scope of ETC contractor. Please refer notes and relevant technical specification for additional details. Numerical relay test kit shall be in scope of OEM/BHEL.	8	Nos	19,040.00	1,52,320.00
80	132kV Line Bay Control Panel: The scope of work includes erection, testing & commissioning of Control Relay Panel/ SAS Panel, however, supervision of testing and commissioning of relays is in scope of OEM/ BHEL. Arranging necessary manpower support, tools, tackles and testing equipment required shall be in scope of ETC contractor. Please refer notes and relevant technical specification for additional details. Numerical relay test kit shall be in scope of OEM/BHEL.	2	Nos	19,040.00	38,080.00
81	132kV Bus Coupler Protection Panel: The scope of work includes erection, testing & commissioning of Control Relay Panel/ SAS Panel, however, supervision of testing and commissioning of relays is in scope of OEM/ BHEL. Arranging necessary manpower support, tools, tackles and testing equipment required shall be in scope of ETC contractor. Please refer notes and relevant technical specification for additional details. Numerical relay test kit shall be in scope of OEM/BHEL.	1	No	19,040.00	19,040.00
82	132kV Bus Coupler Control Panel: The scope of work includes erection, testing & commissioning of Control Relay Panel/ SAS Panel, however, supervision of testing and commissioning of relays is in scope of OEM/ BHEL. Arranging necessary manpower support, tools, tackles and testing equipment required shall be in scope of ETC contractor. Please refer notes and relevant technical specification for additional details. Numerical relay test kit shall be in scope of OEM/BHEL.	1	No	19,040.00	19,040.00
83	132kV GT Bay Protection Panel: The scope of work includes erection, testing & commissioning of Control Relay Panel/ SAS Panel, however, supervision of testing and commissioning of relays is in scope of OEM/ BHEL. Arranging necessary manpower support, tools, tackles and testing equipment required shall be in scope of ETC contractor. Please refer notes and relevant technical specification for additional details. Numerical relay test kit shall be in scope of OEM/BHEL.	3	Nos	19,040.00	57,120.00
84	132kV GT Bay Control Panel: The scope of work includes erection, testing & commissioning of Control Relay Panel/ SAS Panel, however, supervision of testing and commissioning of relays is in scope of OEM/ BHEL. Arranging necessary manpower support, tools, tackles and testing equipment required shall be in scope of ETC contractor. Please refer notes and relevant technical specification for additional details. Numerical relay test kit shall be in scope of OEM/BHEL.	2	Nos	19,040.00	38,080.00
85	132kV Islanding Panel: The scope of work includes erection, testing & commissioning of Control Relay Panel/ SAS Panel, however, supervision of testing and commissioning of relays is in scope of OEM/ BHEL. Arranging necessary manpower support, tools, tackles and testing equipment required shall be in scope of ETC contractor. Please refer notes and relevant technical specification for additional details. Numerical relay test kit shall be in scope of OEM/BHEL.	2	Nos	5,040.00	10,080.00
86	132kV Energy Metering Panel: The scope of work includes erection, testing & commissioning of Control Relay Panel/ SAS Panel, however, supervision of testing and commissioning of relays is in scope of OEM/ BHEL. Arranging necessary manpower support, tools, tackles and testing equipment required shall be in scope of ETC contractor. Please refer notes and relevant technical specification for additional details. Numerical relay test kit shall be in scope of OEM/BHEL.	4	Nos	5,040.00	20,160.00
87	SAS Panel: The scope of work includes erection, testing & commissioning of Control Relay Panel/ SAS Panel, however, supervision of testing and commissioning of relays is in scope of OEM/ BHEL. Arranging necessary manpower support, tools, tackles and testing equipment required shall be in scope of ETC contractor. Please refer notes and relevant technical specification for additional details. Numerical relay test kit shall be in scope of OEM/BHEL.	2	Nos	5,040.00	10,080.00
88	Auxiliary Panel: The scope of work includes erection, testing & commissioning of Control Relay Panel/ SAS Panel, however, supervision of testing and commissioning of relays is in scope of OEM/ BHEL. Arranging necessary manpower support, tools, tackles and testing equipment required shall be in scope of ETC contractor. Please refer notes and relevant technical specification for additional details. Numerical relay test kit shall be in scope of OEM/BHEL.	1	No	5,040.00	5,040.00
89	Operator work station (OWS). The scope of work includes erection, testing & commissioning of OWS, however, supervision of testing and commissioning of OWS is in scope of OEM/ BHEL. Arranging necessary manpower support, tools, tackles and testing equipment required shall be in scope of ETC contractor. Please refer notes and relevant technical specification for additional details. Numerical relay test kit shall be in scope of OEM/BHEL.	3	Nos	597.20	1,791.60



Sl. No.	Description of Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
90	Engineering work station (EWS)/ Engg & DR Workstation. The scope of work includes erection, testing & commissioning of EWS, however, supervision of testing and commissioning of EWS is in scope of OEM/ BHEL. Arranging necessary manpower support, tools, tackles and testing equipment required shall be in scope of ETC contractor. Please refer notes and relevant technical specification for additional details. Numerical relay test kit shall be in scope of OEM/BHEL.	2	Nos	597.20	1,194.40
91	Metering Master Station station (EWS)/ Engg & DR Workstation. The scope of work includes erection, testing & commissioning of EWS, however, supervision of testing and commissioning of EWS is in scope of OEM/ BHEL. Arranging necessary manpower support, tools, tackles and testing equipment required shall be in scope of ETC contractor. Please refer notes and relevant technical specification for additional details. Numerical relay test kit shall be in scope of OEM/BHEL.	1	No	597.20	597.20
92	A4 Laser color Printer The scope of work includes erection, testing & commissioning of printer, however, supervision of testing and commissioning of printer is in scope of OEM/ BHEL.	1	No.	298.60	298.60
93	A3 Laser color Printer The scope of work includes erection, testing & commissioning of printer, however, supervision of testing and commissioning of printer is in scope of OEM/ BHEL.	2	No.	298.60	597.20
94	Hi End Dot Matrix printer The scope of work includes erection, testing & commissioning of printer, however, supervision of testing and commissioning of printer is in scope of OEM/ BHEL.	1	No	457.65	457.65
95	UPS. The scope of work includes erection, testing & commissioning of UPS	2	No.	1,008.00	2,016.00
96	Time Synchronizing equipment's (GPS) – complete in all respects including antenna, all cables, processing equipment's etc. The scope of work includes erection, testing & commissioning of GPS, however, supervision of testing and commissioning of GPS is in scope of OEM/ BHEL. Arranging necessary manpower support, tools, tackles and testing equipment required shall be in scope of ETC contractor. Please refer notes and relevant technical specification for additional details.	2	No.	1,997.31	3,994.62
97	Handling & installation of furniture required in Auxiliary Building adjacent to Switchyard for OWS, printer, servers, cabinet etc. .	1	Lot	1,791.58	1,791.58
98	Common equipment's : Relay Test Kit (Only Handling and storage)	1	No.	292.01	292.01
99	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.)	1	Km	41,650.00	41,650.00
100	Main 415V ACDB with 2/3/4 incomers	1	Set	29,750.00	29,750.00
101	220V DCDB with 2/4 incomers	1	Set	11,900.00	11,900.00
102	48V DCDB with 1/2 incomers from battery charger	1	Set	10,080.00	10,080.00
103	415V MLDB with 1/2 incomers from 415 V ACDB	1	Set	35,280.00	35,280.00
104	CT Junction Box (on CT structure)	10	Nos	2,023.00	20,230.00
105	CVT Junction Box (on CVT structure)	6	Nos	2,023.00	12,138.00
106	Marshalling Kiosk	10	Nos	5,950.00	59,500.00
107	AC kiosk (Air conditioned kiosk) Type-A,Size L x Bx H (4.5mx3.5mx3m) without air conditioners and made of sandwich insulated panels with Poly Urethane Foam (PUF) as filler material between polyester pre-coated cold rolled steel. [Only unloading, storage and handling between store & erection place at site has to be considered]	3	Nos	4,167.01	12,501.03
108	AC kiosk (Air conditioned kiosk) Type-B,Size L x Bx H (6.5mx3.5mx3m) without air conditioners and made of sandwich insulated panels with Poly Urethane Foam (PUF) as filler material between polyester pre-coated cold rolled steel. [Only unloading, storage and handling between store & erection place at site has to be considered]	3	Nos	6,019.02	18,057.06
109	Air Conditioner of above AC kiosk (2TR) [Only unloading, storage and handling between store & erection place at site has to be considered]	12	Nos	2,431.17	29,174.04
110	48 V, upto 150 AH Battery Bank (Lead Acid/ Ni-Cd) including all accessories. Note - Supervision of ETC will be in supplier scope.	2	Set	25,200.00	50,400.00
111	Battery Health Monitoring system for 48 V DC System (Battery Bank, Charger & DCDB) including all accessories. Note - Supervision of ETC will be in supplier scope.	2	Set	1,144.50	2,289.00
112	48 V, Battery charger for Battery Bank (Float cum Boost Charger) Note - Supervision of ETC will be in supplier scope.	4	Nos	10,080.00	40,320.00
113	Manual changeover selector switch panel for 48V DCDB, Battery & Charger System (comprising of DC Change over switch, DC Panel etc.	2	Set	5,562.00	11,124.00
114	Fire cum water barrier for cable penetration in walls (make of fire sealing material subject to customer approval). Refer attached Annexure-D clause 13.00.00 for detailed technical specification of fire sealing and break material) The work includes supply & ETC of the material.	10	Sq.m	11,900.00	1,19,000.00
115	Fire cum water barrier for cable penetration in floors (make of fire sealing material subject to customer approval). Refer attached Annexure-D clause 13.00.00 for detailed technical specification of fire sealing and break material) The work includes supply & ETC of the material.	5	Sq.m	7,735.00	38,675.00
116	Supplying & laying of insulating Rubber mats (Class-A suitable for 1.1 kV as per IS: 15652) in front of Panels	50	Sq.m	1,785.00	89,250.00

Sl. No.	Description of Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
117	Panel Supporting MS Angles /Chequered Plates/ Channel etc on cable trench in Control Room, Vertical support for cables etc (Including Supply, cutting welding, fabrication work and Painting)	1	MT	89,250.00	89,250.00
118	Supply of required size (M12/M16/M20 upto 150mm long) of Anchor Fastner /Bolts and fixing in Concrete/wall/ceiling wherever required.	20	kg	133.15	2,663.00
119	Unloading, storage & handing over of Essential/ Mandatory spares/ Maintenance equipments and Instruments to Customer. Refer enclosed Annexure-A for list of spares.	1	Lot	59,500.00	59,500.00
120	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	44,782.65	5,37,391.80
121	Installing terminal connectors on GT HV bushing in transformer yard (For GT, any ETC work other than installation of connector is not in scope of contractor). Connectors shall be provided by BHEL.	3	Nos	228.97	686.91
122	Installing terminal connectors on ST HV bushing in transformer yard (For ST, any ETC work other than installation of connector is not in scope of contractor). Connectors shall be provided by BHEL.	6	Nos	228.97	1,373.82
123	Supply & ETC of customer approved make 2 HP Automatic Start/ Stop type Centrifugal pump and accessories for sump pit	1	Set	11,425.68	11,425.68
124	Supply & ETC of customer approved make 0.5 HP Automatic Start/ Stop type Centrifugal pump and accessories for sump pit	2	Nos	6,855.53	13,711.06
125	Handling & installation of furniture required in Power house control room for Switchyard SCADA/ SAS system	1	Lot	1,791.58	1,791.58
<b>Total Amount (in Rs.)- Excluding GST</b>					<b>143,39,483</b>

**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 132 KV SWITCHYARD FOR NTPC RAMMAM 3 X 40 MW HEP IN SIKKIM".**

**TENDER SPEC. NO.: - TBSM/NTPC/RAMMAM/ETC/TENDER/20-21/01**

**DATE 19.11.2020**

(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 132 KV SWITCHYARD FOR NTPC RAMMAM 3 X 40 MW HEP IN SIKKIM.**

**TENDER SPECIFICATION NO.:-TBSM/NTPC/RAMMAM/ETC/TENDER/20-21/01, DATE 19.11.2020**

<b>Sl No.</b>	<b>Description</b>	<b>Amount (Rs.)</b>
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 132 kV Switchyard for NTPC Rammam 3 X 40 MW HEP in Sikkim." <b>(Annexure-I)</b>	143,39,483.00
2	Value of percentage above/below/at par (As indicated in Price Schedule Format, <b>Annexure-II</b> ) applicable to the total amount of ETC work ( at Sl. no. 1 above)	.....% above/below/ at par
3	<b>Total amount after consideration of percentage above/below/ at par.</b>	
4	<b>Total amount (in words) after consideration of percentage above/below/ at par.</b>	