

STATE BANK OF INDIA
LOCAL HEAD OFFICE, BHUBANESWAR

PRICE BID

SCHEDULE OF QUANTITIES FOR EXTERNAL ELECTRICAL WORKS FOR JATNI BRANCH (Br. Cd.02071)					
AT BANK'S OWN PREMISES, RBO KHURDA.					
SL. NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (in Rs.)	AMOUNT (in Rs.)
EXTERNAL ELECTRICAL AND ALLIED ELECTRICAL INSTALLATION WORKS					
Sec-A	11kV, 100kVA OUTDOOR SUB-STATION INCLUDING ALLIED SUB-STATION DP WORKS				
1	Supply, installation, testing and commissioning of 100 kVA, 11/0.4kV Aluminium Transformer BIS Energy level - II	No.	1		
2	Supply, fabricating and fitting WPB(GI) 160x152 (11Mtr. Long, 30.44KG/Mtr.) -DP	EA	2.0		
3	Supply, fabricating and fitting Top Channel(GI) 100X50X6mm, 9.56 KG/Mtr., each Channel(GI) length 3 mtr., 2 no's Channel(GI) required =(2x9.56x3)	kg	57.36		
4	Supply, fabricating and fitting Fish Plate(GI) 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 6 no's required = (6x2.36x0.280)	kg	3.97		
5	Supply, fabricating and fitting AB switch Mounting Channel(GI) 75X40X4.8mm, 7.14KG/Mtr, each Channel(GI) length 3 Mtr., 2 no's Channel(GI) required =(7.14x3x2)	kg	42.84		
6	Supply, fabricating and fitting Cantilever Support Channel(GI) 75x40x4.8 mm GI Channel(GI) (810 mm long,2 No's.) (7.14Kg./Mtr., 2 No's.) (Each 2x0.81x7.14)	kg	11.57		
7	Supply, fabricating and fitting Cantilever Support Agnle 50 x 50 x 6 mm GI (1282 mm long) (4.5Kg./Mtr., 2 No's.) (Each 2x1.282x4.5)	kg	11.54		
8	Supply, fabricating and fitting AB Switch Side Support Channel(GI) 100X50X6mm,9.56 KG/Mtr., each Channel(GI) length 0.35 mtr., 2 no's Channel(GI) required =(9.56x4x0.35)	kg	6.69		
9	Supply, fabricating and fitting Channel(GI) Support for down Pipe 75X40X 4.8mm., 7.14KG/Mtr., each Channel(GI) length 0.8 Mtr., 1 no's Channel(GI) required =(7.14x0.8x1)	kg	5.71		
10	Supply, fabricating and fitting Double Pole Belting Channel(GI) 75X40X 4.8mm., 7.14KG/Mtr., each Channel(GI) length 3 Mtr., 2 no's Channel(GI) required =(7.14x3x2)	kg	42.84		
11	Supply, fabricating and fitting 50x50x6mm.GI Bracing Angle(GI), 4.5Kg./mtr., each Angle(GI) length 3.512 mtr., 2 nos Angle(GI) required = (4.5x3.512x2)	kg	31.61		
12	Supply, fabricating and fitting Danger Plate, 2 no's.	EA	2		
13	Supply, fabricating and fitting Back Clamp for danger Plate 25X3 mm. Flat(GI), 0.59Kg/Mtr. Flat(GI) of 0.510mtr length 2 no's = (2x0.59x0.510)	kg	0.6		
14	Supply and fitting 55mm ² ACSR - PVC Insulated for Jumpering	m	15		

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (in Rs.)	AMOUNT (in Rs.)
15	Supply, fabricating and fitting H.T. Stay clamp, 50x8 mm. Flat(GI), 3.14Kg/Mtr., 0.551 Mtr. Length, 2 no's qty. required (1 Pair)	EA	2		
16	Supply, fabricating and fitting H.T. Stay set (Complete)	set	2		
17	Supply, fabricating and fitting H.T. Stay Insulator Type-C	EA	2		
18	Supply, fabricating and fitting 7/10 SWG Stay Wire 15kg /stay	kg	30		
19	Supply and installation of GI Pipe Earthing 40mm. 3 Mtr. Long	EA	2		
20	Supply and laying / fixing 50x6mm Flat(GI) for earthing, 2.36kg/mtr., (12.5 Mtr. For L.A, 3 Mtr for AB Switch Body, 2.5 mtr. For mesh formation and 2.5 mtr. For raising)= 20.5x2.36	kg	48.38		
21	Supply, fabricating and fitting GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	kg	6		
22	Supply, fabricating and fitting Back Clamp for anticlimbing device 25X3 mm. Flat(GI), 0.59Kg/Mtr. Flat(GI) of 0.510mtr length 8 no's = (8x0.59x0.510)	kg	2.41		
23	Supply and fitting Lightning Arrester(12KV,10KA) (Station Class,class-2)	EA	3		
24	Supply and fitting AB Switch (11KV,200A.3pole,50Hz)	set	1		
25	Supply and fitting H.G.Fuse (11kV, 200A, 3 pole)	set	1		
26	Supply and fitting PG clamp for 55 sq.mm ACSR conductor	No.	18		
27	Supply and fitting 11 KV pin insulator polymer	EA	3		
28	Supply and fitting H W fitting(B&S) 70KN, 3Bolt	EA	6		
29	Supply and fitting Disc insulator (B&S) 70 KN polymer	EA	6		
30	Supply and fitting Wedge Connector for 55 sq.mm conductor	EA	6		
31	Supply and fitting GI Nut , Bolt & Washer of different sizes (13.718 Kg each DP with AB Switch)	kg	13.72		
32	Supply and fixing Polycarbonate Bird Guard	EA	9		
33	Providing Black Paint(GIS Numbering & Zebra Stripping)	ltr	1		
34	Providing Yellow Colour Paint(GIS Numbering & Zebra Stripping) for Background	ltr	2		
35	Supply and laying of 11KV grade Rubber Mats as per IS 15652 of size1000mm x 2000mm	Each	2		
36	Supply and fixing of 4 nos fire bucket painted red and duly filled with MS sand complete as required. conforming to IS:2546-1974.	Each	2		
37	Supplying and fixing of shock restoration chart written in English and Hindi duly framed in glass as required.	Each	1		
38	Supplying and fixing carbon dioxide fire extinguisher type 4.5 Kg. capacity of approved make wall mounting bracket as required conforming to IS;2878/1976.	Each	6		
39	Supplying of first aid box as approved complete with standard kit as prescribed by Indian Red Cross.	Each	1		

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (in Rs.)	AMOUNT (in Rs.)
40	Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	Each	6		
41	Providing and fixing H.T. danger notice plate of 250 mm X 200 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	Each	1		
42	Supply of Hand Gloves -11KV grade	Pair	1		
43	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Set	2		
44	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.	Set	6		
45	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	Metre	6		
46	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Metre	18		
47	Providing and fixing 25 mm X5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	Metre	60		
48	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	Metre	30		
49	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	Metre	30		
50	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Metre	50		
51	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) asrequired . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (in Rs.)	AMOUNT (in Rs.)
52	4 way (4 + 12), Double door	Each	1		
53	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
54	63/100 A, 16 KA, TPMCCB	Each	1		
55	Supplying and fixing following rating, 415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
i	40A TP MCB	Each	2		
ii	63A TP MCB	Each	2		
56	Supplying of XLPE insulated, PVC sheathed 1.1 KV grade aluminium conductor armoured power cable as per IS : 7098 of following sizes:				
i	3.5 core 95 sq. mm. (2 runs)	Metre	70		
ii	3.5 core 50 sq. mm.	Metre	60		
iii	4 core 16 sq. mm.	Metre	50		
iv	4 core 10 sq. mm.	Metre	50		
57	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.				
i	Upto 35 sq. mm	Metre	100		
ii	Above 35 sq. mm and upto 95 sq. mm	Metre	130		
58	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.				
i	Upto 35 sq. mm	Metre	100		
ii	Above 35 sq. mm and upto 95 sq. mm	Metre	130		
59	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.				
i	Upto 35 sq. mm (clamped with 1mm thick saddle)	Metre	100		
ii	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	Metre	130		
60	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
i	3½ X 95 sq. mm (57mm)	Each	2		
ii	3½ X 50 sq. mm (35mm)	Each	2		
iii	4 X 16 sq. mm (28mm)	Each	4		
iv	4 X 10 sq. mm (25mm)	Each	8		

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (in Rs.)	AMOUNT (in Rs.)
61	CONTROL CABLES (COPPER) Supply, laying, testing and commissioning of following size 1.1KV grade PVC insulated armoured copper conductor cable, in built up cable trench/ already laid RCC hume pipe or on cable tray with all installation materials. The cable shall conform to IS 7098				
	12C X 2.5 Sq.mm cable	Metre	50.00		
62	Supplying and installing following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.				
	150 mm width X 50 mm depth X 1.6 mm thickness	Metre	40		
63	Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required.				
i	150 mm dia	Metre	80		
ii	300 mm dia	Metre	40		
64	Supply, Delivery, Installation, Testing and Commissioning of LT Out door Double door Distribution Boards (CPRI tested panel board) made out of 2 mm thick CR Sheet Metal duly Acid treated, Primered and painted with 2 coats of Enamel Paint of approved Shade, having hinged Door & Compartmental arrangement for each equipment and Bus Bar Chamber on the Top of the Panel running Horizontal through out its length duly Dust, Damp and Vermin proof having provision for Cable / Conduit Entry, Earthing Stud as per Specification mentioned below, duly Factory wired conforming to the relevant ISS and as per Special Conditions of Contract, making good the damages caused complete as per Direction of Consultant or Engineer-In-Charge.				
	Incoming:				
	200 Amp. 4P MCCB - 01 No.				
	4 Nos. Electrolytic Copper Bus Bar - 1 Set.				
	RYB Indicator with Selector switch - 1 Set.				
	Outgoing: 200 Amp. Extension base type Protection Kit Kat - 03 Nos.				
	The Box shall have Locking Arrangement.				
	Provision for two cables (1-main and 1-spare) must be ensured	Set	1		
	Civil & Services				
65	Fixing of complete 11KV line Complete stay set includes 1) Turn Buckle Assembly 2) Stay Rod & Stay plate 3) Stay Insulator 4) Stay Wire.5)Stay clamps with Nuts & bolts BA will do the excvation including excvation, supply of 0.5Cum cement concrete foundation 1:2:4 size (500mmx500mmx800mm) using 20mm BHG metal with all labour and material as required.	EA	2		
66	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm)	M3	0.9		

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (in Rs.)	AMOUNT (in Rs.)
67	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)	M3	0.225		
68	Construction Earthing chamber including installation of earthing pipe. Making earthing chamber including excavation, soil treatment with bentonide powder, calculation of earth-resistance, including Installation of 3Mtr GI Pipe 40mm/50mm including welding etc.	EA	2		
69	Supply and Erection of GI Fencing with Gate	M2	20		
70	Develpoing Sub-station yard including civil work for GI fencing, M.S.Grill & spreading of Hard Granite Metal, sand etc. in complete as required.	Lot	1		
71	Supply of all materials and making the plinth for 100kVA transformer with top RCC base of size 5ft x 5ft x 5ft as directed by Engineer in-charge.	Lot	1		
				Sub-Total	
Sec-B	<u>Construction of 0.005 CKM 3ph 3w 11KV OH line using 55 mm² XLPE Covered AAAC.</u>				
1	Supplying, Fabricating, Erecting with full concreting and coupling the Base portion of WPB (GI) Pole 160x152 (11Mtr. Long, 30.44KG/Mtr.)	EA	1.0		
2	Supply and fixing of Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each Channel(GI) length 1.2 mtr., 4 no's Channel(GI) required =(4x9.56x1.2)	kg	45.9		
3	Supply and fixing of Fish Plate(GI) 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required = (16x2.36x0.280)	kg	10.6		
4	Supply and fixing of Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each Channel(GI) length 0.306 mtr., 4 no's Channel(GI) required =(4x9.56x0.306)	kg	11.7		
5	Supply and fixing of Danger Plate, 1 no's.	EA	1.0		
6	Supply and fixing of Back Clamp for danger Plate 25X3 mm. Flat(GI), 0.59Kg/Mtr. Flat(GI) of 0.510mtr length 1no's = (1x0.59x0.510)	kg	0.3		
7	Supply and fixing GI barbed wire anticlimbing device 3 Kg. Per support	kg	3.0		
8	Supply and fixing of Back Clamp for anticlimbing device 25X3 mm. Flat(GI), 0.59Kg/Mtr. Flat(GI) of 0.510mtr length 4 no's = (4x0.59x0.510)	kg	1.2		
9	Supply and installation of 11 KV pin insulator polymer	EA	5.0		
10	Supply and fixing H W fitting(B&S) 70KN, 3Bolt	EA	9.0		
11	Supply and installation of Disc insulator (B&S) 70 KN polymer	EA	9.0		
12	Supply and fixing Earthing of Support (Coil Type)	EA	1.0		
13	Supply and laying No-8 GI wire (Dia 4.6mm) 0.131 KG/ Mtr.- 2 Mtr. For connecting pole with Coil earthing	kg	0.3		
14	Supply and fixing of NON METALLIC TIES -11KV 55SQMM CVRD AAAC	EA	5.0		
15	Suppy and fixing of IPC for 55 sq.mm AAA conductor (For covered conductor)-11kV	EA	3.0		
16	Supply and fixing of Wedge Connector for 80 sqmm conductor	EA	6.0		

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (in Rs.)	AMOUNT (in Rs.)
17	Supply and fixing of GI Nut , Bolt & Washer of different sizes (7.433 Kg each Cut Pole)	kg	7.4		
18	Supply and pasting Black Paint (GIS Numbering & Zebra Stripping)	ltr	0.5		
19	Supply and pasting Yellow Colour Paint (GIS Numbering & Zebra Stripping) for Background	ltr	2.0		
	<u>Civil & Services</u>				
20	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	M3	0.5		
21	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	M3	0.1		
	<u>Materials for 11 KV Pin Points with WPB</u>				
22	55 SQ.MM. AAAC XLPE Covered Conductor (span length including HTMU DP to SS DP)	m	45.0		
				Sub-Total	
Sec-C	<u>Construction of 1 No. HTMU DP with AB Switch & LA using 11 Mtr. WPB Pole.</u>				
1	Supply, fabrication and fitting WPB(GI) 160x152 (11Mtr. Long, 30.44KG/Mtr.) -DP	EA	2.0		
2	Supply, fabrication and fitting Top Channel(GI) 100X50X6mm, 9.56 KG/Mtr., each Channel(GI) length 3 mtr., 2 no's Channel(GI) required =(2x9.56x3)	kg	57.36		
3	Supply, fabrication and fitting Fish Plate(GI) 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 6 no's required = (6x2.36x0.280)	kg	3.97		
4	Supply, fabrication and fitting AB switch Mounting Channel(GI) 75X40X4.8mm, 7.14KG/Mtr, each Channel(GI) length 3 Mtr., 2 no's Channel(GI) required =(7.14x3x2)	kg	42.84		
5	Supply, fabrication and fitting HT MU Mounting Channel(GI) 100X50X6mm, 9.56KG/Mtr, each Channel(GI) length 3 Mtr., 2 no's Channel(GI) required =(9.56x3x2)	kg	57.36		
6	Supply, fabrication and fitting Cantilever Support Channel(GI) 75x40x4.8 mm GI Channel(GI) (810 mm long,2 No's.) (7.14Kg./Mtr., 2 No's.) (Each 2x0.81x7.14)	kg	11.57		
7	Supply, fabrication and fitting Angle(GI) for Cantilever arrangement for HT MU 50 x 50 x 6 - 1282 mm.each 2 nos.(4.5 K.g. per mtr.)	kg	11.54		
8	Supply, fabrication and fitting MU and AB Switch Side Support Channel(GI) 100X50X6mm,9.56 KG/Mtr., each Channel(GI) length 0.35 mtr., 4 no's Channel(GI) required =(9.56x4x0.35)	kg	13.38		
9	Supply, fabrication and fitting Channel(GI) Support for down Pipe 75X40X 4.8mm., 7.14KG/Mtr., each Channel(GI) length 0.8 Mtr., 1 no's Channel(GI) required =(7.14x0.8x1)	kg	5.71		
10	Supply, fabrication and fitting Double Pole Belting Channel(GI) 75X40X 4.8mm., 7.14KG/Mtr., each Channel(GI) length 3 Mtr., 2 no's Channel(GI) required =(7.14x3x2)	kg	42.84		

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11	Supply, fabrication and fitting 50x50x6mm.GI Bracing Angle(GI), 4.5Kg./mtr., each Angle(GI) length 3.512 mtr., 2 nos Angle(GI) required = (4.5x3.512x2)	kg	31.61		
12	Supply and fixing Danger Plate, 2 no's.	EA	2		
13	Supply, fabrication and fitting Back Clamp for danger Plate 25X3 mm. Flat(GI), 0.59Kg/Mtr. Flat(GI) of 0.510mtr length 2 no's = (2x0.59x0.510)	kg	0.6		
14	Supply and fixing 55mm ² ACSR - PVC Insulated for Jumpering	m	15		
15	Supply, fabrication and fitting H.T. Stay clamp, 50x8 mm. Flat(GI), 3.14Kg/Mtr., 0.551 Mtr. Length, 2 no's qty. required (1 Pair)	EA	2		
16	Supply, fabrication and fitting H.T. Stay set (Complete)	set	2		
17	Supply, fabrication and fitting H.T. Stay Insulator Type-C	EA	2		
18	Supply, fabrication and fitting 7/10 SWG Stay Wire 15kg /stay	kg	30		
19	Providing Gi Pipe Earthing 40mm. 3 Mtr. Long	EA	2		
20	Supply and fitting or laying 50x6mm Flat(GI) for earthing, 2.36kg/mtr., (12.5 Mtr. For L.A, 3 Mtr for AB Switch Body, 2.5 mtr. For mesh formation and 2.5 mtr. For raising)= 20.5x2.36	kg	48.38		
21	Supply, fabrication and fitting GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	kg	6		
22	Supply, fabrication and fitting Back Clamp for anticlimbing device 25X3 mm. Flat(GI), 0.59Kg/Mtr. Flat(GI) of 0.510mtr length 8 no's = (8x0.59x0.510)	kg	2.41		
23	Supply, fabrication and fitting Lightning Arrester(12KV,10KA) (Station Class,class-2)	EA	3		
24	Supply, fabrication and fitting AB Switch (11KV,200A.3pole,50Hz)	set	1		
25	Supply and fitting 11 KV pin insulator polymer	EA	3		
26	Supply and fixing H W fitting(B&S) 70KN, 3Bolt	EA	6		
27	Supply and fixing Disc insulator (B&S) 70 KN polymer	EA	6		
28	Supply and fixing Wedge connector for 55sq.mm Conductor	EA	6		
29	supply and fixing GI Nut , Bolt & Washer of different sizes (13.718 Kg each DP with AB Switch)	kg	13.72		
30	Supply and fixing POLYCARBONATE BIRD GUARD	EA	9		
31	Providing Black Paint(GIS Numbering & Zebra Stripping)	ltr	1		
32	Providing Yellow Colour Paint(GIS Numbering & Zebra Stripping) for Background	ltr	2		
	<u>Civil & Services</u>				

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (in Rs.)	AMOUNT (in Rs.)
33	Fixing of complete 11KV line Complete stay set includes 1) Turn Buckle Assembly 2) Stay Rod & Stay plate 3) Stay Insulator 4) Stay Wire.5)Stay clamps with Nuts & bolts BA will do the excvaton including excvaton, supply of 0.5Cum cement concrete foundation 1:2:4 size (500mmx500mmx800mm) using 20mm BHG metal with all labour and material as required.	EA	2		
34	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm)	M3	0.9		
35	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)	M3	0.225		
36	Construction Earthing chamber including installation of earthing pipe.Making earthing chamber including excavation , soil treatment with bentonide powder , calculation of earthresistance, including Installation of 3Mtr GI Pipe 40mm/50mm including welding etc.	EA	2		
37	Supply and Erection of GI Fencing with Gate	M2	20		
				Sub-Total	
Sec-D	AREA LIGHTING				
1	Supply, erection, Testing & Commissioning of garden light pole of 3.05M high (above ground), suitable for installation of post top lantern light fitting, designed galvanised pole shall be structurally sound, engineered to withstand adverse conditions, pole design parameters vary depending on the type of bracket and loading factor, all pole sections are welded using special v-groove technique by certified welders using high end MIG / TIG welding processes, built-in control box with service door including lock and safety chain consisting suitable connector for termination of aluminium cable upto 35 sq. mm (2 terminations: 1 Incoming and 1 Outgoing) including necessary fixing arrangement, the control gear tray is prewired with suitable rating of MCB, terminal connectors for loop-in loop-out arrangement, Finish : Coated with epoxy zinc phosphate primer and finished using environmentally stable polyurethane based paint.	Each	24		
	Installation : Surface mounted with min. 2mm thick GI base plate and fitted on a pre-formed foundation, J type nut-bolts, 2nos. 50mm dia heavy duty GI pipes of 1.5M long for incoming and outgoing of cables, including earthing arrangement, excavation & back filling bedding, PCC foundation 1:2:4, coping, PCC Pedestal. The wiring from junction box to light fixture shall be carried out with 3C x 2.5sg.mm multistranded copper flexible cable. The pole similar to (Make : K-LITE Cat No KP-6005 - (Ht. 3050mm & dia. 60mm)/ equivalent & the pole shall be fixed with 33W LED Post Top Light fitting integral type with control gear similar to Make : Philips Cat no BGP300 LED40 757 PSU PC IN S1 and fixing accessories complete as required.				
2	Supply, erection, testing and commissioning of LED Flood Light Fixture including Lamp, controlgear etc. complete as required. (Make : Philips Cat No BVP120 LED 70 CW NB FG S1 PSU GR)/Lighting Solution	Each	24		

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (in Rs.)	AMOUNT (in Rs.)
3	Supply and laying of 1100Volts PVC insulated 10sq.mm. XLPE armoured cable for area lighting and complete the same in all respects as per the direction of Engineer-In-charge.	Rmt	230		
				SUB-TOTAL	
Sec-E	PUMPS AND ALLIED ACCESSORIES				
	Procurement, supply, install and commission electrically operated monoblock type pump sets, with all protection sensors viz. temperature, oil leakage (if required), over load/under voltage tripping, electronic level sensing device for 3 level indication in UGR and auto cut off for dry run of pumps. (Should be with all necessary valves like NRV, Strainer & Butterfly valve). Necessary motor starter (DOL with suitable control circuit and volt/amp meter etc.), suitable cabling/wiring with PVC/Steel conduit and allied electrical works including interfacing with the distribution board/main panel board etc shall be within the scope of vendor/contractor. Details of pumps given below.				
1	Raw water pump				
	Cost of all materials to be included in the quoted rate and to be inclusive of all transportation, handling, supply of all other appurtenances and accessories, fasteners, miscellaneous items, labour for erection, trial run and commissioning + OH & P. No extra item shall be entertained.				
	Open Well monoblock Type pumps with Bronze impeller complete with common base plate coupling and guard, appropriate motor and delivering 50 lpm of water @ 35 mwc head Make Grundfoss / IIT / AMSTRONG / KIRLOSKAR. WITH TEFC, EE-1 MOTOR, strainer.(Should be with all necessary valves like NRV, Strainer & Butterfly valve)				
	(1W + 1S for Raw Water Pump)	2	Nos		
2	RWH Pump				
	Open Well monoblock Type pumps with Bronze impeller complete with common base plate coupling and guard, appropriate motor and delivering 50 lpm of water @ 35 mwc head 1W+1S - Make Grundfoss / IIT / AMSTRONG / KIRLOSKAR. WITH TEFC, EE-1 MOTOR	2	Nos		
3	De-watering Pump				
	Open Well monoblock Type with Partial handing capacity of 40mm - 1.5 HP pumps with Bronze impeller complete with common base plate coupling and guard, appropriate motor and delivering 50 Lpm of water @ 12 mwc head - Make Grundfoss / IIT / AMSTRONG / KIRLOSKAR. WITH TEFC, EE-1 MOTOR	2	Nos		
				SUB-TOTAL	
Sec-F	FOUNTAIN AND ALLIED WORKS				
	Nozzles Make: IMPS or equivalent as per the direction of engineer-in-charge				

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (in Rs.)	AMOUNT (in Rs.)
1	Supplying of 2" Stainless Steel 304 16 gauge pipe bending in 8 ft diameter with argon welding of each 5" & 1/4" nozzle connection point with proper stand fixing on floor for outer circle	RFT	25		
2	Supplying of 2" Stainless Steel 304 16 gauge pipe bending in 4 ft diameter with argon welding of each 8" & 1/2" nozzle connection point with proper stand fixing on floor for Inner circle	RFT	13		
3	Supplying of Center cluster jet with 1.5" connection	No.	1		
4	Supplying of adjustable Brass Nozzle with chrome plated 60 Nos in 8 ft ring	No.	60		
5	Supplying of adjustable Brass Nozzle with chrome plated 25 Nos. In 4 ft Ring	No.	25		
	Underwater Light Make: Aqurius or equivalent as per the direction of engineer-in-charge				
6	Supplying of Luminaries comprise of nos. 12V 3watt X 3 LED 9W waterproof fixed Ring lights Make Aquarius Overall height of light body shall be 150 mm dia . Body- SS	No.	22		
	Digital programmable Lighting controller Make: Aqurius or equivalent as per the direction of engineer-in-charge				
7	supplying of Microproscing based microprocessor programmable Data sender Colours' changing controller for 9w lights Model-Aquarius /SQ23v DC	No.	1		
	Open well Submersible pump				
8	Open well submersible 2 HP Single phase pump suitable for fountain with pump suction covered large area mash filter. filter body of GI with filter PVC stainer (Starter included) Make- kirlosker/Lubi/Texmo		1		
	Plumbing				
9	Supply and fixing of 50,40,80 mm dia PVC / uPVC pipe with rated pressure of 6kg/80 sh for with all accessories like and including cutting jointing complete as required.	LS	1		
	Electrical				
10	Electrical works such as for pump Submersible cabling flat flexible copper conductor with double insulated submersible cabling,0.5/1sq.mm 4core cable wire with water proof jointing ,2.5 / 4 sq.mm wire with water proof jointing, and PVC conducting make-Polycab	LS	1		
				SUB-TOTAL	
Sec-G	LIGHTNING PROTECTION AND ALLIED WORKS				
1	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.	Each	4		

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (in Rs.)	AMOUNT (in Rs.)
2	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or on surface of wall for lightning conductor complete as required.(For horizontal run)	Metre	120		
3	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or on surface of wall for lightning conductor complete as required. (For vertical run)	Metre	60		
4	Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 Nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.	Each	4		
5	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.	Set	4		
				SUB-TOTAL	
	Summary:				
Sec-A	11kV, 100kVA OUTDOOR SUB-STATION INCLUDING ALLIED SUB-STATION DP WORKS			0.00	
Sec-B	Construction of 0.005 CKM 3ph 3w 11KV OH line using 55 mm2 XLPE Covered AAAC.			0.00	
Sec-C	Construction of 1 No. HTMU DP with AB Switch & LA using 11 Mtr. WPB Pole.			0.00	
Sec-D	AREA LIGHTING			0.00	
Sec-E	PUMPS AND ALLIED ACCESSORIES			0.00	
Sec-F	FOUNTAIN AND ALLIED WORKS			0.00	
Sec-G	LIGHTNING PROTECTION AND ALLIED WORKS			0.00	
	GRAND TOTAL (excl. GST. GST will be extra as applicable)			0.00	
Note:	<p>1. The L-1 bidder should obtain prior approval from the Bank for the above mentioned works before placing the order. L1 bidder should ensure to get the design/SLD of the Fountain/SS before placing the order.</p> <p>2. The L-1 bidder should ensure the HTMU DP structure, Sub-Station DP structure, Transformer and other allied Sub-Station equipment make, which will be inspected by the TPCODL, need to be in-line with the TPCODL make, inorder not to have any hindrances during charging of the said Sub-Station and allied electrical works.</p>				