## THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD. JANAPATH, BHOINAGAR, BHUBANESWAR - 22

[Electrical Division]

Ph: 0674-2541545, 2542921, Fax: 0674-2541543

E-mail:-pmelectricalophwc2021@gmail.com, Website: www.ophwc.nic.in

## PRICE BID FOR THE WORK UNDER SL. NO :- 01 AS PER IFB

NAME OF THE WORK :- EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 3 NOS. RESIDENTIAL BLOCK OF 28-F TYPE QUARTERS AT RESERVE POLICE LINE, UPD, BHUBANESWAR IN THE DISTRICT OF KHURDA.

BID REF NO :- 100/PM/ELECT/OPHWC/2023-24

NAME & ADDRESS OF THE FIRM

PART-A-Construction of 11 kv line using 3Cx400 sq. mm of Length 20 Mtr.

Installation of 11 KV 4 way RMU-1 No. for tapping

Installation of 11 KV 4 way RMU-1 No. for tapping  SCHEDULE OF WORKS								
				Estima	ted Cost in Rs.			
Sl. No.	Description of work	Unit	Qty.	RATE IN RS.	AMOUNT IN RS.			
Supply Port	ion							
1	Supply of materials for 11kV, 3Core, 400sqmm, XLPE							
1	insulation armoured UG cable with accessories							
a	Length of 11kV 3C, 400sqmm cable (open trench)	Mtr.	20					
	Supply of 11kV, 3Core, 400sqmm, XLPE insulation armoured							
1.1	UG cable (SC rating of cable in kA- 37.7kA and SC rating of	Mtr.	20.00	2,265.00	45,300.00			
	Armour in kA- 15kA)							
	Supply of <b>Straight through jointing kits</b> Heat Shrinkable type							
1.2	suitable for 11kV, 3Core, 400 sqmm, Aluminium UG cable for	Set	2	32,912.10	65,824.20			
	3Core (Set)							
	Supply of Indoor termination kits Heat Shrinkable type		et 2 32,9 et 2 12,4 er. 14.00 7 s. 1 ss. 1 9,36,3					
1.3	suitable for 11kV, 3Core, 400 sqmm, HT UG cable for 3Core	Set	2	12,456.60	24,913.20			
	(Set)							
1.4	Supply of HDPE PE 80-PN8 pipe of 160mm diameter (for	Mtr.	14.00	775.40	10,855.60			
	400sqmm HT cable laying)			7,72110				
2	Supply of 11kV RMU							
<u> </u>	No. of 11kV 4Way RMU (LLVV)	nos.	1					
а	Supply of 11kV RMU 4 Way, 630A (LLVV) with FTRU &	nos.						
2.1	AUXPT RMU 11 KV 4 way LLVV(2 iso+2 BKR)-	Nos.	1	9,36,305.84	9,36,305.84			
2.1	RMU+FTRU+Aux PT	1103.	1	9,30,303.64	7,50,505.04			
3	Earthing							
	Earthing Conductor: <b>50X6 mm</b> (2.4kg./mtr.) <b>GI Flat</b> for							
3.1	equipment, structure etc.)	kg	13.20	97.50	1,287.00			
2.2		3.7		1.265.00	2.720.00			
3.2	Pipe Earthing 40mm. GI Pipe	Nos.	2	1,365.00	2,730.00			
	Sub Total (Supply Portion) (in R	Rs.)			10,87,215.84			
Erection Po	rtion							
	Laying, Commissioning, Testing of 11kV, 3core, 400sqmm,							
1	aluminium, XLPE insulation armoured (extruded type) UG							
	cable by open trench method and HDD method							
1.1	Laying, Commissioning, Testing of 11kV, 3core, 400sqmm,							
	aluminium, XLPE insulation armoured (extruded type) UG	Mtr.	20.00	94.50	1,890.00			
	cable by <b>open trench method</b> .				,			
	Erection of Straight through jointing kits Heat Shrinkable							
1.2	type suitable for 11kV, 3Core, 400sqmm, aluminium UG cable	Set	2	2,400.00	4,800.00			
	kits for 3core (set)	"	_	,	,			
	- ()							

a	Length of 11kV 3C, 120 sqmm cable (open trench)	Mtr.	20		
1	Supply of materials for 11kV, 3Core, 120 sqmm, XLPE insulation armoured UG cable with accessories				
Supply Portion			1	ı	
	f 11 KV 3 way RMU-1 No. for tapping				
	nstruction of 11 ky line using 3Cx120 sq. mm of Length 105 M	tr with	1 Run sp	are.	
L	Total Estimated Capital Cost i.e. (J-K)				13,83,335.28
K	Deduction of sal vage value(detail as per estimate)				6,582.40
J	Total Cost (H+I)				13,89,917.68
I	Sub Total (Erection Portion + Civil Portion)				1,52,343.90
Н	Total (C+D+E+F+G)				12,37,573.78
G	Erection Charges @ 10% of earthing items				132.56
F	Transportation @ 7.5% of C				83,987.42
Е	Tools & Plants Charges @ 2% of C (considered for earthing iter	ns)			26.51
D	Contingency @ 3 % of C				33,594.97
C	Sub Total (A+B)				11,19,832.32
В	Stock, Storage & Insurance @ 3 % of A				32,616.48
A	Sub Total (Supply Portion)				10,87,215.84
	Sub Total (Civil Portion) (in Rs.)				1,12,013.30
5	Supply and Erection of Cable Route Marker along the cable route at an interval of 30mtrs with civil works	Nos.	1	1,012.00	1,012.00
4	soil treatment with bentonide powder, calculation of earth resistance, including Installation of 3Mtr GI Pipe 40mm/50mm including welding of GI flat around pipe.	Set	2	3,700.00	7,400.00
	Construction Earthing chamber including installation of earthing pipe. Making earthing chamber including excavation,				
3	Supply of GI Fencing with Gate around each RMU	sqmtr	20	3,600.00	72,000.00
2.1	of all materials Prefabricated RCC foundation of 11kV RMU	Nos.	1	23,145.30	23,145.30
2	Civil works for Prefabricated RCC foundation with supply				
1.2	Back filling with excavated soil outside and above the trench	Cum	7	202.00	1,414.00
1.1.b	Earth work excavation of hard rock	Cum	2.1	1,720.00	3,612.00
1.1.a	Earth work excavation of soil	Cum	4.9	700.00	3,430.00
1.1	For UG Cable Trench	Mtr	7		
1	Civil works with supply of all materials like cement, MS tor rod, brick, coarse & fine aggregates and labour, T&P, etc				
Civil Portion					
		Í	I		
	Sub Total (Erection Portion) (in 1	Rs.)			40,330.60
3.1	Services of FRTU Panel, Communication and Other Supplied System	EA	1.0	16,000.00	16,000.00
3	FRTU and OFC for RMU SCADA Automation				
2.1	RMU Erection of 11kV RMU 4 Way, 2 Iso & 2 Brk 630A (LLVV)	Nos.	1	9,639.00	9,639.00
2	trench Erection, Commissioning, Wiring and Testing of 11kV				,
1.4	for 3core (set) Laying of <b>160mm dia</b> PE 80-PN8, <b>HDPE pipe</b> inside open	Mtr.	14.00	300.00	4,200.00
1.3	suitable for 11kV, 3Core, 400sqmm, aluminium UG cable kits	Set	2	1,900.80	3,801.60

1.1	Supply of 11kV, 3Core, 120sqmm, XLPE insulation armoured UG cable (SC rating of cable in kA- 11.3kA and SC rating of Armour in kA- 12kA)	Mtr.	210.00	1,078.00	2,26,380.00
1.2	Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 120 sqmm, HT UG cable for 3Core (Set)	Set	4	11,056.50	44,226.00
1.3	Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 120 sqmm, HT UG cable for 3Core (Set)	Set	4	15,282.80	61,131.20
1.4	Supply of <b>HDPE</b> PE 80-PN8 pipe of <b>160mm</b> diameter (for 400sqmm HT cable laying)		178.00	775.40	1,38,021.20
2	Supply of 11kV RMU				
- 2 a	No. of 11kV 3Way RMU (LLVV)	nos.	1		
2.1	Supply of 11kV RMU 3 Way, 630A LLV(2 iso+1 BKR)+Aux PT		1	5,35,000.00	5,35,000.00
3	Earthing				
3.1	Earthing Conductor: 50X6 mm (2.4kg./mtr.) GI Flat for equipment, structure etc.)		13.20	97.50	1,287.00
3.2	Pipe Earthing 40mm. GI Pipe	Nos.	2	1,365.00	2,730.00
	Sub Total (Supply Portion) (in R	(s)			10,08,775.40
					10,00,772110
Erection Port	ion				
1	Laying, Commissioning, Testing of 11kV, 3core, 120sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method				
1.1	Laying, Commissioning, Testing of 11kV, 3core, 120sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.		210.00	94.50	19,845.00
1.2	Erection of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 120sqmm, aluminium UG cable kits for 3core (set)		4	1,900.80	7,603.20
1.3	Erection of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 120sqmm, aluminium UG cable kits for 3core (set)	Set	4	1,900.80	7,603.20
1.4	Laying of <b>160mm dia</b> PE 80-PN8, <b>HDPE pipe</b> inside open trench.	Mtr.	178.00	300.00	53,400.00
2	Erection, Commissioning, Wiring and Testing of 11kV RMU				
2.1	Erection of 11kV RMU 3 Way, 2 Iso & 2 Brk 630A (LLVV)	Nos.	1	9,639.00	9,639.00
	Sub Total (Erection Portion) (in l	Rs.)			98,090.40
Civil Portion					
Sl. No.	Description of items	Unit	Quantit v	Rate (in Rs.)	Amount (in Rs.)
1	Civil works with supply of all materials like cement, MS tor rod, brick, coarse & fine aggregates and labour, T&P, etc for UG Cable Trench				
1.1	Earth work excavation of soil (1mtr. width X 1mtr. depth) Route Length	Mtr	90		
1.1.a	Earth work excavation of soil	Cum	63	700.00	44,100.00
1.1.b	Earth work excavation of hard rock	Cum	27	1,720.00	46,440.00
1.2	Back filling with excavated soil outside and above the trench	Cum	90	202.00	18,180.00
2	Civil works for Prefabricated RCC foundation with supply of all materials				
2.1	Prefabricated RCC foundation of 11kV RMU	Nos.	1	23,145.30	23,145.30
3	Supply of GI Fencing with Gate around each RMU	sqmtr	20	3,600.00	72,000.00

D Contingency @ 3 % of C  E Tools & Plants Charges @ 2% of C (considered for earthing items)  F Transportation @ .7.5% of C  G Erection Charges @ 10% of earthing items  H Total (C+D+E+F+G)  I Sub Total (Erection Portion + Civil Portion)  J Total Cost (H+I)  PART-C-Construction of 11 kv line using 3Cx95 sq. mm of Length 65 Mtr with 1 Run spare.  Supply Portion  1 Supply of materials for 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable with accessories  a Length of 11kV 3C.95sqmm cable (open trench)  Luging of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Dutdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Dutdoor termination kits Heat Shrinkable type  1.3 suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of HDPE PE 80-PN8 pipe of 160mm diameter (for 400sqmm HT cable laying)  Sub Total (Supply Portion) (in Rs.)  Erection Portion  Sl. No. Description of items  Unit Quantit y (in Rs.)  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Erection of Straight through jointing kits Heat Shrinkable type suitable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits Set 4 1,900.80									
Supply and crection of GI Pipe of dia. 150mm, Class-B (8Mtr.)   Mtr   32   1,463.40	4	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 of GI flat	Set	2	3,700.00	7,400.00			
Sub Total (Civil Portion) (in Rs.)  A Sub Total (Supply Portion)  B Stock, Storage & Insurance @ 3 % of A  C Sub Total (A+B)  D Contingency @ 3 % of C  E Tools & Plants Charges @ 2% of C (considered for earthing items)  F Transportation @ 7.5% of C  G Erection Charges @ 10% of earthing items  H Total (C+D+E+F+G)  I Sub Total (Erection Portion + Civil Portion)  J Total Cost (H+1)  PART-C-Construction of I1 kv line using 3Cx95 sq. mm of Length 65 Mtr with 1 Run spare.  Supply Portion  I Supply of materials for 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable with accessories  a Length of 11kV 3Cx, 95sqmm cable (open trench)  Mtr. 65  Supply of 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable of 3 Core (Set)  Log Cable (Sc Tating of cable in kA- 9kA)  1.2 Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3 Core (Set)  Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3 Core (Set)  Supply of Dutdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Dutdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Dutdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Dutdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Dutdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Laying, Commissioning, Testing of 11kV, 3Core, 95 sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and IIDD method  Laying, Commissioning, Testing of 11kV, 3core, 95 sqmm, Aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and IIDD method  Erection of Straight through jointing kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, aluminium UG cable	5		Mtr	32	1,463.40	46,828.80			
Sub Total (Supply Portion)   It	5		Nos.	4	1,012.00	4,048.00			
B Stock, Storage & Insurance @ 3 % of A  C Sub Total (A+B)  D Contingency @ 3 % of C  E Tools & Plants Charges @ 2% of C (considered for earthing items)  F Transportation @ 7.5% of C  G Erection Charges @ 10% of earthing items  H Total (C+D+E+F+G)  I Sub Total (Erection Portion + Civil Portion)  J Total Cost (H+1)  PART-C-Construction of 11 kv line using 3Cx95 sq. mm of Length 65 Mtr with 1 Run spare.  Supply Portion  1 Supply of materials for 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable with accessories  a Length of 11kV 3C, 95sqmm cable (open trench)  Supply of 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable in kA-9kA and SC rating of Armour in kA-9kA)  1.2 Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  1.4 Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of HDPE PE 80-PN8 pipe of 160mm diameter (for 400sqmm HT cable laying)  Sub Total (Supply Portion) (in Rs.)  Erection Portion  Sl. No. Description of items  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits Set 4 1,900.80									
B Stock, Storage & Insurance @ 3 % of A  C Sub Total (A+B)  D Contingency @ 3 % of C  E Tools & Plants Charges @ 2% of C (considered for earthing items)  F Transportation @ 7.5% of C  G Erection Charges @ 10% of carthing items  H Total (C+D+E+F+G)  I Sub Total (Erection Portion + Civil Portion)  J Total Cost (H+1)  PART-C-Construction of 11 kv line using 3Cx95 sq. mm of Length 65 Mtr with 1 Run spare.  Supply Portion  1 Supply of materials for 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable with accessories  a Length of 11kV 3C, 95sqmm, XLPE insulation armoured  UG cable (SC rating of cable in kA-9kA and SC rating of Armour in kA-9kA)  1.2 Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Outdoor termination kits Heat Shrinkable type  1.3 Supply of Outdoor termination kits Heat Shrinkable type  Supply of HDPE PE 80-PN8 pipe of 160mm diameter (for 400sqmm HT cable laying)  Sub Total (Supply Portion) (in Rs.)  Erection Portion  St. No. Description of items  Unit Quantit y  Rate (in Rs.)  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable type suitable for 11kV, 3Core, 95sqmm, aluminium (XLPE insulation armoured (extruded type) UG cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits Set 4 1,900.80									
C Sub Total (A+B)  D Contingency @ 3 % of C  E Tools & Plants Charges @ 2% of C (considered for earthing items)  F Transportation @ 7.5% of C  G Erection Charges @ 10% of earthing items  H Total (C+D+E+F+G)  1 Sub Total (Erection Portion + Civil Portion)  J Total Cost (H+I)  PART-C-Construction of 11 kv line using 3Cx95 sq. mm of Length 65 Mtr with 1 Run spare.  Supply Portion  1 Supply of materials for 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable with accessories  a Length of 11kV 3C, 95sqmm cable (open trench)  Supply of 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable in kA-9kA and SC rating of Armour in kA-9kA)  1.2 Supply of 11kV, 3Core, 95sqmm, MIP insulation armoured UG cable (SC rating of cable in kA-9kA and SC rating of Armour in kA-9kA)  1.2 Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  1.4 Supply of HDPE PE 80-PN8 pipe of 160mm diameter (for 400sqmm HT cable laying)  Sub Total (Supply Portion) (in Rs.)  Erection Portion  Sl. No. Description of items  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits Set 4 1,900.80	A								
D Contingency @ 3 % of C  E Tools & Plants Charges @ 2% of C (considered for earthing items)  F Transportation @ .5% of C  G Erection Charges @ 10% of earthing items  H Total (C+D+E+F+G)  I Sub Total (Erection Portion + Civil Portion)  J Total Cost (II+I)  PART-C-Construction of 11 kv line using 3Cx95 sq. mm of Length 65 Mtr with 1 Run spare.  Supply Portion  1 Supply of materials for 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable with accessories  a Length of 11kV 3C, 95sqmm cable (open trench)  Luging of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Outdoor termination kits Heat Shrinkable type  1.3 suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Dutdoor termination kits Heat Shrinkable type  1.3 suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Dutdoor termination kits Heat Shrinkable type  1.3 suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Dutdoor termination kits Heat Shrinkable type  1.4 Supply of HDPE PE 80-PN8 pipe of 160mm diameter (for 400sqmm HT cable laying)  Sub Total (Supply Portion) (in Rs.)  Erection Portion  Sl. No. Description of items  Unit Quantit y (in Rs.)  Erection Portion  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium UG cable kits Set 4 1,900.80	В	-				30,263.26			
E Tools & Plants Charges @ 2% of C (considered for earthing items)  F Transportation @ 7.5% of C  G Erection Charges @ 10% of earthing items  H Total (C+D+E+F+G)	С					10,39,038.66			
F Transportation @ 7.5% of C G Erection Charges @ 10% of earthing items H Total (C+D+E+F+G) I Sub Total (Erection Portion + Civil Portion) J Total Cost (H+I) PART-C-Construction of 11 kv line using 3Cx95 sq. mm of Length 65 Mtr with 1 Run spare.  Supply Portion  1 Supply of materials for 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable with accessories a Length of 11kV 3C, 95sqmm cable (open trench) Mtr. 65 Supply of 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable (SC rating of cable in kA- 9kA and SC rating of Armour in kA- 9kA) 1.2 Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set) Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Outdoor termination kits Heat Shrinkable type 1.3 suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of HDPE PE 80-PN8 pipe of 160mm diameter (for Mtr. 98.00 357.60  Supply of HDPE PE 80-PN8 pipe of 160mm diameter (for Mtr. 98.00 357.60  Supply of HDPE PE So-PN8 pipe of 160mm diameter (for Mtr. 98.00 357.60  Supply of HDPE PE So-PN8 pipe of 160mm diameter (for Mtr. 98.00 357.60  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Erection of Straight through jointing kits Heat Shrinkable type suitable for 11kV, 3core, 95sqmm, aluminium UG cable kits Set 4 1,900.80	D	Contingency @ 3 % of C				31,171.16			
G Erection Charges @ 10% of earthing items  H Total (C+D+E+F+G) 11  I Sub Total (Erection Portion + Civil Portion) 2  J Total Cost (H+I) 15  PART-C-Construction of 11 kv line using 3Cx95 sq. mm of Length 65 Mtr with 1 Run spare.  Supply Portion 16  1 Supply of materials for 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable with accessories a Length of 11kV 3C, 95sqmm cable (open trench) Mtr. 65  Supply of 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable in kA- 9kA and SC rating of Armour in kA- 9kA)  1.2 Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set) 5  Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set) 6  Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set) 7  Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set) 8  Supply of HDPE PE 80-PN8 pipe of 160mm diameter (for Mtr. 98.00 357.60 400 sqmm HT cable laying) 7  Sub Total (Supply Portion) (in Rs.) 2  Erection Portion 5  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method 8  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method. 8  Erection of Straight through jointing kits Heat Shrinkable type 8  suitable for 11kV, 3core, 95sqmm, aluminium UG cable kits 8et 4 1,900.80	Е		ns)			26.51			
H Total (C+D+E+F+G) 11 Sub Total (Erection Portion + Civil Portion) 12 J Total Cost (H+I) 15 PART-C-Construction of 11 kv line using 3Cx95 sq. mm of Length 65 Mtr with 1 Run spare.  Supply Portion 1 1	F	Transportation @ 7.5% of C				77,927.90			
I Sub Total (Erection Portion + Civil Portion)  J Total Cost (H+I)  PART-C-Construction of 11 kv line using 3Cx95 sq. mm of Length 65 Mtr with 1 Run spare.  Supply Portion  I Supply of materials for 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable with accessories  a Length of 11kV 3C, 95sqmm cable (open trench)  Supply of 11kV, 3Core, 95sqmm, XLPE insulation armoured 1.1 UG cable (SC rating of cable in kA- 9kA and SC rating of Armour in kA- 9kA)  1.2 Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of HDPE PE 80-PN8 pipe of 160mm diameter (for 400sqmm HT cable laying)  Sub Total (Supply Portion) (in Rs.)  Erection Portion  Sl. No. Description of items  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable for 11kV, 3core, 95sqmm, aluminium UG cable kits Set 4 1,900.80	G	Erection Charges @ 10% of earthing items				132.56			
J Total Cost (H+I) PART-C-Construction of 11 kv line using 3Cx95 sq. mm of Length 65 Mtr with 1 Run spare.  Supply Portion  1 Supply of materials for 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable with accessories  a Length of 11kV 3C, 95sqmm cable (open trench) Mtr. 65  Supply of 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable (SC rating of cable in kA- 9kA and SC rating of Armour in kA- 9kA)  1.2 Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of HDPE PE 80-PN8 pipe of 160mm diameter (for 400sqmm HT cable laying)  Sub Total (Supply Portion) (in Rs.)  Erection Portion  Sl. No. Description of items  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits Set 4 1,900.80	Н					11,48,296.79			
PART-C-Construction of 11 kv line using 3Cx95 sq. mm of Length 65 Mtr with 1 Run spare.  Supply Portion  1	I	Sub Total (Erection Portion + Civil Portion)				3,60,232.50			
Supply Portion  1 Supply of materials for 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable with accessories  a Length of 11kV 3C, 95sqmm cable (open trench)  Supply of 11kV, 3Core, 95sqmm, XLPE insulation armoured  1.1 UG cable (SC rating of cable in kA- 9kA and SC rating of Armour in kA- 9kA)  1.2 Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Outdoor termination kits Heat Shrinkable type  1.3 Supply of Outdoor termination kits Heat Shrinkable type  Supply of HDPE PE 80-PN8 pipe of 160mm diameter (for 400sqmm HT cable laying)  Supply of HDPE PE 80-PN8 pipe of 160mm diameter (for 400sqmm HT cable laying)  Sub Total (Supply Portion) (in Rs.)  2 Erection Portion  Sl. No. Description of items  Unit Quantit y (in Rs.)  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits  Set 4 1,900.80						15,08,529.29			
1 Supply of materials for 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable with accessories  a Length of 11kV 3C, 95sqmm cable (open trench)  Supply of 11kV, 3Core, 95sqmm, XLPE insulation armoured  1.1 UG cable (SC rating of cable in kA- 9kA and SC rating of Armour in kA- 9kA)  1.2 Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Outdoor termination kits Heat Shrinkable type  1.3 suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of HDPE PE 80-PN8 pipe of 160mm diameter (for 400sqmm HT cable laying)  Sub Total (Supply Portion) (in Rs.)  Erection Portion  Sl. No. Description of items  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits  Set 4 1,900.80	PART-C-Con	struction of 11 kv line using 3Cx95 sq. mm of Length 65 Mtr	with 1	Run spar	·e.				
Insulation armoured UG cable with accessories   a   Length of 11kV 3C, 95sqmm cable (open trench)   Mtr.   65	Supply Portio	on.							
a Length of 11kV 3C, 95sqmm cable (open trench)  Supply of 11kV, 3Core, 95sqmm, XLPE insulation armoured  1.1 UG cable (SC rating of cable in kA- 9kA and SC rating of Armour in kA- 9kA)  1.2 Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Outdoor termination kits Heat Shrinkable type  1.3 suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of HDPE PE 80-PN8 pipe of 160mm diameter (for 400sqmm HT cable laying)  Sub Total (Supply Portion) (in Rs.)  Erection Portion  Sl. No. Description of items  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits  Set 4 14,233.70  Mtr. 98.00 357.60  20  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits  Set 4 1,900.80	1								
Supply of 11kV, 3Core, 95sqmm, XLPE insulation armoured UG cable (SC rating of cable in kA- 9kA and SC rating of Armour in kA- 9kA)	a		Mtr.	65					
Armour in kA- 9kA)  1.2 Supply of Indoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  Supply of Outdoor termination kits Heat Shrinkable type  1.3 suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  1.4 Supply of HDPE PE 80-PN8 pipe of 160mm diameter (for 400sqmm HT cable laying)  Sub Total (Supply Portion) (in Rs.)  2  Erection Portion  Sl. No. Description of items  Unit Quantit y Rate (in Rs.)  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits  Set 4 14,233.70  Quantit y Rate (in Rs.)									
Supply of Outdoor termination kits Heat Shrinkable type	1.1		Mtr.	130.00	1,019.00	1,32,470.00			
1.3 suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core (Set)  1.4 Supply of HDPE PE 80-PN8 pipe of 160mm diameter (for 400sqmm HT cable laying)  Sub Total (Supply Portion) (in Rs.)  Erection Portion  Sl. No. Description of items  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits  Set 4 14,233.70  1.1 130.00 357.60  1.2 14,233.70  1.3 14,233.70  1.4 14,233.70  1.5 14,233.70  1.6 14,233.70  1.7 18,233.70  1.7 18,233.70  1.8 14,233.70  1.9 14,233.70  1.1 2 14,233.70  1.1 2 14,233.70  1.1 2 14,233.70  1.2 14,233.70  1.3 14,233.70  1.4 14,233.70  1.5 2 14,233.70  1.7 2 14,233.70  1.7 2 14,233.70  1.7 2 14,233.70  1.7 2 14,233.70  1.7 2 14,233.70  1.7 2 14,233.70  1.7 2 14,233.70  1.7 2 14,233.70  1.7 2 14,233.70  1.7 2 14,233.70  1.7 2 14,233.70  1.7 2 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7 3 14,233.70  1.7	1.2		Set	4	9,237.80	36,951.20			
1.4 Supply of HDPE PE 80-PN8 pipe of 160mm diameter (for 400sqmm HT cable laying)  Sub Total (Supply Portion) (in Rs.)  2  Erection Portion  Sl. No. Description of items  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits  Set 4 1,900.80	1.3	suitable for 11kV, 3Core, 95 sqmm, HT UG cable for 3Core	Set	4	14,233.70	56,934.80			
Erection Portion  Sl. No. Description of items  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits  Set 4 1,900.80	1.4	Supply of <b>HDPE</b> PE 80-PN8 pipe of <b>160mm</b> diameter (for	Mtr.	98.00	357.60	35,044.80			
Erection Portion  Sl. No. Description of items  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits  Set 4 1,900.80		Sub Total (Supply Portion) (in R	(s )			2,61,400.80			
Sl. No.  Description of items  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits  Set 4 1,900.80	Erection Port					2,01,400.00			
Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits  Set  (in Rs.)  y (in Rs.)  y (in Rs.)  Set 4 1,900.80				Quantit	Rate	Amount			
1 aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method and HDD method  Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits  Set  4 1,900.80	SI. No.	Description of items	Unit	y	(in Rs.)	(in Rs.)			
1.1 aluminium, XLPE insulation armoured (extruded type) UG Mtr. 130.00 94.50 cable by open trench method.  Erection of Straight through jointing kits Heat Shrinkable type suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits Set 4 1,900.80	1	aluminium, XLPE insulation armoured (extruded type) UG							
1.2 suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits Set 4 1,900.80	1.1	aluminium, XLPE insulation armoured (extruded type) UG cable by open trench method.	Mtr.	130.00	94.50	12,285.00			
	1.2	suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits for 3core (set)	Set	4	1,900.80	7,603.20			
Erection of Outdoor termination kits Heat Shrinkable type  1.3 suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits Set 4 1,900.80 for 3core (set)	1.3	suitable for 11kV, 3Core, 95sqmm, aluminium UG cable kits for 3core (set)	Set	4	1,900.80	7,603.20			
Laying of 160mm dia PE 80-PN8, HDPE pipe inside open Mtr. 98.00 300.00	1.4		Mtr.	98.00	300.00	29,400.00			

	Sub Total (Erection Portion) (in Rs.)						
Civil Portion							
	ln	TI .*4	Quantit	Rate	Amount		
Sl. No.	Description of items	Unit	v	(in Rs.)	(in Rs.)		
1	Civil works with supply of all materials like cement, MS tor rod, brick, coarse & fine aggregates and labour, T&P, etc for UG Cable Trench	arse & fine aggregates and labour, T&P, etc					
1.1	Earth work excavation of soil (1mtr. width X 1mtr. depth) Route Length	Mtr	50				
1.1.a	Earth work excavation of soil	Cum	35	700.00	24,500.00		
1.1.b	Earth work excavation of hard rock	Cum	15	1,720.00	25,800.00		
1.2	Back filling with excavated soil outside and above the trench	Cum	50	202.00	10,100.00		
2	Civil works for Prefabricated RCC foundation with supply of all materials						
5	Supply and erection of GI Pipe of dia. 150mm, Class-B (8Mtr.)	Mtr	32	1,463.40	46,828.80		
5	Supply and Erection of Cable Route Marker along the cable route at an interval of 30mtrs with civil works	Nos.	2	1,012.00	2,024.00		
	Sub Total (Civil Portion) (in Rs.)						
					2 (4 400 00		
A	Sub Total (Supply Portion)				<b>2,61,400.80</b> 7,842.02		
В	Stock, Storage & Insurance @ 3 % of A						
C	Sub Total (A+B)						
D	Contingency @ 3 % of C						
E	Tools & Plants Charges @ 2% of C (considered for earthing items)						
F	Transportation @ 7.5% of C						
G	Erection Charges @ 10% of earthing items						
<u>Н</u> І	Total (C+D+E+F+G)  Sub Total (Erection Portion + Civil Portion)						
J	Total Cost (H+I)				1,66,144.20 <b>4,63,657.52</b>		
PART-D-	Construction and Laying of LT 4 core x70 Sq. mm for route	lenot	h 630 Mtr		4,03,037.32		
		lenge		· 			
	Supply of materials for 1.1 KV, 4C, 70 sq. mm XLPE insulation armoured UG cable with accessories						
	Length of 1.1 KV, 4C, 70 sq. mm XLPE cable(open trench)	Mtr.	630				
1	4 core 70 sq. mm XLPE insulation armoured UG Cable	Mtr	630	376.78	2,37,371.40		
2	Supply of HDPE PE 80-PN8 pipe of 110mm diameter(for 95 sq. mm cable Laying)	Mtr	630	357.60	2,25,288.00		
	supply of 1.1 KV Multimeter Panel						
3	No. of 1.1 KV I/C -160 A & 150 Nos. of O/G 32 A	No	6				
3.1	Supply of 1.1 KV I/C-160 A & 20 Nos. of O/G 32A	No	6	207000.00	12,42,000.00		
4	Earthing of Multimeter Panel						
4.1	Earthing conductor 50x6mm (2.4 Kg/Mtr.)GI flat for equipment ,structure etc.)	Kg	79.2	97.50	7,722.00		
4.2	Pipe earthing 40 mm GI pipe	Nos	12	1365.00 A. Sub total	16,380.00		
<u>A</u> 5	Erection Portiopn			A. Sub total	17,28,761.40		
<u> </u>	Laying ,commissioning ,Testing of 1.1 KV ,Aluminium,XLPE insulation armoured UG cable by open trench method						
5.1	Laying of 1.1 Kv ,4 core 70 sq. mm XLPE insulation armoured- aluminium UG cable	Mtr	630	46.8	29,484.00		
5.2	Laying of 110 mm HDPE pipe	Mtr	630	300	1,89,000.00		

6	SITC of Gland /AL term					
6.1	Supply and erection of double compression flameproof type glanding for armoured cable 3.5/4 core ,50-95 sq. mm including making hole in Base plate and dressing of cable along with vermin proofing properly .supply to be done as per TPCODL specification and approved make dowells	EA	18	675	12,150.00	
	approved make dowens				2,30,634.00	
	Civil works with supply of all materials like cement, MS ton rod, bricks, course & fine aggregates and labour, T&P, etc for UG Cable trench				2,50,054.00	
	Earth work excavation of soil(1 Mtr. Width x 1 mtr. Depth)					
1	Earth work excavation of soil	cum	147	700.00	1,02,900.00	
2	Earth work excavation of hard rock	Cum	63	1720.00	1,08,360.00	
3	Back filling with excavation soil outside and above the trench	Cum	210	202.00	42,420.00	
4	Construction of earthing chamber including installation of earthing pipe. Making earthing chamber including excavation, soil treatment with betonide powder, calculation of earth resistance, including installation of 3 Mtr. GI Pipe 40/50 mm including welding of GI flat around pipe.		3700.00	44,400.00		
				SubTotal	2,98,080.00	
A				A. Sub total	17,28,761.40	
В	B. Stock,	Storag	e & Insura	nce @ 3% of A	51,862.84	
С			Sub	Total (C=A+B)	17,80,624.24	
D	T&P @ 2% of C					
E	Contigency @ 3% of C					
F	Transportation @ 7.5% of C					
G	Erection Charges@10%					
Н				Total	1,28,721.37 21,22,055.43	
I	Sub Total(Erection+civil)			1000	5,28,714.00	
	Total Rs.				26,50,769.43	
					20,000,100110	
PART-E	INSTALLATION OF 250 KVA S/S.					
1	50x6mm GI Flat for earthing, 2.36kg/mtr., (2.5x7 mtr. For mesh formation, 12 Mtr. For L.A and 2.5 Mtr for raising, 11 Mtr. For AB Switch ,2.8 Mtr. for HG Fuse, 5x2 Mtr. For DTR neutral,(13-4.5)mtr. For DTR Body, 0.500 Mtr. For LTDB & AB switch operating handle, 3 Mtr. for fencing.)	Kg	106.91	97.50	10423.73	
2	250 KVA , 11/0.4 KV (CU) Transformer BIS Energy Level-II	No	1	601213.06	601213.06	
3	LT Distribution Box with MCCB, Aluminium Busbar of 3 Bay with kit kat fuse for 250 KVA S/S	No	1	62400.00	62400.00	
4	Channel for 11 KV UG cable rising , GI 100x50x6 mm (3000 mm Long)(9.56 Kg/Mtr., 2 Nos.)	Kg	286.8	97.50	27963.00	
5	Channel for 11 KV UG cable rising , GI 75x40x4.8 mm (7.14Kg/Mtr., 2 Nos.)1.5 Mtr. Long 3 Nos. required	Kg	160.65	97.50	15663.38	
6	1 Cx 400 mm2 LT XLPE Cable(Armoured) - FOR 250 KVA Trf.	Mtr	120	359.66	43159.20	
7	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00	
8	GI Pipe for earthing 40mm dia 3mtr long	No	5	1365.00	6825.00	
9	GI Nut, Bolt & washers of different sizes	Kg	10	101.40	1014.00	
10	Name Plate	No	1	104.00	7,82,610.36	
A	A. Sub total					
В	B. Stock, Storage & Insurance @ 3% of A					
C	Sub Total (C=A+B)					
D	T&P @ 2% of C					
E	Contigency @ 3% of C					
F		Iran	sportation	n @ 7.5% of C	60,456.65	

G	Erection Charges @ 5% for transformer and joist pole of	ock, storage & surance @3%	30,962.47			
Н	Erection	on PSC Poles				
I	Erection Charges @ 10% for other materials					
J				Total	9,50,318.07	
11	LT DB Plinth	No	1	3000.00	3000.00	
12	DTR Plinth	No	1	25000.00	25000.00	
13	Construction of earthing chamber including installation of earthing pipe. Making earthing chamber including excavation, soil treatment with betonide powder, calculation of earth resistance, including installation of 3 Mtr. GI Pipe 40/50 mm including welding of GI flat around pipe.	3700.00	18,500.00			
14	Laying of 1Cx400 sq. mm LT XLPE cable	Mtr	120	72.00	8,640.00	
1.5		Sq.	20	2600.00		
15	Supply and Erection of GI fencing with Gate	Mtr.	20	3600.00	72,000.00	
					1,27,140.00	
				Sub total Rs	10,77,458.07	
					, ,	
PART-E	INSTALLATION OF 500 KVA S/S.					
	Channel for 11 KV UG cable rising , GI 100x50x6 mm (3000	1		<del>                                     </del>		
1		Kg	286.8	97.50	27963.00	
	mm Long)(9.56 Kg/Mtr., 2 Nos.)	<u> </u>				
2	Channel for 11 KV UG cable rising, GI 75x40x4.8 mm	Kg	160.65	97.50	15663.38	
	(7.14Kg/Mtr., 2 Nos.)1.5 Mtr. Long 3 Nos. required					
3	50x6mm GI Flat for earthing, 2.36kg/mtr., (2.5x7 mtr. For mesh formation, 12 Mtr. For L.A and 2.5 Mtr for raising, 11 Mtr. For AB Switch, 2.8 Mtr. for HG Fuse, 5x2 Mtr. For DTR Kg neutral, (13-4.5)mtr. For DTR Body, 0.500 Mtr. For LTDB & AB switch operating handle, 3 Mtr. for fencing.)			97.50	10423.73	
4	500 KVA , 11/0.4 KV (CU) Transformer BIS Energy Level-II			1201519.03		
5	LT Distribution Box with MCCB, Aluminium Busbar of 4 Bay with kit kat fuse for 500 KVA S/S	No	1	126149.00	126149.00	
6	1 Cx 400 mm2 LT XLPE Cable(Armoured) - FOR 500 KVA Trf.	Mtr	180	359.66	64738.80	
7	11 KV LA (12KV,10 KA)station class-2	No	3	4615.00	13845.00	
8	GI Pipe for earthing 40mm dia 3mtr long	No	5	1365.00	6825.00	
9	GI Nut, Bolt & washers of different sizes	Kg	10	101.40	1014.00	
10	Name Plate	No	1	104.00	104.00	
A				A. Sub total	14,68,244.93	
В	B. Stock, Sto	orage o	& Insurar	rce @ 3% of A	44,047.35	
С		_	Sub 7	Total (C=A+B)	15,12,292.28	
D				&P @ 2% of C	28,771.63	
E				ncy @ 3% of C	45,368.77	
F	<u> </u>	Tran		•	1,13,421.92	
G	Transportation @ 7.5% of C  Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%					
Н	Erection Charges @ 20% on PSC Poles					
I	Erection Charges @ 10% for other materials					
J	Total					
11	LT DB Plinth					
12	DTR Plinth	No	1	30360.00	3000.00 30360.00	
13	Construction of earthing chamber including installation of earthing pipe. Making earthing chamber including excavation, soil treatment with betonide powder, calculation of earth resistance, including installation of 3 Mtr. GI Pipe 40/50 mm including welding of GI flat around pipe.	No	5	3700.00	18,500.00	

14	Laying of 1Cx400 sq. mm LT XLPE cable	Mtr	180	72.00	12,960.00
15	Supply and Erection of GI fencing with Gate	Sq. Mtr.	20	3600.00	72,000.00
					1,36,820.00
				Sub total Rs	19,18,654.51
	DISMANTLING CHARGES				
1	Dismantling of RS Joist Pole	EA	4	1380.91	5,523.64
2	Dismantling of 55 sq. mm AAAC	Mtr	300	6.44	1,932.00
					7,455.64
	Total Rs.				90,09,859.74
	Cess @ 1%				90,098.60
	Total Estimated Cost			90,99,958.34	
	Total Estimated Cost in Figures				90,99,958.00
EXCESS	LESS Please Tick)			%	
	Quoted Amount in Figure				
	Quoted Amount in word				

N:B- The Estimated cost is exclusive of GST.

Signature of Tenderer with seal

Sd/-Asst. Project Manager (Elect) Sd/-D.M (Elect) I/C

Sd/-Project Manager(Elect)

10667635.5 36750

10630885.5

9009224.98

90092.2498

9099317.23

6359090.31

9009859.74