

Tender No.: TPWODL/AK/O/SER/39

## Ref: TPWODL/AK/O/SER/39-Corrigendum -01

Dated: 25 Aug 2023

## Tender Sub:

Rate Contract for New 33 KV & 11 KV line, Augmentation of 33KV & 11 KV line, Conversion of LT Old conductor, and AB Cable to new and Augmentation of Transformers from **63** KVA TO 500 KVA 11/0.433 KV under Govt Funded scheme CMPDP at TPWODL.

Tender Clause Reference	Remarks
Annexure-I	BOQ has been revised.
Price Schedule	
Technical Specification	TS has been revised.

## By Order Chief-Procurement & Stores, TPWODL

SI. No.	Conductor	Long Text	UOM	Qty	UNIT PRICE (INR)	Amount (In Rs.)
1	Erection of 11 Mtr RSJ/WPB	Installation/Erection of 11 Mtr long, RS JOIST/WPB Pole including loading and unloading, transportation from site/tent upto 10 Km., excavation, refiling, flooding with water, ramming/compacting of foundation as per TP Western Orissa Distribution Co. Ltd. specifications and drawing including removal & disposal of extra malba as per instruction of EIC. The scope of work include providing & laying of 1:1.5:3, M20, concrete of size - 500(B)x500(W)X1800(H), and cooping of 500(B)x500(W)x450(H), Scope of work also includes 5 days curing and zebra painting (In Black & Yellow Strips/Zebra). As per drawing.	EA	9612		-
2	Erection of 13 Mtr RSJ/WPB	Installation/Erection of 13 Mir long RS JOIST/WPB Pole including loading and unloading, transportation from site/tent upto 10 Kms, excavation, refilling, flooding with water, ramming/compacting of foundation as per TP Western Orissa Distribution Co. Ltd. specifications and drawing including removal & disposal of malba as per instruction of EIC. The scope of work include providing & laying of laying of 1:1.5:3, M20 Grade cement concrete concrete of size - 500(B)x500(W)X2200(H), and cooping of 500(B)x500(W)x450(H). Scope of work also includes 5 days curing and zebra painting (In Black & Yellow Strips/Zebra). As per drawing.	EA	3900		-
3	Erection of 9 Mtr PSC pole	Installation/Erection of 9 MTR PSC Pole including loading and unloading, transportation from site/tent upto 10 Kms., excavation, Includes and civil work. The scope also includes providing of all civil material for concreting . Transportation, loading and unloading of Pole from Nearest division/store/site office to site(maximum upto 10KM), Excavation for grouting, including concreting as per TPWODL standards and drawings.Concreting to be done with PCC-11.5:3. of size - 500x500x1500 and ,Padding 500x500x150mm.Scope of work also includes 5 days curing and zebra painting (In Black & Yellow Strips/Zebra) .As per drawing	EA	45000		-
4	Erection of 9 Mtr RSJ/WPB	Installation/Erection of (GI coated 116X 100mm WPB (9 Mtr long) (23 kg Per meter) (Each 207 kg)) Pole including loading and unloading, transportation from site/tent upto 6 Kms., excavation, fixing of base plate, fixing of clamps, iron fittings, steel fabricated work (Angle installation), refilling, flooding with water, ramming/compacting of foundation as per TP Western Orissa Distribution Co. Ltd. specifications and drawing including removal & disposal of malba as per instruction of EIC. The scope of work include providing & laying of 1:1:5:3 cement concrete, and Painting of Pole (In Black & Yellow Strips/Zebra). As per drawing.	EA	1370		-
5	Sply&Inst of Coil Earthing (8SWG)	Supply and erection of earthing coil (8 SWG wire dia) along with 8 SWG Wire, Nut -bolt & other accessories to earth the pole as per TP Western Orissa Distribution Co. Ltd. Design .Scope of work also includes the excavation of earth upto 1.2 Mtr depth for erection of earthing coil and disposal of extra malba upto 150Mtr as EIC instructions.	EA	20362		-
6	Sply&Inst of 11KV GI VBF with Aces	Supply and Installation of GI V cross arm suitable for RS JOISTWPB POLE with Back clamp,F Clamp/Top Bracket(Top Channel) along with all required other accessorie,etc including of nut-bolt. on HT pole for 11kv Line as per Drawing	EA	500		-
7	Sply&Inst of 11KV GI Top Bracket	Supply and Installation of GI Top bracket(120mm length of 100X50X6 mm channel and other suitable size), along with all required other accessories, nut-bolt etc. on HT Joist pole for 11kv Line as per Drawing	EA	250		-
8	Sply&Inst of 11KV GI Back Clamp for V	Supply and Installation of GI Back clamp suitable for PSC/RS JOIST/WPB/H POLE along with all required other accessories etc, including of nut-bolt on HT pole for 11kv Line as per Drawing	EA	250		-
9	Sply&Inst of 33KV GI VBF with Aces	Supply and Installation of GI V cross arm, Back clamp, F Bracket(Top Channel) suitable for RS Joist MVPB pole along with all required other accessories excluding nut-bolt etc. on HT pole for 33kv Line as per Drawing	EA	2600		-
10	Sply&Inst of 33KV GI Top Bracket	Supply and Installation of Top bracket(120mm length of 100X50X6 mm channel and other suitable size)( along with all required other accessories, nut-bolt etc. on HT pole for 33kv Line as per Drawing	EA	1300		-
11	Sply&Inst of 33KV GI Back Clamp for V	Supply and Installation of GI Back clamp, along with all required other accessories excluding nut-bolt etc. on HT pole for 33kv Line as per Drawing	EA	1300		-
12	Sply&Inst 11KV 5KN Poly Pin Insulator	Supply and Installation of 11KV 5KN Polymeric Pin Insulator as per TPWODL Specification-drawing	EA	500		-
13	Sply&Inst 11KV 70KN Poly Disc Insulator	Supply & Installation of 11kV,70KN Polymeric Disc Insulator B&S type upto 125 sq	EA	3668		-
14	Sply&Inst 33KV 10KN Poly	mm ACSR conductor as per TP Western Orissa Distribution Co. Ltd. Specification Supply and Installation of 33kV,10KN Polymeric Pin Insulator as per TPWODL	EA	5460		-
15	Pin Insulator Sply&Inst 33KV 90KN Poly Disc Insulator	specification-drawing Supply & Installation of 33kV,90KN polymeric Disc Insulator for 80,100 148 Sq mm AAAC/ACSR Conductor with nuts and bolts as per TP Western Orissa Distribution Co.	EA	1170		-
16	Sply&Inst 33KV 120KN Poly Disc Insulator	Ltd. Specification Supply & Installation of 33kV, 120KN polymeric Disc Insulator for 148/232 Sq mm AAAC/ACSR Conductor with nuts and bolts as per TP Western Orissa Distribution Co.	EA	2340		-
17	Sply&Inst 11KV Complete HT Stay Set	Ltd. Specification Supply and Fixing of HT(11KV) Complete Stay Set( Complete stay set includes supply and erection of Turn Buckle Assembly, Stay Rod, Stay plate, Stay Insulator, Tension screw(GI SIZE 750X20MM) with Stay clamps and excludes Nuts & bolts and stay wire, )as per TP Western Orissa Distribution Co. Ltd. specifications and drawing. The scope of work includes excavation for all type of soils/RCC/Bituminous/ Rocky etc., breaking of asphalt, back filling removal & disposing of extra malba as per instruction of EIC etc. fabrication works required for stay set and providing and laying of cement concrete jwith Civil foundation size (500mm x 500mmx800mm) for Stay Set. cement concret foundation 1:2:4 size using 20mm BHG metal with all labour and Civil materials ( Cement, Sand, stone, etc) nut-bot etc all consumable items.Note:- Excavation of earth will be done of size 500X500X1500 mm.	EA	2237		-
18	Sply&Inst 33KV Complete HT Stay Set	Supply and Fixing of HT(33KV) Complete Stay Set( Complete stay set includes supply and erection of Turn Buckle Assembly, Stay Rod, Stay plate, Stay Insulator, Tension screw(GI SIZE 750X20MM) with Stay clamps and excludes Nuts & bolts and stay wire, las per TP Western Orissa Distribution Co. Ltd. specifications and drawing. The scope of work includes excavation for all type of soils/RCC/Bituminous/ Rocky etc., breaking of asphalt, back filling removal & disposing of extra malba as per instruction of EIC etc. fabrication works required for stay set and providing and laying of cement concrete jwith Civil foundation size(500mm x 500mmx800mm) for Stay Set. cement concrete foundation 1:2:4 size using 20mm BHG metal with all labour and Civil materials ( Cement, Sand, stone, etc), nut-bot etc all consumable items.Note:- Excavation of earth will be done of size 500X500X1500 mm.	EA	520		-

SI. No.	Conductor	Long Text	UOM	Qty	UNIT PRICE	Amount (In Rs.)
19	Sply&Inst 1.1KV Complete LT Stay Set	Supply and Fixing of HT(1.1KV) Complete Stay Set( Complete stay set includes supply and erection of Turn Buckle Assembly, Stay Rod, Stay plate, Stay Insulator,Tension screw(GI SIZE 750x20MM) with Stay clamps and excludes Nuts & bolts and stay wire,) as per TP Western Orissa Distribution Co. Ltd. specifications and drawing. The scope of work includes excavation for all type of solis/RCC/Bituminous/ Rocky etc., breaking of asphalt, back filling removal & disposing of extra malba as per instruction of EIC etc. fabrication works required for stay set and providing and laying of cement concrete jwith Civil foundation size(500mm x 500mmx800mm) for Stay Set. cement concret foundation 1:2:4 size using 20mm BHG metal with all labour and Civil materials ( Cement, Sand, stone,etc), nut-bot etc all consumable items.Note:- Excavation of earth will be done of size 500X500X1500 mm.	EA	1370	<u>(INR)</u>	-
20	Sply&Inst 3M 40MM Dia GI Earthing Pipe	Supply & Installation of Earthing pipe with 40mm dia 3 Mtr long Class-B GI Pipe(iindal/Tata/Sail/RinI) with earth chamber as per TP Western Orissa Distribution Co. Ltd. specification and drawing (Each pit resistance will be measured and recorded and shall be as per IS). Scope include supply of all required material like Earth Electrode, Salt, Charcoal, Nuts-Bolt ,40mm dia 3 Mtr GI pipe & PVC Pipe PCC ,and brick work for earthing chamber (Size: 2x2') and RCC or other suitable slab cover(earth resistance measurement and with in limit to be achieved by BA).Scope of work also includes leveling & ramming of earth and removal of extra malba.	EA	5549		-
21	Sply&Inst of GI Flat for	Supply & Installation of 40x6mm/50X6mm GI flat for earthing. Scope of work also fabrication,modification of GI flat.	KG	53824		-
22	Earthing Sply&Inst of HT Danger Board with Clamp	Supply & Installation of HT Danger Board with clamp(GI Flat 25X3 mm), nut & bolt as per TP Western Orissa Distribution Co. Ltd. specification	EA	9627		-
23	Sply&Inst of Barbed Wire on Pole	Supply & Installation of Barbed Wire and two set clamp(25x3mm) for fixing the barbed wire at top part and bottom part (to avoid the climbing at pole) for 11Mtr/13 Meter pole as per TP Western Orissa Distribution Co. Ltd. specification and drawing. The approx weight of Barbed wire is 2Kg per Pole	EA	171115		-
24	ITC of 400A LT ACB on exist Strctr	Installation testing and commissioning of LT ACB 400 Amps with enclosure on existing structure excluding earthing	EA	20		-
25	Sply&Inst Dead End LT ABC(3CX95-3CX150)	Supply & Installation of Dead end clamp with all necessary nutbolt for fixing different size of LT ABC Cable Size from 4CX95+1X95+1X16 upto 4CX150+1X150+1X16 .supply to be done as per TPWODL spec & approved Make- Raychem, SICAM,KSE etc	EA	2740		-
26	Sply&Inst Suspension LT ABC(3CX95-3CX150	Supply & Installation of suspension clamp with EYE HOOK or Suspension Clamp with Bracket with all necessary nutbolt for fixing different size of LT ABC Cable Size 4CX95+1X95+1X16 from upto 4CX150+1X16.supply to be done as per TPWODL spec & approved Make-Raychem,KSE,SICAM etc	EA	13700		-
27	Sply&Inst Type-A IPC 50 to 150 sqmm	Supply & Installation of Insulated Piercing Connector Type A suitable for Main -50 to 150 sq mm & Branch 50 to 150Sqmm conductor as per TPWODL specification and drawing, Approved Make	EA	6850		-
28	Sply&Inst Type-B IPC 25- 150 & 6-35 sqmm	Supply & Installation of Insulated Piercing Connector Type B suitable for Main 25 to 150 sq mm & Branch 6 to 35 Sqmm conductor as per TPWODL specification and drawing, Approved Make	EA	10960		-
29	Sply&Inst of 8W LTDB for LT ABC	Supply & Installation of 8W LTDB for releasing power supply to consumer from LT ABC as per TPWODL specification and drawing, Approved Make (Sintex, Neelu, plastochem)	EA	1370		-
30	Sply&Inst of 11KV 3P 200A HG Fuse	Supply & Installation of 11 kV 3- Phase HG Fuse 200A with Polymer Insulator on existing structure including necessary MS Channel, welding, nutbolt as per TPWODL specification and drawing, TPWODL Approved Make.	EA	1056		-
31	Sply&Inst of 11KV 3P D.O. Fuse	Supply and Installation of 11kV D.O. Fuse 3 Phase(Price per Set) (Polymer Insulator) including Fuse Link on existing structure as per TP Western Orissa Distribution Co. Ltd. specification and drawing, TPWODL Approved Make	EA	1056		-
32	SITC of 12KV 10KA Class- II LA	Supply, Installation, Testing & Comissioning of 12KV,10KA,Zinc Metal oxide Lighting arrester Polymer type for Station Class-2.BA will supply all necessary support, MS Channel, nutbolt,earthing connection excluding earthing material supply to be done as per TPWDDL spec & approved Make (Raychem, oblum, lamco)	EA	3193		-
33	Sply&Inst of Nut, bolt & washers	Supply & installation of different size of GI Nut ,bolt & washers	KG	61450		-
34	ITC of 11/0.433KV 100KVA DTR	Installation, Testing and Commissioning of 11/0.4kV, 100kVA 3-Phase Distribution Transformer on existing structure as per TP Western Orissa Distribution Co. Ltd. specification including loading, unloading, Testing of Transformer at Site. shifting/transportation from site /tent. Scope of work includes jumpering/connection at HT and LT side & Earthing Connections.	EA	162		-
35	ITC of 11/0.433KV 250KVA DTR	Installation, Testing and Commissioning of 11/0.4kV, 250kVA 3-Phase Distribution Transformer on existing structure as per TP Western Orissa Distribution Co. Ltd. specification including jumpering & earthing connection/connection at HT and LT side,loading, unloading, shifting/transportation from site /tent upto15KM. Scope of work includes jumpering/connection at HT and LT side & Earthing Connections.	EA	183		-
36	ITC of 11/0.433KV 500- 1000KVA DTR	Installation, Testing and Commissioning of 11/0.4kV, 500KVA-1000kVA 3-Phase Distribution Transformer on existing structure as per TP Western Orissa Distribution Co. Ltd. specification including, jumpering/connection at HT and LT side loading, unloading, Testing of Transformer at Site.shifting/transportation from site /tent upto 15KM. Scope of work includes jumpering/connection at HT and LT side & Earthing Connections.	EA	20		-
37	Constr of Plinth for 250 KVA TRF	Construction of Plinth with Brick, Mortar, 12 mm cement plaster and for 250KVA transformer as per TPWODL drawing,Scope of work includes excavation of earth,supply of Civil material for construction, desposal of extra malba as per EIC instruction.	EA	215		-
38	Constr of Plinth for 250- 500 KVA LTDB	BA will supply all civil Material, excavation, removal of Malba,refilling, including Manpower,machinery etc as per TPWODL Drawing for Plinth for L.T. Distribution box 6ft hight (below GL2ft)x5ftx5ft	EA	1056		-
39	Constr of Plinth for 400- 800 A LT ACB	BA will supply all civil Material along with GI Channel/Angles, excavation , removal of Malba,refilling, including Manpower,machinery etc as per TPWODL Drawing for Plinth for ACB as per TPWODL drawing	EA	215		-
40	Sply&Inst-Gland-3.5/4C- 16/35 sqmm Cbl	Supply and erection of double Compression Flameproof Type Glanding for armored cable 3.5/4C 16-35 SQMM including making hole in base plate and dressing of cable along with Vermin proofing properly .supply to be done as per TPWODL spec & approved Make Dowells	EA	596		-
41	Sply&Inst-Gland-3.5/4C- 50/95 sqmm Cbl	Supply and erection of double Compression Flameproof Type Glanding for armored cable 3.5/4C 50-95 SQMM including making hole in base plate and dressing of cable along with Vermin proofing properly .supply to be done as per TPWODL spec &	EA	486		

SI. No.	Conductor	Long Text	UOM	Qty	UNIT PRICE (INR)	Amount (In Rs.
42	Sply&Inst-Gland-3.5/4C- 120/185 sqmm Cbl	Supply and erection of double Compression Flameproof Type Glanding for armored cable 3.5/4C 120-185 SQMM including making hole in base plate and dressing of cable along with Vermin proofing properly .supply to be done as per TPWODL spec & approved Make Dowells	EA	2139		-
43	Sply&Inst-Gland-3.5/4C- 240/300 sqmm Cbl	Supply and erection of double Compression Flameproof Type Glanding for armored cable 3.5/4C 240-300 SQMM including making hole in base plate and dressing of cable along with Vermin proofing properly .supply to be done as per TPWODL spec & approved Make Dowells	EA	96		-
44	Sply&Inst-Gland-1C- 630/1000 sqmm Cbl	Supply and erection of double Compression Flameproof Type Glanding for armored cable 1C 630/1000 SQMM including making hole in base plate and dressing of cable along with Vermin proofing properly .supply to be done as per TPWODL spec & approved Make Dowells	EA	5		-
45	Excavation of Cable Trench-0.6x0.8x1 M	BA will excavate the cable trench 0.6Mtr depth & 0.8Width & 1Mtr length by providing all necessary tool, Manpower, pump etc suitable for LT Cable laying for minor crossing like infront of shop, houses etc.where BA will supply temporary arrangement-ply woods, Gunny bags etc for cossing for smooth functioning of TrafficBA will supply neccessry Hard barricades & signages at the excavation site.	M3	500		-
46	SITC-1.1 KV 4CX300 Sqmm XLPE	EA will do the supply,Laying,Testing & commissioning of the Cable Test the Cable 1.1KV,4CX300Sqmm XLPE ,AR,FRLS as per TPWODL Drawing,specification , GTP and approved make in cable Trench or Tray. Excavation cost will be paid separately	М	200		-
47	SITC-1.1 KV 4CX185 Sqmm XLPE	BA will do the supply,Laying,Testing & commissioning of the Cable Test the Cable 1.1KV,4CX185Sqmm XLPE ,AR,FRLS as per TFWODL Drawing,specification , GTP and approved make in cable Trench or Tray.Excavation & Transportation cost will be paid separately.	М	1950		-
48	SITC-1.1 KV 4CX120 Sqmm XLPE	BA will do the supply,Laying,Testing & commissioning of the Cable Test the Cable1.1KV,4CX120Sqmm XLPE ,AR,FRLS as per TPWODL Drawing,specification , GTP and approved make in cable Trench or Tray.Excavation & Transportation cost will be paid separately.	М	100		-
49	SITC-1.1 KV 4CX95 Sqmm XLPE	BA will do the supply,Laying,Testing & commissioning of the Cable Test the Cable1.1KV,4CX95Sqmm XLPE ,AR,FRLS as per TPWODL Drawing,specification , GTP and approved make in cable Trench or Tray.Excavation & Transportation cost will be paid separately	М	1620		-
50	SITC-1.1 KV 4CX70 Sqmm XLPE	BA will do the supply,Laying,Testing & commissioning of the Cable Test the Cable 1.1KV,4CX70Sqmm XLPE, AR,FRLS as per TPWODL Drawing,specification, GTP and approved make in cable Trench or Tray.Excavation & Transportation cost will be paid separately	М	5300		-
51	SITC-1.1 KV 4CX35 Sqmm XLPE	BA will do the supply,Laying,Testing & commissioning of the Cable Test the Cable 1.1KV,4CX35Sqmm XLPE, AR,FRLS as per TPWODL Drawing,specification, GTP and approved make in cable Trench or Tray.Excavation& Transportation cost will be paid separately	М	1490		-
52	SITC-160MM HDPE Pipe (PN-4,PE-80)	Supply & Laying/Mounting and fixing of HDPE Pipe -160mm dia (PN-4,Grade PE-80)and sealing of the same for LT/HT Cables. Scope also includes providing and laying all required consumable etc. for collar fixing and sealing of Pipe. (Excavation is excluded)	М	500		-
53	SITC-200MM HDPE Pipe (PN-4,PE-80)	Supply & Laying of HDPE-200mmdia and sealing of the same for Laying LT/HT Cables. Scope also includes providing and laying all required consumable etc. for collar fixing and sealing of Pipe. (Excavation is excluded)	м	100		-
54	Sply&Inst 11KV ST.JT. 3Cx300 sqmm Cbl	Supply & Installation of jointing kit of 11kV 3C x300 sq mm with Heat Shrink and providing jointing services as per TPWODL Standards, GTP, Drawing and specifications. Approved Make- Raychem & 3M.(straight through)	EA	100		-
55	Sply&Inst 11KV ID-Term 3Cx300 sqmm Cbl	Supply & installation of HS Indoor Termination of 11 kV Armoured XLPE, AL Cable 3CX300 sqmm including consumable.BA has to provide the jointer for preparing Termination kit. Approved Make- Raychem & 3M.Scope of work includes the connection & preparation of termination kit.No additional cost will be provided for jointers.	EA	50		-
56	Sply&Inst 11KV OD-Term 3Cx300 sqmm Cbl	Supply and installation of HS Outdoor Termination of 11 kV Armoured XLPE, AL Cable 3CX300 sqmm including consumable material. Approved Make- Raychem & 3M.Scope of work includes the connection & preparation of termination kit.No additional cost will be provided for jointers.	EA	50		-
57	Sply&Inst 33KV ID-Term 3Cx400 sqmm Cbl	Suppply and installation of the HSID Jointing kit for 33KV cable of 3Cx400SQMM XLPE size. BA will supply all necessary tools, Skilled jointer for the activity excludin excavation as per TPWODLStandards.Approved Make- Raychem & 3M.	EA	20		-
58	Jointing Service of 33KV ID 3Cx400 sqmm	BA will supply all necessary tools, Skilled jointer for 33KV HS ID 3Cx400SQMM activity of excludin excavation & Jointing Kit as per TPWODLStandards. This Line item is only for providing jointer and making joint by using suitable equipments by BA.	EA	20		-
59	Jointing Service of 11KV ID 3Cx300 sqmm	BA will supply all necessary tools, Skilled jointer for 11KV 3Cx 300Sqmm ID XLPE the activity excludin excavation & Jointing Kit as per TPWODLStandards. This Line item is only for providing jointer and making joint by using suitable equipments by BA.	EA	30		-
60	Term 11/33KV 3C XLPE HS/CS/PO ID/OD	BA will supply all necessary tools, Skilled jointer for the activity excluding excavation & Termination Kit as per TPWODLStandards. This Line item is only for providing jointer and making joint by using suitable equipments by BA.	EA	30		-
61	Excavation Trench-Hard Rock	BA has to provide all necessary Manpower, Tool, Tackles, Barricades, Dewatering pump, Gunny bags,Compressor for excavation in Hard Surface.	M3	50		-
62	Sply&Lay PVC pipes 150mm	BA will supply & lay PVC pipes 150mm dia .BA will provide necessary Tools,Machinery & Manpower for the activity.	М	1056		-
63	Sply&Lay PVC pipes 200mm	BA will supply & lay PVC pipes 200mm dia.BA will provide necessary Tools,Machinery & Manpower for the activity.	М	200		-
64	Sply&Lay B-Class GI pipes 150mm	BA will supply & lay B Class 150mm GI pipe(SAIL/TATA/JINDAL/RANL).BA will provide necessary Tools,Machinery & Manpower for the activity.	М	1307		-
65	Backfilling with same earth	BA will Back fill the cable excvation site with same earth.BA will provide necessary Tools,Machinery & Manpower for the activity.	М3	250		-
66	Providing & Laying PCC M15(1:2:4)	Providing and laying Plain Cement Concrete (PCC) of proportion (1:2:4) in foudations and plinths using approved quality of cement, 20mm size hard crusher broken granite stone metal and screened, washed sharp sand for mortar of approved quality and from approved quarry, including hoisting, lowering, laying concrete, ramming, watering and curing etc. complete to required levels in layers not exceeding 15cm thick in each layer including cost, conveyance, loading, unloading, royalties and taxes, cess, of all materials & cost of all labours, sundries, T&P and all other machinaries required for the work etc., as directed by Engineer-in-Charge.	МЗ	2377		-
67	Lay-11KV Cbl(70-400 sqmm)-Trench/Tray	Laying of 11KV 3C Cable (70sqmm to 400 Sqmm) sqmm in Trench// cable Tray as per TPWODL. specification including testing of cable. Scoope of work also includes providing necessary Tools, Machinary, Manpower for laying.	М	250		-

Cable to new and Augmentation of Transformers from 63 KVA TO 500 KVA 11/0.433 KV under Govt Funded scheme CMPDP at TPWODL.							
SI. No.	Conductor	Long Text	UOM	Qty	PRICE (INR)	Amount (In Rs.)	
68	Lay-1.1KV Cbl(16-630 sqmm)-Trench/Pipe	BA will provide necessary Tools, Machinary, Manpower for laying of 1.1KV 4C/1C/2C XLPE Cable ( 16sqmm to 630Sqmm) in Trench / HDPE Pipe/ Hum pipe .	М	7317		-	
69	Installation of 11KV V- cross Arm	Installation of V cross arm on pole along with Nut bolts for 11KV line.Nutbolts will be paid separately.	EA	2000		-	
70	Installation of 11KV Top Bracket	Installation of Top bracket on pole along with Nutbolts for 11KV line.Nutbolts will be paid separately.	EA	2000		-	
71	Installation of 11KV Back Clamp for V	Installation of Back clamp for V Cross arm along with Nutbolts for 11KV line.Nutbolts will be paid separately.	EA	2000		-	
72	Inst of 11KV Polymer PIN Insulator	Installation of 11KV Polymer Insulator along with Nutbolts for 11KV line.Nutbolts will be paid separately.	EA	6000		-	
73	Inst 11KV poly-Disc Insulator with H/W	Installation of 11KV Polymer Disc Insulator (45KN- 90KN) along with Hardware fitting for 11KV line.Nutbolts will be paid separately.	EA	3000		-	
74	Fix-11KV complete stay set	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 per TPWODL Drawing & Standard.	EA	2862		-	
75	Installation of 33KV V- cross Arm	Installation of V cross arm on pole along with Nutbolts for 33KV line.Nutbolts will be paid separately.	EA	1040		-	
76	Installation of 33KV Top	Installation of Top bracket on pole along with Nutbolts for 33KV line.Nutbolts will be	EA	1040		-	
77	Bracket Installation of 33KV Back	paid separately. Installation of Back clamp for V Cross arm along with Nutbolts for 33KV line.Nutbolts will	EA	1040			
78	Clamp for V Inst of 33KV 10KN Poly	be paid separately. Installation of 33KV Polymer Pin Insulator 10KN along with Nutbolts for 33KV	EA	1300			
79	PIN Insulator Inst of 33KV 90-120KN	line.Nutbolts will be paid separately. Installation of 33KV Polymer Disc Insulator (90KN- 120KN) along with Hardware fitting	EA	780			
80	Poly Disc&H/W Fix-33KV complete stay set	for 11KV line.Nutbolts will be paid separately. Fixing of complete 33KV 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 per TPWODL Drawing & Standard.Note Excavation of earth will be done of size 500X500X1500 mm.	EA	260		-	
81	Fix-LT complete stay set	Fixing of complete LT 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 per TPWODL Drawing & Standard.Note Excavation of earth will be done of size 500X500X1500 mm.	EA	2740		-	
82	Fixing of 11KV HT Stay Insulator	Fixing of HT stay Insulator as per site requirement .BA will provide only services	EA	2112			
83	Fixing of 11KV HT Stay Clamp	Fixing of HT stay clamp as per site requirement .BA will provide only services	EA	2112		-	
84	Fixing of HT 7/10 SWG Stay Wire	Fixing of HT stay wire as per site requirement .BA will provide only services	KG	12672		-	
85	Fixing of LT Stay Insulator	Fixing of LT Stay Insulator	EA	2740		-	
86	Fixing of LT Stay Clamp Fixing of LT 7/12 SWG	Fixing of LT Stay Clamp	EA	2740		-	
87	Stay Wire	Fixing of 7/12 Swg Stay wire BA will install LTDB box in pole for releasing power supply to LT 1ph & 3ph	KG	4110		-	
88	Inst 4W service LT Dist BOX in Pole	consumer.Scope includes provide necessary GI clamp arrangement for fixing LTDB to pole.Termination of incoming & outgoing cable in LT Dist Box BA will install LTDB box in pole for releasing power supply to LT 1ph & 3ph	EA	5000		-	
89	Inst 8W service LT Dist BOX in Pole Inst of Strain fittings-LT	consumer.Scope includes provide necessary GI clamp arrangement for fixing LTDB to pole.Termination of incoming & outgoing cable in LT Dist Box Installation of strain fitting for sringing LT ABC Cable.BA will provide necessary tool,	EA	5000		-	
90	ABC	manpower, nubolt .	EA	1370		-	
91	Inst of Guy grip Dead End- LT ABC	Installation of Guy Grip Dead end for sringing LT ABC Cable.BA will provide necessary tool, manpower, nubolt.	EA	1370		-	
92	Inst of Suspension Clamp- LT ABC	Installation of suspension clamp for stringing LT ABC Cable.BA will provide necessary tool, manpower, nubolt.	EA	1370		-	
93	Inst of Dead End Clamp- LT ABC	Installation of Dead end clamp for stringing LT ABC Cable.BA will provide necessary tool, manpower, nubolt.	EA	1370		-	
94	ITC of 11KV 3P 200A HG Fuse	Installation, Testing & comissioning of HG Fuse set in existing structure providing necessary manpower, nutbolt, Terminal connection, earthing connection, site minor modification, welding, Ms channel etc	EA	1056		-	
95	ITC of 12 KV, 10KA/Ph LA	Installation, Testing & comissioning of the Lighting arrester (single phase) in existing structure providing necessary manpower, nutbolt, Terminal connection, earthing connection, site minor modification, welding, Ms channel etc	EA	3168		-	
96	Inst of 11KV DD Fuse	BA will install the DD Fuse unit in existing structure providing necessary manpower, nutbolt, Terminal connection, earthing connection, site minor modification, alignment, welding,Ms channel etc	EA	1056		-	
97	ITC of 11KV 3P 200A AB Switch	Installation ,Testing & comissioning of at 11KV 3pole AB Switch 200Amp in existing structure providing necessary manpower, nutbolt,Terminal connection, earthing connection, site minor modification, alignment, welding,Ms channel etc	EA	1056		-	
98	ITC of 11KV 3P 400A G.O/AB Switch	Installation , Testing & comissioning of 11 kV 3- Phase (200Amp,400Amp) G.O /AB Switch on existing structure including alignment correction of all phases as per TPWODLspecification and drawing	EA	1024		-	

		D/SER/39. BOQ for Rate Contract for New 33 KV & 11 KV line, Augmentation of 33KV & 11 Augmentation of Transformers from 63 KVA TO 500 KVA 11/0.433 KV under Govt Funder			WODL.	1
SI. No.	Conductor	Long Text	UOM	Qty	UNIT PRICE (INR)	Amount (In Rs.
99	String of 1.1 KV LT ABC(3Cx35-150sqmm)	Stringing of Different size of LT AB Cable A) 6wire from 4 x35 + 1x35mm <sup>2</sup> +1X16mm2 upto 4X150+1X150+1X16SQM B) & 5 Wire AB Cable from 3x35+1x25+1x16 mm upto 3X95+1X70+1X16 sqmm BA will provide necessary manpower, tools, machinery etc, ladder etc for stringing activities. Transport cost will be paid separately	М	1370000		-
100	Painting of Pole in Black&Yellow strip	Painting of Pole in Black & Yellow strips/Zebra as per TPWODLspecification and indexing/numbering of Poles as per GIS format, scope also include site survey for GIS indexing and supply of ISI marked good quality paint.	EA	38502		-
101	ITC-OD LTDB for 11/0.4KV 250KVA TRF	Installation, Testing & Comissioning of Outdoor Type LT Distribution Box with MCCB for 11/0.4KV,250kVA Three Phase Transformer on existing structure as per TP Western Orissa Distribution Co. Ltd. specification	EA	183		-
102	ITC-OD LTDB for 11/0.4KV 315KVA TRF	Installation, Testing & Comissioning of Outdoor Type LT Distribution Box with MCCB for 11/0.4kV,315kVA Three Phase Transformer on existing structure as per TP Western Orissa Distribution Co. Ltd. specification	EA	12		-
103	ITC-OD LTDB for 11/0.4KV 500KVA TRF	Installation, Testing & Comissioning of Outdoor Type LT Distribution Box with MCCB for 11/0.4KV,500kVA Three Phase Transformer on existing structure as per TP Western Orissa Distribution Co. Ltd. specification	EA	20		-
104	ITC-OD LTDB for 11/0.4KV 500-1000KVA TRF	Installation, Testing & Comissioning of Outdoor Type LT Distribution Box with MCCB/ACB for 110.4KV,500-1000KVA Three Phase Transformer on existing structure as per TP Western Orissa Distribution Co. Ltd. specification	EA	50		-
105	Installation of all type Connector	Installation of All type of Connector PG Clamp, T Clamp , connector, palm connector	EA	29500		-
106	Stringing & Fixing of GI &	Stringing & Fixing of all Type of GI & saty wire SWG including jumpering & earthing	м	12674		
107	stay wire Making & Fixing of	connection & making of connection hooks etc. as per TPWODLspecification Making & Fixing of Guard Lace of All type of G.I. Wire for HV Line (price per lacing)	M	2526		
-	Guarding-Lace Stringing of WOLF 148	Stringing of 148 sq mm AAAC Conductor including jumpering & earthing connection &				-
108	sqmm AAAC Stringing of DOG 80-125	making of connection etc .	М	70		-
109	sqmm AAAC	Stringing of Dog Conductor(80sq.mm to 125 sq.mm AAAC)	М	800		-
110	Sply/Crimping/Fixing AL Lug-35sqmm	Supply of AL Lugs suitable for 35 sq mm cable/conductor, Crimping with cable and Fixing/connecting as per TPWODL Specification .Scope also include supply and erection of PVC Tape as per voltage requirement.	EA	447		-
111	Sply/Crimping/Fixing AL Lug-50sqmm	Supply of AL Lugs suitable for 50 sq mm cable/conductor, Crimping with cable and Fixing/connecting as per TPWODL Specification.Scope also include supply and erection of PVC Tape as per voltage requirement.	EA	447		-
112	Sply/Crimping/Fixing AL Lug-70sqmm	Supply of AL Lugs suitable for 70 sq mm cable/conductor, Crimping with cable and Fixing/connecting as per TPWODL Specification. Scope also include supply and erection of PVC Tape as per voltage requirement.	EA	1590		-
113	Sply/Crimping/Fixing AL Lug-95sqmm	Supply of AL Lugs suitable for 95 sq mm cable/conductor, Crimping with cable and Fixing/connecting as per TPWODL Specification. Scoope also include supply and erection of PVC Tape as per voltage requirement.	EA	486		-
114	Sply/Crimping/Fixing AL Lug-120sqmm	Supply of AL Lugs suitable for 120 sq mm cable/conductor, Crimping with cable and Fixing/connecting as per TPWODL Specification. Scoope also include supply and erection of PVC Tape as per voltage requirement.	EA	50		-
115	Sply/Crimping/Fixing AL Lug-185sqmm	Supply of Aluminium Lugs suitable for 185 sq mm cable/conductor, Crimping with cable and Fixing/connecting as per TPWODL Specification .Scope also include supply and erection of PVC Tape as per voltage requirement.	EA	732		-
116	Sply/Crimping/Fixing AL Lug-300sqmm	Supply of Aluminium Lugs suitable for 300 sq mm cable/conductor, Crimping with cable and Fixing/connecting as per TPWODL Specification. Scope also include supply and erection of PVC Tape as per voltage requirement.	EA	108		
117	Sply/Crimping/Fixing AL Lug-400sqmm	Supply of Aluminium Lugs suitable for 400 sq mm cable/conductor, Crimping with cable and Fixing/connecting as per TPWODL Specification. Scope also include supply and erection of PVC Tape as per voltage requirement.	EA	40		-
118	Sply/Crimping/Fixing AL Lug-630sqmm	Supply of Aluminium Lugs suitable for 630 sq mm cable/conductor, Crimping with cable and Fixing/connecting as per TPWODL Specification.Scope also include supply and erection of PVC Tape as per voltage requirement.	EA	20		-
119	Transport through Trailer upto 70KM	Transportation of various items from TPWODL store/site to other site or vice versa in TPWODL operational area - Trailer with labours as required (price per trip). Scope of work also include loading and unloading of materials heavy items like, 14 mt Rail Pole, PCC Pole, HT Panel, Transformer, Cable Drum, LT Board . Item whose loading& unloading is to be done with crane , charges for crane will be paid separately. (Full Trailer)	EA	382		-
120	Transport through Trailer beyong 70KM	Transportation of various items from TPWODL store/site to other site or vice versa in TPWODL operational area - Trailer per KM beyond 70KM with labours as required (price per trip). Scope of work also include loading and unloading of materials heavy items like, 14 mt Rail Pole, PCC Pole, HT Panel, Transformer, Cable Drum, LT Board . Item whose loading& unloading is to be done with crane , charges for crane will be paid separately. (Full Trailer)	КМ	5000		-
121	Transport through Truck upto 40KM	Transportation of various items from TPWODL store/site to other site or vice versa in TPWODL operational area - Full body Truck with labours as required (price per trip). Scope of work also include loading and unloading of materials except heavy items like HT Panel, Transformer, Cable Drum, LT Board where loading, unloading is to be done with crane and will be paid separately (Full Truck)	EA	804		-
122	Transport through Truck beyond 40KM	Transportation of various items from TPWODL store/site to other site or vice versa in TPWODL operational area - Full Body Truck per KM beyond 40 KM with labours as required (price per trip). Scope of work also include loading and unloading of materials heavy items like, Rail Pole, PCC Pole, HT Panel, Transformer, Cable Drum, LT Board . Item whose loading& unloading is to be done with crane , charges for crane will be paid separately.	КМ	5000		-
123	Transport through Tempo upto 40KM	Transportation of various items from TPWODL store/site to other site or vice versa in TPWODL operational area - Tempo (Magic, ACE,etc) with labours as required (price per trip). Scope of work also include loading and unloading of materials except heavy items like HT Panel, Transformer, Cable Drum, LT Board where loading, unloading is to be done with crane and will be paid separately	EA	792		
124	Transport through Tempo beyond 40KM	Transportation of various items from TPWODL store/site to other site or vice versa in TPWODL operational area - Tempo (Magic, ACE,etc) per KM beyond 40 KM with labours as required (price per trip). Scope of work also include loading and unloading of materials heavy items like, Rail Pole, PCC Pole, HT Panel, Transformer, Cable Drum, LT Board . Item whose loading& unloading is to be done with crane , charges for crane will be paid separately.	КМ	4000		-

			SI. No. Conductor Long Text UOM Qtv PRICE Amount						
SI. No.	Conductor	Long Text	UOM	Qty	PRICE (INR)	Amount (In Rs.)			
125	Transport through 407 upto 70Km	Transportation of various items from TPWODL store/site to other site or vice versa in TPWODL operational area - Tempo 407 with labours as required (price per trip). Scope of work also include loading and unloading of materials except heavy items like HT Panel, Transformer, Cable Drum, LT Board where loading, unloading is to be done with crane and will be paid separately	EA	1000		-			
126	Transport through 407 beyond 70Km	Transportation of various items from TPWODL store/site to other site or vice versa in TPWODL operational area -TATA 407 per KM beyond 70 KM with labours as required (price per trip). Scope of work also include loading and unloading of materials heavy items like, Rail Pole, PCC Pole, HT Panel, Transformer, Cable Drum, LT Board . Item whose loading& unloading is to be done with crane , charges for crane will be paid separately.	KM	4000		-			
127	Civil-TFR Plinth 250KVA upto 1000KVA	Civil cost for making TRF plinth from 250KVA of upto 1000KVA.BA has to provide necessary civil material, manpower, machinery for construction of plinth as per TPWODL Drawing	EA	183					
128	ITC-33KV Isolator W-ES in exist Strctr	Installation ,testing & commissioning of 33KV , 3 Ph gang operated , Manual Operated, Disconnector (isolator) solid core post insulatorWith earth switch with gear box arrangement and other accessories including jumpering & earthing connection if any "	EA	13		-			
129	ITC-33KV Isolator W/O-ES in exist Strctr	"Installation ,testing & commissioning of 33KV , 3 Ph gang operated , Manual Operated, Disconnector (Isolator) with solid core pos t insulatorWithout earth switch with gear box arrangement and other accessories including jumpering & earthing connection if any "	EA	26		-			
130	Dismantle-11/13M RSJ/ WPB Pole	Dismantling of 11/13 Mtr. Joist/WPB Pole- 150X150 mm/ 160X160 mm (Serviceable Pole) after digging the pit and taking out the pole, transportation and stacking the pole at a proper place in safe position within 10km /site store and refilling the pit with loose earth and ramming including removal and disposal of malba at proper location as per instruction of EIC.	EA	260		-			
131	Dismantle-9/11M RSJ/ WPB Pole	Dismantling of 09/11 Mtr. Joist/WPB Pole- 116X100mm (Serviceable Pole) after digging the pit and taking out the pole, transportation and stacking the pole at a proper place in safe position within 10km /site store and refilling the pit with loose earth and ramming including removal and disposal of malba at proper location as per instruction of EIC.	EA	605		-			
132	Dismantle-8/9M RSJ/PCC Pole	Dismantling of 9/8 Mtr. PCC/Joist Pole (Serviceable Pole) after digging the pit and taking out the pole, transportation and stacking the pole at a proper place in safe position within 10km /site store and refilling the pit with loose earth and ramming including removal and disposal of malba at proper location as per instruction of EIC.	EA	674		-			
133	Dismantle-11KV V-Cross arm	Dismantling / Removal of V Cross arm from pole including loading, transportation, unloading and staking of dismantled material at a proper place in safe position at Site Store.	EA	750		-			
134	Dismantle-11KV PIN	Dismantling of 11kV Pin Insulator with Pin including loading, transportation, unloading	EA	2250		-			
135	Insulator Dismantle-11KV Disc Insulator	and staking at a proper place in safe position/ site store. Dismantiing of 11kV Disc Insulator with Hardware including loading, transportation, unloading and staking at a proper place in safe position/ site store.	EA	750		-			
136	Dismantle-MS Channel & Angle	Dismantling / Removal of MS Channel. from Double Pole Structure /pole including loading, transportation, unloading and staking of dismantled material at a proper place in safe position at Site store	KG	5211		-			
137	Construction of FRP fencing	BA will provide necessary Manpower, FRP Fencing & Ms Material for construction boundary wall fencing as per TPWODL Drawing, specification & GTP.	M2	200		-			
138	Construction of Boundary wall Fencing	BA will provide necessary Manpower, civil material & Ms Material for construction boundary wall fencing as per TPWODL requirement	M2	200		-			
139	ITC-11KV Isolator upto 630A with Acces	Installation ,testing & commissioning of 12KV , 3 Ph gang operated , Manual Operated, Disconnector (Isolator) with solid core post insulatorWith earth switch with gear box arrangement and other accessories including jumpering & earthing connection & earthing connection if any ".	EA	125		-			
140	ITC-33KV Isolator upto 800A with Acces	Installation ,testing & commissioning of 36KV , 3 Ph gang operated , Manual Operated, Disconnector (Isolator) with solid core pos t insulatorWith earth switch with gear box arrangement and other accessories including jumpering & earthing connection & Earthing connection if any "	EA	13		-			
141	Dismantle-16KVA DTR	Dismantling of existing 11/0.4kV, Three Phase Distribution Transformer 16KVA including removal of HT/LT leads, earth connections and unloading by crane if required. Scope of work also includes loading, transportation, unloading and staking at a proper place in safe position/site store	EA	105		-			
142	Dismantle-25KVA DTR	Dismantling of existing 11/0.4kV, Three Phase Distribution Transformer 25KVA including removal of HT/LT leads, earth connections and unloading by crane if required. Scope of work also includes loading, transportation, unloading and staking at a proper place in safe position/site store	EA	149		-			
143	Dismantle-63KVA DTR	Dismantling of existing 11/0.4kV, Three Phase Distribution Transformer 63KVA including removal of HT/LT leads, earth connections and unloading by crane if required. Scope of work also includes loading, transportation, unloading and staking at a proper place in safe position/site store	EA	530		-			
144	Dismantle-100KVA DTR	Dismantling of existing 11/0.4kV, Three Phase Distribution Transformer below 100KVA including removal of HT/LT leads, earth connections and unloading by crane if required. Scope of work also includes loading, transportation, unloading and staking at a proper place in safe position/site store	EA	162		-			
145	Dismantle-250KVA DTR	Dismantling of existing 11/0.4kV, 250kVA Three Phase Distribution Transformer including removal of HT/LT leads, earth connections and unloading by crane if required. Scope of work also includes loading, transportation, unloading and staking at a proper place in safe position/site store	EA	183		-			
146	Dismantle-250-500KVA DTR	Dismantling of existing 11/0.4kV, 500kVA Three Phase Distribution Transformer including removal of HT/LT leads, earth connections and unloading by crane if required. Scope of work also includes loading, transportation, unloading and staking at a proper place in safe position/site store	EA	32		-			
147	Dismantle-34-55 sqmm AAAC Conductor	Dismantling of ACSR/AAC 34/ 55mm2 from overhead line, recoiling, loading, transportation, unloading and staking at a proper place in safe position/ site store	М	300000		-			
148	Dismantle-80-100 sqmm	Dismantling of ACSR/AAAC 80/100 mm2 from overhead line, recoiling, loading,	М	300000		-			
149	AAAC Conductor ITC-160A OD MCCB DB in Exist Strctr	transportation, unloading and staking at a proper place in safe position/site store Installation , Testing & comissioning of 1.1kV, 3 Phase ACB/MCCB/ICTP Switch Unit- 100/200 A on existing structure and connecting of cable leads into the MCCB/ACB/ICTP Switch.If aluminium bus bar extension required installation of insulators to support the busbar and providing the provision of cable support including taping. Scope of work also includes cable dressing & cable termination if required as per TPWODL requirement.	EA	20		-			

	Cable to new and	Cable to new and Augmentation of Transformers from 63 KVA TO 500 KVA 11/0.433 KV under Govt Funded scheme CMPDP at TPWODL.						
SI. No.	Conductor	Long Text	UOM	Qty	UNIT PRICE (INR)	Amount (In Rs.		
150	ITC-500A OD MCCB DB in Exist Strctr	Installation, testing and commissioning of 1.1kV, 3 PhaseACB/MCCB - 400/630/800/1250/2000 Amps existing structure and connecting of cable leads into the MCCB/ACB/ICTP Switch. If aluminium bus bar extension required installation of insulators to support the busbar and providing the provision of cable support including taping. Scope of work also includes cable dressing & cable termination if required as per TPWODL requirement.	EA	1056		-		
151	Sply&Inst of Cable Route Marker	Supply and Installation of cable Route marker including transportation from site/tent, excavation, refilling, disposing of malba, flooding with water, ramming/compacting of foundation as per TPWODL specifications and drawing.	EA	100		-		
152	Prov 7.5 Ton Crane/Farana service	PROVD/OPERT Farana 7.5 Ton for 12Hr for loading & unloading of material.Farana will be used at TPWODL Store/Site &same farana will be used at site for unloading.	TRP	1211		-		
153	Sply&Inst&Fab 100x50x6 mm GI channel	Supply, Installation and Fabrication of 100x50x6 mm GI MS channel on pole , DP structure etc as per TPWODL specifications	KG	55950		-		
154	Sply&Inst&Fab 75x40x6 mm GI channel	Supply, Installation and Fabrication of 75x40x6 mm GI MS channel on pole , DP structure etc as per TPWODL specifications	KG	34830		-		
155	Sply&Inst&Fab 50x50x6 mm GI channel	Supply, Installation and Fabrication of 50x50x6 mm GI_MS channel on pole , DP structure etc as per TPWODL specifications	KG	24270		-		
156	Sply&Inst of G.I Fencing with Gate	Supply and Erection of GI Fencing with Gate as per TPWODL specifications	M2	1056		-		
157	Sply&Inst of 2x2 Ft PSC Baseplate	Supply and Installation of concrete slab base plate 2ftx2ft forPSC pole as per TPWODL specifications , approved make.	EA	6850		-		
158	Dismantle-LT AB Cable with acces	Dismantling of varous size of LT AB Cable from over head line, recoiling, loading,transportation, unloading and staking at a proper place in safe position/BA site store.	м	68500		-		
159	SITC-30KV 10KA Station Class LA	BA will Supply, install & Testing of 30 KV 10KA Zinc Metal oxide Lighting arrester for all three phases as per TPWODL drawing, GTP & Specification. The scope also includes earthing Connection	EA	200		-		
160	ITC-30KV 10KA Station	Installation of 3phase ,30 KV 10KA Lighting arrester along with earthing connection,	EA	200		-		
161	Class LA ITC-33KV 3P 400A AB	Fixing of all Three arrester on Ms channel Installation of 33 kV 3- Phase (400Amp) G.O./AB Switch on existing structure including	EA	200		-		
162	Switch Installation of IP Connector	alignment correction of all phases as per TPWODLspecification and drawing Installation of Insulated Piercing Connector as per TPWODL specification and drawing	EA	6850		-		
163	Trenchless-HDD by 200mm Dia-PN6	Making Trenchless ducts with 200 mm dia including laying of cable & HDPE pipe HDPE pipe casing using HDD machine including supply of pipe of grade PN Grade 6,	м	500		-		
164	SITC Treated Earthing Pit	200 mm dia Bidder will provide necessary materia for Earthing with GI pipe earth electrode with treated earth Pil . With earth enhancement material as per IEEE80:2000,14.5(D)( Earth	EA	1500		-		
165	Dismantle-ACSR Panther Conductor	pit resistance will be measured and recorded) Dismantling of ACSR "Panther" conductor (per mtr. per conductor) including stacking at site and transportation of dismentalled material to TPWODL store/ site as per requirement of Engineer- in- charge.	м	130000		-		
166	Erection of 8 Mtr PSC pole	from site/tent upto 10 Kms., excavation, Includes and civil work. The scope also includes providing of all civil material for concreting . Transportation, loading and unloading of Pole from Nearest division/store/site office to site(maximum upto 10KM), Excavation for grouting, including concreting as per TPWODL standards and drawings.Concreting to be done with PCC-1:1.5:3. of size 500x500x1400 and .Padding 500x500x150mm.Scope of work also includes 5 days curing and zebra painting (In Black & Yellow Strips/Zebra) .As per drawing	EA	300		-		
167	Inst of Coil Earthing to Pole	Erection of earthing coil (8 SWG wire dia) along with 8 SWG Wire, Nut -bolt & other accessories to earth the pole as per TP Western Orissa Distribution Co. Ltd. Design .Scope of work also includes the excavation of earth upto 1.2 Mtr depth for erection of earthing coil and disposal of extra malba up to 150Mtr as EIC instructions.	EA	5000		-		
168	PCC 1:3:6	Providing and laying Plain Cement Concrete (PCC) of proportion (1:3:6) in foundations, Trench and plinths using approved quality of cement, 20mm size hard crusher broken granite stone metal and screened, washed sharp sand for mortar of approved quality and from approved quarry, including hoisting, lowering, laying concrete, ramming, watering and curing etc. complete to required levels in layers not exceeding 15cm thick in each layer including cost, conveyance, loading, unloading, royalties and taxes, cess, of all materials & cost of all labours, sundries, T&P and all other machinaries required for the work etc., as directed by Engineer-in-Charge.	M3	500		-		
169	Brick work in Foundation&Plinth 1:4	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in Cement mortar 1:4 (1 Cement : 4 Coarse sand) as per TPWODL specifcation. Scope includes supply of all material	М3	300		-		
170	Brick work above plinth 1:4	Brick work with bricks of class designation 75 in superstructure above plinth level upto floor five level in cement mortar 1:4 (1 Cement :4 Coarse sand) as per TPWODL specification. Scope includes supply of all material	М3	200		-		
171	Brick work in Foundation&Plinth 1:6	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in Cement mortar 1:6 (1 Cement : 6 Coarse sand) as per TPWODL specification. Scope includes supply of all material	М3	200		-		
172	Brick work above plinth 1:6	Brick work with bricks of class designation 75 in superstructure above plinth level upto floor five level in cement mortar 1.6 (1 Cement :6 Coarse sand) as per TPWODL specification. Scope includes supply of all material	М3	250		-		
173	Reinforcement for R.C.C. work	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all copruplete, cold twisted bars/TMT as per TPWODL specification (Scope also include supply of material)	KG	200		-		
174	Sply&Inst-GI Pole Clamp for Eyehook	BA has to Supply & Install GI pole Clamp (50X8 flat) for fixing Eyehook.9Mtr PSC as per TPWODL Drawing.Approved Make-Raychem, SICAME	PAA	5000		-		
175	Sply&Inst-SS strap(7.5KN)	Supply & Installation of Stainless steel Strap-7.5KN (20MM-W X0.7MM-T), Approved Make-Raychem, SICAME	KG	50		-		
176	Sply&Inst-SS Buckle for SS strap	Supply& Installation of Stainless steel Buckle for SS Strap as AISI304, Approved Make - Raychem, SICAME	EA	150		-		
177	Installation-SS Strap	Installation of Stainless Steel Strap for fixing Suspension & deadend clamp	М	150		-		
178	Installation-SS Buckle	Installation of Stainless Steel Buckle Detail Survey of 33 kV lines, profile plotting, pole spotting and preparation of pole	EA	150		-		
179	Survey-33KV lines Lay-11KV XLPE UG by	Laving of 11 Kv XLPE Cable Underground by HDD Method Under Railway Track for 30	KM	130		-		
180	HDD under Railway	Mrs with Heat sink type cable end termination with HDPE Pipe BA will ay Earthing Conductor: 50X6 mm (2.4Kg./Mr.) or 40x6 GI Flat for Raiser from	М	100		-		
181	Flat	the burial earth mat to equipment, structure etc)	KM	200		-		

SI. No.	Conductor	Long Text	UOM	Qty	UNIT PRICE (INR)	Amount (In Rs.)
182	Inst&Fabrication of GI Channel	BA has to do the installation,welding & fabication work of different size GI Channel(100x50x6mm, 75x75x6mm, 50x50x6mm,75X40X4.6mm etc) as per size requirement	Kg	19660	(	-
183	Sply-PG Clamp-148 sqmm Conductor	BA will supply of PG Clamp for 148sqmm AAAC as per IS	EA	150		-
184	Sply-PG Clamp-100 sqmm Conductor	BA will supply of PG Clamp for 100sqmm AAAC as per IS	EA	3668		-
185	Sply-PG Clamp-232 sqmm Conductor	BA will supply of PG Clamp for 232sqmm AAAC as per IS	EA	300		-
186	Sply&Inst 70KN 3-Bolted H/W fittings	BA will supply & Installation of 70KN 3bolted as per TPWODL Specification & drawing	EA	800		-
187	Sply&Inst 90KN 4-Bolted H/W fittings	BA will supply & Installation of 90KN 4bolted as per TPWODL Specification & drawing	EA	1312		-
188	Sply&Inst Single Tens H/W Fit-232 sqmm	BA will supply & Installation of Single Tension HW fitting for 232 sq.mm conductor as per IS IS 2486 (I & II)	EA	100		-
189	Sply&Lay-HDPE-160mm PN-8 PE-80-HDD	Supply & Laying of PIPE HDPE 160 MM DIA PN8, PE 80 through HDD method .Scope of work also includes making Trenchless ducts with 160 mm Dia HDPE pipe casing using HDD machine including supply of HDPE pipe as per IS 4984, (Providing parabolic graph included in the scope)	m	200		-
190	Sply&Lay-HDPE-200mm PN-8 PE-80-HDD	Supply & Laying of PIPE HDPE 200 MM DIA PN8, PE 80 through HDD method .Scope of work also includes making Trenchless ducts with 200 mm Dia HDPE pipe casing using HDD machine including supply of HDPE pipe as per IS 4984, (Providing parabolic graph included in the scope)	m	100		-
191	Stringing of 232 sqmm AAAC Conductor	Stringing of 232Sqmm AAA Conductor	m	390000		-
192	Sply&Inst-25mm HDPE Pipe	Supply, Installation and fixing of HDPE Pipe - 25mm dia for Wire/Cable protection. Scope also include supply and erection of all required accessories for fixing it with pole/structure such as GI cleat(12X3 mm)at every interval of 1.5 mtr ,Nut & Bolt ,sealing of the pipe ,collar fixing.	М	100		-
193	Earth Work-excluding Hard Rock	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead up to 50 m and lift up to 1.5 m, as directed by Engineer-in-charge. Note- All kind of excavation work with different size for plinth, Structure & other works will be considered under this line items. All kinds of soil (excluding hard rock)	M3	100		-
194	Earth Work-Hard Rock	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in charge. Note- All kind of excavation work with different size for plinth, Structure & other works will be considered under this line items Hard rock.	M3	200		-
195	Gravel spreading over Bay/GSS/other	Supplying, Laying, spreading and compacting with hand roller stone aggregate of specified sizes: 63 mm to 45 mm size stone aggregate to WBM specifications in uniform thickness, hand picking to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required densityScope of work also includes of jungle such as grass,small tree,plant etc.	M3	700		-
196	Dismantle-Steel work	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.	Kg	500		-
197	SITC-33KV Post Insulator with H/W Fit	SITC Installation of 33kV Post Insulator with hardware fitting as per TP Western Orissa Distribution Co. Ltd. specification/drawing	EA	30		-
198	Sply&Inst-Gland-1C above- 300-400 sqmm	Supply and erection of double Compression Flameproof Type Glanding for armoured cable 1C Above 300 to 400 SQMM including making hole in base plate and dressing of cable along with Vermin proofing properly .supply to be done as per TPWODL spec & approved Make Dowels	EA	50		-
199	Sply&Fix AL Lugs-120-150 sqmm	Supply of AL Lugs suitable for 120- 150 sq mm cable/conductor, Crimping with cable and Fixing/connecting as per TPWODL Specification .Scope also include supply and erection of PVC Tape as per voltage requirement.	EA	550		-
200	Boundary Wall Fencing	Fencing With G.I. barbed wire, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire.	М	1000		-
201	Dismantle-11/33 KV GO/AB Switch	Dismantling of 11 kV /33KV GO/AB Switch/Isolator/DD fuse/fuse set including removal of all Electric/Earth connections, loading, transportation, unloading and staking at a proper place in safe position/BA site store(Note Set =Three phase).	SET	150		-
202	Dismantle-G.I.Wire 7/8- 7/10 SWG	Dismantling of the G.I.Wire 7/8,7/10 SWG etc. as per standard practice of TP Western Orissa Distribution Co. Ltd. including recoiling loading, transportation, unloading and staking at a proper place in safe position/BA site store	KG	1500		
203	Dismantle-33 KV XLPE/PVC Cable	Dismantling of varous size of XLPE/PVC Cable with of all sizes(1C/3C/4C) upto 33KV from over head line,cable tranches,mounting aat pole or other palaces, etc. recoiling, loading,transportation, unloading and staking at a proper place in safe position/BA site	м	100		-

					UNIT	
SI. No.	Conductor	Long Text	UOM	Qty	PRICE (INR)	Amount (In Rs.
204	Earth chamber-Inst. of earthing pipe	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 of GI flat around pipe. BA has to supply of charcoal.etc with brick masanory (1:5), PCC (1:4:8) d with cast iron cover. size of the pit 450mmx450mmx600mm depth as per direction of engineer in charge. Supply of GI Pipe 40mm dia 3Mtr long is in scope of TPWODL.The installation will be done as per TPWODL drawing	ea	500		-
205	Erect-Insulated Conductor- 70-232 sqmm	Stringing of 11KV & 33KV Insulated covered conductor size 70sqmm to 232sqmm including Fixing & tightening of cover conductor.BA has to provide all necessary manpower , Tool & Tackle	м	100		-
206	Jointing Services incl. JT.Kit Supply	BA will supply all necessary tools, Skilled jointer for making h Jointing excluding excavation & Termination Kit as per TPWODLStandards. This Line item is only for providing jointer and making joint by using suitable equipments by BA.	EA	50		-
207	SITC-HDPE 160mm PN4 PE80-HDD	Supply & Laying of PIPE HDPE 160 MM Dia PN4, PE 80 through HDD method .Scope of work also includes making Trenchless ducts with 160 mm Dia HDPE pipe casing using HDD machine including supply of HDPE pipe as per IS 4984, (Providing parabolic graph included in the scope).Scope of work includes laying of Cable in the HDPE pipe, making joint /coupling and other work to complete the job.	м	50		-
208	11/33KV touch proof Termination Kit	Additiona rate to provide the all necessary tools, Skilled jointer for making the Jointing for touch proof Termination Kit (11/ 33KV XLPE cable size upto 1CX 1000Sqmm & 3CX400 Sqmm) as per TPWODLStandards. This Line item is applicable for making touch proof jointing Termination.Note: This additional amount will be paid with the existing termination Jointing services rate line items available in existing RC for touchproof only.	EA	20		-
209	Making & Fixing of Guarding	Erection(Sagging/Stringing/Drawing) of GI wire 8 SWG for Guarding and Bracing including making of connection hooks etc. as per TP Western Odisha Distribution Co. Ltd. specification/drawing	М	13125		-
210	Sply-11KV Disc Insulator (70-90 KN)	Supply of 11KV Disc Insulator (70-90 KN)	EA	1500		-
211	Inst-11KV Disc Insulator (70-90 KN)	Installation of 11KV Disc Insulator (70-90 KN)	EA	1500		-
212	Sply-H/W for Disc Insulator(70-90 KN)	Supply of Hardware for Disc Insulator (70-90 KN)	EA	1400		-
213	Inst-H/W for Disc Insulator(70-90 KN)	Installation of Hardware for Disc Insulator (70-90 KN)	EA	1400		-
214	Sply-33KV Disc Insulator (90-120 KN)	Supply of 33KV Disc Insulator (90-120 KN)	EA	1000		-
215	Inst-33KV Disc Insulator (90-120 KN)	Installation of 33KV Disc Insulator (90-120 KN)	EA	1000		-
216	Sply-H/W for Disc Insulator(90-120 KN)	Supply of Hardware for Disc Insulator (90-120 KN)	EA	900		-
217	Inst-H/W for Disc Insulator(90-120 KN)	Installation of Hardware for Disc Insulator (90-120 KN)	EA	900		-
218	Sply&Ter-33KV ID/OD (3C x 400 SQMM)	Suppply and Termination of the ID/OD Termination kit for 33KV cable of 3Cx400SQMM XLPE size. BA will supply all necessary tools, Skilled jointer for the activity excludin excavation as per TPWODLStandards.Approved Make- Raychem & 3M.	EA	30		-
219	Sply&Inst-8/10/12 W LTDB/SMC	BA will Supply & install LTDB box in pole for releasing power supply to LT 1ph & 3ph consumer.Scope includes provide necessary GI clamp arrangement for fixing LTDB to pole.Termination of incoming & outgoing cable in LT Dist Box	EA	6000		-
220	Inst&Fab-Various Steel Channel/Angle	Installation and Fabrication of various GI MS channel and angle on pole, DP structure etc as per TPWODL specifications	KG	500		-
221	Sply&Inst-Insulated H/W Fit-100sqmm	Supply and Installation of Insulated Hardware fittings for 11 KV 100 mm sq. Insulated Covered AAA Conductor	EA	100		-
222	Sply&Inst-Insulated H/W Fit-120-232sqmm	Supply and Installation of Insulated Hardware fittings for 33 KV 120-232 mm sq. Insulated Covered AAA Conductor	EA	100		-
223	Inst-Insulated H/W Fit- 100sqmm AAAC	Installation of Insulated Hardware fittings for 11 KV 100 mm sq. Insulated Covered AAA Conductor	EA	100		-
224	Erect-11KV Insulated Cond.(100-148 sqmm)	Stringing of AAAC covered Conductor 11KV(100 sqmm - 148 sqmm).	М	100		-
225	ITC of 11/0.433KV 25KVA DTR	Installation, Testing and Commissioning of 11/0.4kV, 25kVA 3-Phase Distribution Transformer on existing structure as per TP Western Orissa Distribution Co. Ltd. specification including loading, unloading, Testing of Transformer at Site. shifting/transportation from site /tent. Scope of work includes jumpering/connection at HT and LT side & Earthing Connections.	EA	150		-
226	ITC-OD LTDB for 11/0.4KV 100KVA TRF	Installation, Testing & Comissioning of Outdoor Type LT Distribution Box with MCCB for 11/0.4kV,100kVA Three Phase Transformer on existing structure as per TP Western Orissa Distribution Co. Ltd. specification	EA	165		-
227	ITC-OD LTDB for 11/0.4KV 63KVA TRF	Installation, Testing & Comissioning of Outdoor Type LT Distribution Box with MCCB for 11/0.4kV,63kVA Three Phase Transformer on existing structure as per TP Western Orissa Distribution Co. Ltd. specification	EA	530		-
228	ITC-OD LTDB for 11/0.4KV 25KVA TRF	Installation, Testing & Comissioning of Outdoor Type LT Distribution Box with MCCB for 11/0.4kV,25kVA Three Phase Transformer on existing structure as per TP Western Orissa Distribution Co. Ltd. specification	EA	150		-
229	ITC of 11/0.433KV 315KVA DTR	Installation, Testing and Commissioning of 11/0.4kV, 315kVA 3-Phase Distribution Transformer on existing structure as per TP Western Orissa Distribution Co. Ltd. specification including jumpering & earthing connection/connection at HT and LT side,loading, unloading, shifting/transportation from site /tent upto15KM. Scope of work includes jumpering/connection at HT and LT side & Earthing Connections.	EA	12		-
230	ITC of 11/0.433KV 63KVA DTR	Installation, Testing and Commissioning of 11/0.4kV, 63kVA 3-Phase Distribution Transformer on existing structure as per TP Western Orissa Distribution Co. Ltd. specification including loading, unloading, Testing of Transformer at Site. shifting/transportation from site /tent. Scope of work includes jumpering/connection at HT and LT side & Earthing Connections.	EA	530		-
231	Security of 33KV Line(4- 30KM)	Security of Installed equipment at 33 KV site. (4KM -30KM)	MON	250		-
232	Security of LT&11KV Line(4-20KM)	Security of Installed equipment at LT & 11 KV site. (4KM -20KM)	MON	500		-
					mount (Rs)	-

	List of Materials TS Required for CMPDP
SI No	List Of materials
1	11 KV V Cross Arm,
2	11 KV Back Clamp
3	11 KV F Clamp
4	11 KV Top Bracket suitable for Joist Pole
5	11 KV Polymeric Insulator
6	11 Disc Insulator 70 KN / 90 KN
7	H/W Fitting 70 / 90 KN
8	100x50x6 mm Channel (GI)
9	75x40x6 mm Channel (GI)
10	50x50x6 mm Angel (GI)
11	11 KV HT Stay Set
12	HT Stay Clamp
13	11 KV HT Stay Insulator
14	7/10 SWG Stay wire
15	33 KV V Cross Arm,
16	33 KV Back Clamp
17	33 KV F Clamp
18	33 KV Top Bracket suitable for Joist Pole
19	33 KV 10 KN Polymeric Insulator
20	33 KV 90 KN / 120 KN Disc Insulator
21	120 KN / 90 KN H/W fitting
22	33 KV HT Stay Set
23	33 KV HT Insulator
24	HT Stay Clamp
25	7/8 SWG Stay Wire
	GI pole Clamp (50X8 flat) for fixing Eyehook.9Mtr
26	PSC
27	Suspension clamp with EYE HOOK or Suspension Clamp with Bracket
27	Dead end clamp
28	LT Stay Set
30	LT Stay Insulator
30	LT Stay Insulation
31	7/12 SWG Stay wire
	Insulated Piercing Connector Type A suitable for
33	Main -50 to 150 sq mm & Branch 50 to 150Sqmm
	LTDB box for service connection / SMC Box for
34	Service Connection
35	GI Nut, Bolts and Washer
	Assceories for 33 KV & 11 KV Insulated Covered
36	Conductor

Note :Major Material such as RSJ pole, PSC pole ,Conductor ,DTR, Isolator, AB switch ,cable and AB cable will be provided by TPWODL