

# BOQ cum Price Schedule (Annexure-I)

**Name of the Work:-** Receipt of equipment/ material at site, inspection, verification, erection, testing, commissioning and handing over of 400kV pothead yard of PUNATSANGCHHU-II HYDROELECTRIC PROJECT (6X170MW), TRONGSA, BHUTAN.

Sl.No.	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
1	<b>400kV, 3-Phase, Horizontal Double Break Isolator(motor/ manual operated) with two earth switch</b> (motor/ manual operated) complete with 9 nos. of support insulators & terminal connectors without support structure	6	Nos	29184.44	175106.66
2	400kV, 1 Ph, 2000A, Oil-filled Current Transformer, live/dead tank complete with terminal connectors without support structure	18	Nos	15287.09	275167.66
3	400kV, 1 Ph, Voltage Transformer (Capacitive) complete with terminal connectors without support structure	18	Nos	14908.07	268345.32
4	390kV, 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	18	Nos	13139.31	236507.65
5	400kV, 1 Ph, Post insulators with corona ring complete with terminal connectors without support structure	6	Nos	12507.62	75045.71
6	400kV, 1 Ph, Wave Trap (Pedestal type) complete with 3 nos. post insulators per WT with terminal connectors without support structure.	12	Nos	14182.26	170187.12
7	CT Junction Box (on foundation/structure)	6	Nos	5306.26	31837.58
8	CVT Junction Box (on foundation/structure)	6	Nos	5306.26	31837.58
9	Bay Marshalling Kiosks ( Outdoor, Floor mounted on cable trench)	6	Nos	9096.45	54578.70
10	Galvanised steel Lattice Structures including hardware for Towers, beams, LM & equipments support	130	MT	16676.83	2167987.25
11	Installing terminal connectors for equipment where any ETC work other than installation of connector is not in scope of contractor. (Connectors shall be provided by BHEL)	18	No. of bushings	228.14	4106.44
12	400kV Double Tension insulator string with double/single anchoring point, string comprising 2X25 nos. disc with hardware set with all accessories including tension clamp with/ without Turn Buckle set suitable for twin/ quad conductor	3	Sets	18950.94	56852.81
13	400kV Single Suspension insulator string comprising 1X25 nos. disc with hardware set with all accessories including drop/through type suspension clamp suitable for single/ twin/ quad conductor	18	Nos	15666.11	281990.00
14	400kV Single Tension insulator string with double/single anchoring point, string comprising 1X25 nos. disc with hardware set with all accessories including tension clamp with/ without Turn Buckle set suitable for twin/ quad conductor	3	Sets	15666.11	46998.33
15	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	1400	m	88.44	123816.33
16	Conductor complete with Tee connectors for droppers to equipment connections, PG clamps for busbar jumpering, Twin/Quad bundle rigid/flexible spacers etc to complete	1.8	kM	110790.10	199422.18
17	4.0" Al Tube (ETC of Al.Tube includes Aluminium welding and bending to be included. Welding sleeve and tube will be supplied by BHEL)	450	m	846.83	381075.31
18	Cabling of 19C x 2.5 sq mm 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. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be followed. Supply rates of Glands shall be quoted separately.	0.5	kM	53062.63	26531.31
19	Cabling of 14C x 2.5 sq mm 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. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be followed. Supply rates of Glands shall be quoted separately.	0.5	kM	50030.48	25015.24

Sl.No.	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
20	Cabling of 12C x 2.5 sq mm 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. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be followed. Supply rates of Glands shall be quoted separately.	0.5	kM	36716.58	18358.29
21	Cabling of 10C x 2.5 sq mm 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. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be followed. Supply rates of Glands shall be quoted separately.	0.5	kM	34111.69	17055.84
22	Cabling of 7C x 2.5 sq mm 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. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be followed. Supply rates of Glands shall be quoted separately.	0.5	kM	25773.28	12886.64
23	Cabling of 5C x 2.5 sq mm 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. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be followed. Supply rates of Glands shall be quoted separately.	0.5	kM	26531.31	13265.66
24	Cabling of 2C 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. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be follow. <u>Supply rates of Glands shall be quoted separately.</u>	0.5	kM	37901.88	18950.94
25	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. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be follow. <u>Supply rates of Glands shall be quoted separately.</u>	0.5	kM	60643.00	30321.50
26	Cabling of 4C x 16 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. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be follow. <u>Supply rates of Glands shall be quoted separately.</u>	1	kM	68223.38	68223.38

Sl.No.	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
27	Cabling of 3.5C x 35 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. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be follow. <u>Supply rates of Glands shall be quoted separately.</u>	0.5	kM	19932.60	9966.30
28	Cabling of 3.5C x 70 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. Technical specification of cable tagging intervals, and lugs as per Customer /field approval shall be follow. <u>Supply rates of Glands shall be quoted separately.</u>	0.5	kM	28895.10	14447.55
29	Laying of 100 to 750 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.	100	Nos	2639.35	263935.01
30	<b>Cable Rack work for WELDED TYPE</b> steel racks for trenches in outdoor switchyard and OR indoor area. Cable rack assembly will be of 1/2/3 tier. Work includes welding of Galvanised Steel racks on inserts on trench walls in trenches in indoor area. (Supply of Cable Rack/Tray material shall be covered separately)	200	Nos	1790.61	358121.17
31	<b>Cable Rack work for WELDED TYPE</b> steel racks. Work includes welding of Galvanised Steel underhung/ wall mounted racks assembly on Embedded plates/ inserts in ceiling/ walls of cable vault. Cable rack assembly will be of 1/2/3 tier.. (Supply of Cable Rack/Tray material shall be covered separately)	100	Nos	1790.61	179060.59
32	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)	400	m	186.99	74794.04
33	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)	250	m	267.84	66959.35
34	Fixing of 50 NB NB GI pipes on Lattice/ Pipe Stucture 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)	30	m	394.18	11825.39
35	Fixing of 100 NB NB GI pipes on Lattice/ Pipe Stucture 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	m	606.43	30321.50
36	Earthing works with 75 X 12 mm GI FLAT- works earthing of all pothead yard equipment, towers, lattice/pipe structure, cable trenches, fence, electrodes for neutral of LT transformer/ Reactor & 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 TB-4-365-318-006 and Customer Specification for Earthing	2500	m	106.13	265313.13
37	Earthing works with 50 X 6 mm GI FLAT- works earthing of all pothead yard equipments, towers, lattice/pipe structure, cable trenches, fence, electrodes for neutral of LT transformer/ Reactor & 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 TB-4-365-318-006 and Customer Specification for Earthing	750	m	111.18	83386.02
38	Installing of 40 mm diameter Rod Electrode without test pit/link as per Equipment Earthing drawing including following works: - excavation/hammering of rod in earth - installing the rod electrode - backfilling and compaction - any other work necessary to complete the work  (40 mm Diameter MS rod will be supplied by BHEL)	2	Nos.	7580.38	15160.75

Sl.No.	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
39	Installing of 40/100 mm dia GS pipe Electrode (length - 3.0 Mtr) with test links and treated earth pit as per Equipment Earthing drawing with CI frame and hinged cover alongwith all associated civil works i.e - excavation - installing the pipe electrode with alternate layers of Coke & charcoal, salt - backfilling and compaction - Casting the Test Pit with Cast Iron covers - any other work necessary to complete the work (Only GI Pipe, Nuts, Bolts & Washers, test links will be supplied by BHEL. Other items like CI frame, CI cover, charcoal, salt etc shall be supplied by contractor)	2	Nos.	13644.68	27289.35
40	Fabrication & laying of Auxiliary Mat of 40 mm Dia MS Rods at a depth of 300 mm from top of FGL including excavation & backfilling as per Equipment Earthing drawing & connection with existing main earthmat - any other work necessary to complete the laying of earthmat (40 mm Diameter MS rod will be supplied by BHEL)	36	Nos.	3916.53	140995.07
41	<b>Unloading, storage &amp; handing over of Essential/ Mandatory spares/ Maintenance equipments and Instruments to Customer.</b> Refer enclosed <b>Annexure-A</b> for list of spares.	1	Lot	37901.88	37901.88
42	<b>Installation</b> of customer/ BHEL approved make 0.5 HP Automatic Start/ Stop type Centrifugal pump (self priming) and accessories for sump pit	1	Nos	2274.11	2274.11
43	<b>Supply of 7/9 SWG GI Stranded Shield wire</b> as per Annexure - E7	1400	m	63.50	88900.00
44	<b>Supply of ACSR Single Moose Conductor</b> as per Annexure - E6	1.8	kM	318941.00	574093.80
45	<b>Supply of 4.0" Al Tube (Tube to be supplied in 7/6/5m cut lengths.</b> Cut length wise quantity shall be provided by BHEL after award of order.) Technical specifications of Al. tube to be supplied by bidder shall be as per Annexure-E2.	450	m	1696.84	763577.10
46	<b>Supply</b> of Cable Gland for 19C x 2.5 sq mm 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 Chrome 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)	30	Nos	359.41	10782.24
47	<b>Supply</b> of Cable Gland for 14C x 2.5 sq mm 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 Chrome 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)	30	Nos	298.95	8968.59
48	<b>Supply</b> of Cable Gland for 12C x 2.5 sq mm 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 Chrome 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)	30	Nos	290.74	8722.16
49	<b>Supply</b> of Cable Gland for 10C x 2.5 sq mm 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 Chrome 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)	70	Nos	269.05	18833.80

Sl.No.	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
50	<p><b>Supply</b> of Cable Gland for 7C x 2.5 sq mm 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 Chrome 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 &amp; tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only &amp; ETC is covered under respective cable ETC ).</p> <p>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)</p>	30	Nos	211.69	6350.71
51	<p><b>Supply</b> of Cable Gland for 5C x 2.5 sq mm 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 Chrome 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 &amp; tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only &amp; ETC is covered under respective cable ETC ).</p> <p>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)</p>	30	Nos	176.41	5292.16
52	<p><b>Supply</b> of Cable Gland for 2C x 6 sq mm 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 Chrome 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 &amp; tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only &amp; ETC is covered under respective cable ETC ).</p> <p>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)</p>	40	Nos	219.71	8788.51
53	<p><b>Supply</b> of Cable Gland for 4C x 6 sq mm 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 Chrome 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 &amp; tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only &amp; ETC is covered under respective cable ETC ).</p> <p>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)</p>	60	Nos	298.95	17937.19
54	<p><b>Supply</b> of Cable Gland for 4C x 16 sq mm 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 Chrome 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 &amp; tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only &amp; ETC is covered under respective cable ETC ).</p> <p>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)</p>	60	Nos	298.95	17937.19
55	<p><b>Supply</b> of Cable Gland for 3.5C x 35 sq mm 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 Chrome 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 &amp; tapered washer etc. Cable glands are required for the following cables for dust and weather proof terminations. (Bidder's Scope is to supply only &amp; ETC is covered under respective cable ETC ).</p> <p>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)</p>	12	Nos	348.78	4185.42

Sl.No.	Description_of_Item	Quantity	UOM	Unit Rate (Rs.)	Total Amount (Rs.)
56	<b>Supply</b> of Cable Gland for 3.5C x 70 sq mm 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 Chrome 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)	12	Nos	398.60	4783.25
57	<b>Supply of</b> 500 mm wide, 100 mm high, 2 mm tk. (min.) galvanised iron slotted rung type <b>ladder cable trays</b> each 2.5 m long with 2 nos. Side plate, 3 mm tk. (min.) along with 16 nos. M8 bolts with nuts and washers for coupling two trays mm.	3	MT	78000.00	234000.00
58	<b>Supply of</b> 150 mm wide, 100 mm high, 2 mm tk. (min.) galvanised iron slotted rung type <b>ladder cable trays</b> each 2.5 m long with 2 nos. Side plate, 3 mm tk. (min.) along with 16 nos. M8 bolts with nuts and washers for coupling two trays mm.	1	MT	78000.00	78000.00
59	<b>Supply of Cable Rack WELDED TYPE</b> galvanised steel racks assembly for trenches in outdoor switchyard and OR indoor area. Cable rack assembly will be 3 tier assembly as per the section G-G shown in enclosed layout drawing. Galvanised MS angle of 50x50x6 size with mass of zinc coating 610gm/sq. mm. shall be supplied by bidder as per Annexure-E8.	3	MT	66000.00	198000.00
60	<b>Supply of Galvanised MS angle of 50x50x6 size with mass of zinc coating 610gm/sq. mm for trench section</b> H-H shown in enclosed layout drawing & as per Annexure-E8.	1	MT	36695.00	36695.00
61	<b>Supply of 50 NB GI pipes</b> (Medium grade as per IS 1239, Customer accepted) alongwith accessories like sockets, bends, tees etc. as per technical specification Annexure-E3	400	m	340.00	136000.00
62	<b>Supply of 100 NB GI pipes</b> (Medium grade as per IS 1239, Customer accepted) alongwith accessories like sockets, bends, tees etc. as per technical specification Annexure-E3	250	m	831.00	207750.00
63	<b>Supply of 75 X 12 mm GI FLAT</b> as per specification given in Annexure-E5	2500	m	354.66	886657.50
64	<b>Supply of 50 X 6 mm GI FLAT</b> as per specification given in Annexure-E5	750	m	118.22	88665.75
65	<b>Supply</b> of Equipment fixing hardware including nut, bolt and plain /spring washer as per Site requirement ( <b>Bidder's scope is to supply only. Erection is covered under erection of individual equipment</b> ) Technical specifications of Hardware to be supplied by bidder shall be as per Annexure-E4. Note - Size of hardware shall be suitable for equipments /box/JB, and same shall be decided at site.	100	kg	89.00	8900.00
66	<b>Supply</b> of customer/ BHEL approved make 0.5 HP Automatic Start/ Stop type Centrifugal pump (self priming) and accessories for sump pit	1	Nos	20467.01	20467.01
<b>Total Amount (Rs.)- Excluding GST</b>					<b>98,27,509.99</b>

**(ANNEXURE-II)**

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

**PRICE SCHEDULE FORMAT**

**SUB: RECEIPT OF EQUIPMENT/ MATERIAL AT SITE, INSPECTION, VERIFICATION, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF 400KV POTHEAD YARD OF PUNATSANGCHHU-II HYDROELECTRIC PROJECT (6X170MW), TRONGSA, BHUTAN.**

- (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 or below or at par the rates shown in the BOQ (Annexure-I). 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 of BOQ (Annexure-I).

Date:

Place

Signature of tenderer

Name & Designation of authorized person(s) with seal

### ANNEXURE-III

**SUMMARY OF PRICES FOR RECEIPT OF EQUIPMENT/ MATERIAL AT SITE, INSPECTION, VERIFICATION, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF 400KV POTHEAD YARD OF PUNATSANGCHHU-II HYDROELECTRIC PROJECT (6X170MW), TRONGSA, BHUTAN**

Sl No.	Description	Amount (Rs.)
1	Total Amount for ETC work of 400KV POTHEAD YARD OF PUNATSANGCHHU-II HYDROELECTRIC PROJECT (6X170MW), TRONGSA, BHUTAN ( <b>Annexure-I</b> )	<b>98,27,509.99</b>
2	Value of percentage above/below/at par (As indicated in Price Schedule Format, <b>Annexure-II</b> ) applicable to the total amount mentioned at sl. no. 1 above.	.....% Above/Below/ At par
3	<b>Total amount after consideration of percentage above/below/ at par.</b>	