



## Corrigendum- I

TPNODL/OT/2021-22/046 Dtd.31.07.2021

**Rate Contract for 33kV Bay Extension along with Civil Work in PAN TPNODL**

Dated 06<sup>th</sup> August 2021

### Revised Schedule of Items

### Annexure-I Schedule of Items

S. No.	Short Desc.	Item Desc.	UO M	QTY	Basic Unit Price (Rs.)	GST	FOR All Incl. Unit Price (Rs.)	Amount (Rs.)	SAC Code
1	VCB	ITC including loading, unloading & transportation of 36KV, 800A, 25KA for 3 seconds, 3-Pole, Outdoor type Vacuum Circuit breaker along with supporting structures, bi-metallic clamps, permanent maintenance platform, marshalling box etc. as per TPNODL specification.	NOS	50					
2	VCB	ITC including loading, unloading & transportation of 12 KV, 800A, 25KA for 3 seconds, 3-Pole, Outdoor type Vacuum Circuit breaker along with supporting structures, bi-metallic clamps, permanent maintenance platform, marshalling box etc. as per TPNODL specification.	NOS	50					
3	CT	ITC including loading, unloading & transportation of 36kV, 1-Phase, outdoor type Current Transformers along with junction box (1 no junction box for 3 no of 1-phase CTs), Jumpers, earthing, supporting structures, bi-metallic clamps, permanent maintenance platform etc. as per TPNODL specification.	EA	100					
4	CT	ITC including loading, unloading & transportation of 12kV, 1-Phase, outdoor type Current Transformers along with junction box (1 no junction box for 3 no of 1-phase CTs), Jumpers, earthing, supporting structures, bi-metallic clamps, permanent maintenance platform etc. as per TPNODL specification.	EA	100					

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5	PT	ITC including loading , unloading & transportation of 36 KV, 1-Phase, outdoor type Potential Transformer along with junction box (1 no junction box for 3 no of 1-phase PTs), bi-metallic clamp and required accessories etc., complete as per technical specifications and scope of the works as per TPNODL specification	EA	50					
6	PT	ITC including loading , unloading & transportation of 12 KV, 1-Phase, outdoor type Potential Transformer along with junction box (1 no junction box for 3 no of 1-phase PTs), bi-metallic clamp and required accessories etc., complete as per technical specifications and scope of the works as per TPNODL specification	EA	30					
7	CT PT	Installation, Testing and Commissioning of 11kV CT PT Unit on existing structure as per TPNODL specification including installation of Pipe, loading, unloading, shifting/transportation from site/tent. Scope of work excludes earthing, jumpering/connection	NOS	50					
8	ISO	Installation, testing and commissioning including loading , unloading & transportation of 36KV, 1250/800/400A, 25KA for 3 seconds, 3-ph double break centre rotating type (DBCR), Gang Operated Isolator with Earth Switch along with Support Insulators, Operating Mechanism with pad lock, Base Channel down Pipe and all required accessories complete as per TPNODL specification.	SET	50					
9	ISO	Installation, testing and commissioning including loading , unloading & transportation of 36KV, 1250/800/400A, 25KA for 3 seconds, 3-ph double break centre rotating type (DBCR), Gang Operated Isolator along with Support Insulators, Operating Mechanism with Pad Lock, Base Channel down Pipe and all required accessories complete as per TPNODL specification.	SET	50					
10	ISO	Installation, testing and commissioning including loading , unloading & transportation of 12 KV, 400A/200A, 25kA for 3 seconds, 3-ph double break centre rotating type (DBCR), Gang Operated Isolator with Earth Switch along with Support Insulators, Operating Mechanism manually, Base Channel, down Pipe and all required accessories complete as per TPNODL specification for outgoing feeder.	SET	50					
11	ISO	Installation, testing and commissioning including loading , unloading & transportation of 12 KV, 400A/200A, 25kA for 3 seconds, 3-ph double break centre rotating type (DBCR), Gang Operated Isolator along with Support Insulators, Operating Mechanism manually, Base Channel, down Pipe and all required accessories complete as per TPNODL specification for outgoing feeder.	SET	50					

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12	ABS	Installation, testing and commissioning including loading, unloading & transportation of 33 kV, 400Amp 3- Phase AB/G.O Switch on existing structure including alignment etc. as per TPNODL specification.	SET	100					
13	ABS	Installation, testing and commissioning including loading, unloading & transportation of 33 kV, 200 Amp 3- Phase AB/G.O Switch on existing structure including alignment etc. as per TPNODL specification.	SET	50					
14	ABS	Installation, testing and commissioning including loading, unloading & transportation of 11 kV, 400Amp 3- Phase AB/G.O Switch on existing structure including alignment etc. as per TPNODL specification.	SET	250					
15	ABS	Installation, testing and commissioning including loading, unloading & transportation of 11 kV ,200Amp 3- Phase AB/G.O Switch on existing structure including alignment etc. as per as per TPNODL specification.	SET	452					
16	Post Insulator	Supply, Installation ,testing & commissioning of 36kV Post Insulator including jumpering/connections.	EA	20					
17	Post Insulator	Supply, Installation ,testing & commissioning of 12kV Post Insulator including jumpering/connections.	EA	20					
18	Spacer	Installation ,testing & commissioning of Spacers (Rigid & Flexible) as per TATA Power-DDL standard drawing and project in-charge instructions	EA	150					
19	Stringing	Stringing of ACSR conductor and its connection with bus ACSR conductor and those equipment which are not covered under other line items of tender BoM.	M	4125					
20	Clamp	ITC of Pad type clamp for 7/3.15 sq.mm. shield wire to 50 x 6 mm GI Flat as per TATA Power-DDL specifications	EA	850					
21	Clamp	ITC of Cleat type clamp for 7/3.15 sq.mm. shield wire as per TATA Power-DDL specifications	EA	42					
22	Bus Bar	Supply, Erection, Testing & Commissioning of Copper Bus Bar Arrangement of over Transformers on 11KV side with supporting insulator ,BPI, Raychem BPTM insulation sleeves with connections.	ST	64					
23	Bus Bar	Supply, Erection, Testing & Commissioning of Copper Bus Bar Arrangement of over Transformers on 33KV side with supporting insulator ,BPI, Raychem BPTM insulation sleeves with connections.	ST	64					
24	Fire Fighting Items	Supply, Installation, Testing and Commissioning of Optical/ionization/Heat - Type Fire detectors as per IS 2189. Approved Make : System sensor / Apollo / Edward	EA	42					

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25	Fire Fighting Items	Supply, Installation, Testing and Commissioning of Manual Call box made out of 16 SWG CRCA sheet with chain and hammer as per IS 2189 Approved Make : System sensor / Apollo / Edward / Agni Suraksha	EA	8					
26	Fire Fighting Items	Supply, Installation, Testing and Commissioning of (Medium Intensity) Electronic Hooters made out of 16 SWG CRCA sheet with (P.O. Red) color powder coating as per IS 2189 Approved Make : System sensor / Apollo / Edward / Agni Suraksha	EA	10					
27	Fire Fighting Items	Supply, Installation, Testing and Commissioning of Response indicator as per IS 2189 Approved Make : System sensor / Apollo / Edward / Agni Suraksha	EA	40					
28	Cable	Supply , Installation, Testing and Commissioning of 2X1.5 mm Core / Armored cable Red colored (ISI Marked) (Red Colored) Approved Make : Gloster	M	1600					
29	Fire Barriers	Supply, Installation, Testing & Commissioning of Fire barriers at cable entry/exit points in Control room building or mid way of the trenches as per TATA Power-DDL project incharge instructions. 4 hrs fire rating is required. Approved makes are CTR/Stanvac/3M.	M2	150					
30	Safety Item	Supply & Installation ,testing & commissioning of All safety items like First aid box - 1 no., safety Gloves - 2 pair., Safety Display board / Warning signs - 1 lot, accident prevention chart - 1 nos., shock treatment chart - 2 no., Grid SLD on wooden board- 1 no. on A0 size, (For complete grid)	EA	2					
31	Safety Item	Supply & Installation ,testing & commissioning of All safety items like safety Gloves - 2 pair., updated Grid SLD on wooden board- 1 no. on A0 size, (for PTR augmentation Job/PTR Bay addition/line bay extension)	EA	4					
32	Safety Item	Supply & Installation ,testing & commissioning of Sand Bucket along with stand with canopy (8 buckets)	EA	11					
33	Terminations	Supply & Installation ,testing & commissioning of Double compression glands and terminations (including ferruling, suitable Cu Lugs to meet the system requirements) for 1100V grade PVC insulated multicore Copper stranded conductor control cables of the various sizes less than 12 mm	EA	100					
34	Terminations	Supply, Installation Testing & Commissioning of Double compression glands and terminations (including ferruling, suitable Cu Lugs to meet the system requirements) for 1100V grade PVC insulated multicore Copper stranded conductor control cables of the sizes (diameter between 12mm to 18mm )	EA	1500					

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35	Terminations	Supply, Installation Testing & Commissioning of Double compression glands and terminations (including ferruling, suitable Cu Lugs to meet the system requirements) for 1100V grade PVC insulated multicore Copper stranded conductor control cables of the sizes (diameter between 18mm to 24mm )	EA	1500					
36	Terminations	Supply, Installation Testing & Commissioning of Double compression glands and terminations (including ferruling, suitable Cu Lugs to meet the system requirements) for 1100V grade PVC insulated multicore Copper stranded conductor control cables of the sizes (diameter more than 24mm)	EA	800					
37	Meters	Supply, Installation ,testing & commissioning of astro timer control for lighting arrangement. This item shall be exeduted as per TATA Power-DDL Engineering In-charge.	EA	10					
38	High Mast	Supply, Installation ,testing & commissioning of High Mast (motorised) 16m as per TATA Power-DDL specifications. Approved Makes : Bajaj/Philips/Surya. This item includes SITC of all required accesseries inclduing LED lights & structure etc.	EA	11					
39	MCB	Supply, Installation ,testing & commissioning of IP 54 protected 150A three phase industrial socket with 150A TPNMCB for oil filtration machine with 3x6.0 sqmm PVC insulated copper conductor stranded insulated wires & 2x1.5sqmm Stranded Green earth wire in recessed and/or on surface 40mm dia GI conduit including chasing of wall, filling of chases etc complete in all respect.	EA	11					
40	Light	Supply, Installation ,testing & commissioning of LED based Post top lantern with illumination parameters same as of 70W HPSV with control gear	EA	11					
41	Light	Supply, Installation ,testing & commissioning of Steel tubular pole 9 mtr long SP -33 with base plate & cross arm 1.5 meter long with arrangement for fixing the outdoor duty LED luminaire equivalent to 250 W HPSV fitting with suitable junction box	EA	5					
42	Light	Supply, Installation ,testing & commissioning of industrial type Control room lighting with the following fittings suspended from ceiling with 19mm dia GI pipe including all accessories:- LED luminaire 2x36/40W industrial type fitting with LED luminaire..	EA	50					
43	Light	Supply, Installation ,testing & commissioning of flame proof fluorescent fitting with the following fittings suspended from ceiling with 19mm dia GI pipe including all accessories:- LED luminaire 2x36/40W flame proof acid proof fitting with LED lamp for Battery Room/Cable cellar room.	EA	11					

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44	Light	Supply, Installation ,testing & commissioning of Decorative type Control room lighting with the following fittings suspended/recessed from ceiling with 19mm dia GI pipe (in case of suspended) with all accessories:- 2x36/40W Decorative type LED fitting with lamp of required shape (suitable in case of false ceiling also )	EA	20					
45	Light	Supply, Installation ,testing & commissioning of industrial type Control room lighting with the following fittings suspended from ceiling with 19mm dia GI pipe including all accessories:- LED luminaire 2x16/18W industrial type fitting with LED luminaire.	EA	50					
46	Light	Supply, Installation ,testing & commissioning Installation of LED 120W luminarie with required fittings and accessories as per TATA Power-DDL specifications.	EA	40					
47	Light	SITC of ceiling fan, 48 " as per TATA Power-DDL project in-charge instructions. Approved Make : Crompton/Bajaj/Havells	EA	18					
48	Exhaust Fan	Supply, Installation ,testing & commissioning of industrial type continuous heavy duty Exhaust fan with louvers, 18 inches including auto-changeover facility. Approved make: Bajaj/Crompton/Havells	EA	30					
49	Inverter	Supply, Installation ,testing & commissioning of min. 1000VA Inverter System including suitable wiring, maintenance free VRLA Battery (24V), Stand etc for complete system for providing AC supply till minimum 8 hrs. It includes connection of inverter to nearest power point. Approved make : , Luminous, Microtek, Sukam	EA	10					
50	Street Lighting	Supply, Installation ,testing & commissioning of AC 415V 400A Street Light panel AC 415V, 400A ,50 KA for 1 Sec cubicle type Outdoor, Plinth mounted, Street light panel as per specification comprising of the following: Incomer 63A TTPNMCCB -1 No. Metering with RYB indicating lamp LED type, Voltmeter with selector switch, ammeter with selector switch , suitable CT's & 2A TPNMCB for backup protection of voltmeter & indication light. 1 No. 70A FP CONTACTOR - 1 No. 24 Hr timer for auto Operation Auto manual selector switch , I set push button for on/off operation. Outgoing feeder 25A TPNMCB 4 Nos. 63A Power industrial socket with "C" series TPNMCB for Protection & provision of up to 3.5c X 50 sqmm Al Arm cable Termination as per TATA Power-DDL specifications.	EA	4					
51	Street Lighting	Supply, Installation ,testing & commissioning of IP 54 Lighting Distribution Board for control room lighting control comprising of one no, incomer 63 A TPN MCB & 18 no. outgoing as 10-32A SP MCB.	EA	10					

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52	Street Lighting	Supply, Installation ,testing & commissioning of Power Distribution Board for control room air conditioner comprising of one no, incomer 63 A TPN MCB & 6 no. out going as 32A TPN MCB. With auto changeover for Air conditioner	EA	10					
53	Street Lighting	Supply, Installation ,testing & commissioning of IP54 Lighting junction box for each Light at tower suitable for out door installation comprising of 8 no. CBT M 4 type terminal connector for light connections or loop in / loop out cable	EA	15					
54	Wirin g	Supply, Installation ,testing & commissioning of One light point by One Switch wiring of above light point, with 1.5 sq.mm PVC insulated copper conductor single core stranded wires in GI/PVC conduit with 1.0 sq mm PVC insulated Stranded Green earth wire in recessed and/or on surface including chasing of wall, filling with cement mortar etc complete in all respect.	EA	20					
55	Wirin g	Supply, Installation ,testing & commissioning of Two light point by One Switch wiring of above light point, with 1.5 sq.mm PVC insulated copper conductor single core stranded wires in GI/PVC conduit with 1.0 sq mm PVC insulated Stranded Green earth wire in recessed and/or on surface including chasing of wall, filling with cement mortar etc complete in all respect.	EA	25					
56	Wirin g	Supply, Installation ,testing & commissioning of Three light point by One switch wiring of above light point, with 1.5 sq.mm PVC insulated copper conductor single core stranded wires in GI/PVC conduit with 1.0 sq mm PVC insulated Stranded Green earth wire in recessed and/or on surface including chasing of wall, filling with cement mortar etc complete in all respect.	EA	25					
57	Wirin g	Supply, Installation ,testing & commissioning of Exhaust fan point wiring of above exhaust fan point, with 1.5 sq.mm PVC insulated copper conductor single core stranded wires in GI/PVC conduit with 1.0 sq mm PVC insulated Stranded Green earth wire in recessed and/or on surface including chasing of wall, filling with cement mortar etc complete in all respect.	EA	30					
58	Wirin g	Supply, installation , testing & commissioning Flood light point -2.5 sqmm cu wiring wiring of above light point, with 2.5 sq.mm PVC insulated copper conductor single core stranded wires in GI/PVC conduit with 1.0 sq mm PVC insulated Stranded Green earth wire in recessed and/or on surface including chasing of wall, filling with cement mortar etc complete in all respect.	EA	30					

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59	Wirin g	Supply, Installation ,testing & commissioning of wiring of General power point with 4.0 sq.mm PVC insulated copper conductor single core stranded wires in GI/pVC conduit with 2.5 sq mm PVC insulated Stranded Green earth wire in recessed and/or on surface including chasing of wall, filling of chases etc com	EA	15					
60	Wirin g	Supply, Installation ,testing & commissioning of 32A three phase industrial socket with 32A TPNMCB air conditioning power point with 3x6.0 sqmm PVC insulated copper conductor stranded insulated wires & 2x1.5sqmm Stranded Green earth wire in recessed and/or on surface 40mm dia GI/PVC conduit including chasing of wall, filling of chases etc complete in all respect.	EA	20					
61	Struct ure	Supply, Installation/erecting ,testing & commissioning of GI structural steel material(for all tower, beam and equipments)	TON	220					
62	Dism antlin g	Dismantling of Equipment like CT, PT, LA & Isolator Loading, Transportation within 30 Kms, Unloading of same if Required. Insurance during transportation shall be in TATA Power-DDL scope. Dismantling scope also includes the testing of healthiness of the equipment before handed over to TATA Power-DDL engineer In charge	EA	43					
63	Dism antlin g	Dismantling of Equipment like CT, PT, LA & Isolator as per TATA Power-DDL Project in-charge instructions.	EA	18					
64	Safet y Item	supply and Installation of Fire Extinguishers CO2 type 5.2 Kg for switch gear room	EA	22					
65	Safet y Item	supply and Installation of Fire Extinguishers Dry powder chemical type 25 kg. For power transformer	EA	28					
66	Safet y Item	supply and Installation of Fire Extinguishers CO2 type for Control room and Engineers room	EA	18					
67	Safet y Item	supply and Installation of ISI marked Fire Extinguishers -ABC Type 5 Kg for Switch room and other locations (IS:13849) Approved Make : Ceasefire / Minimax / Safex	EA	15					
68	Painti ng	Painting of Power transformer after thorough cleaning and using one coat of red oxide primer and two coats of superior quality light grey paint (shade 631 of IS-5) (Supply of Paint shall be in bidder scope).up to 12.5 MVA	EA	3					
69	Dism antlin g	Dismantling of distribution transformer (11/.415kV) including accessories, structure, jumper/connections etc. as per directions of TATA Power-DDL engineer in charge. This item excludes the transportation, loading.	EA	2					



70	Dismantling	Dismantling of distribution transformer (11/.415kV) including accessories, structure, jumper/connections etc. as per directions of TATA Power-DDL engineer in charge. Including loading, unloading, shifting/transportation upto 30km to TATA Power-DDL site/store.	EA	2					
71	Steel Pipe	SITC of flexible steel pipe for providing extra safety to control cable sizes upto 30 mm diameter.	M	100					
72	Battery & Charger	SITC including loading, unloading & transportation of 48V, 100 AH maintenance free VRLA Battery (set 4 no's of 12V) as per TPNODL specification.	SET	20					
73	Battery & Charger	SITC including loading, unloading & transportation of 48V, 100 AH maintenance free VRLA Battery (set 24 no's of 2V) as per TPNODL specification.	SET	20					
74	Battery & Charger	SITC including loading, unloading & transportation of 24V, 100 AH maintenance free VRLA Battery (set 2 no's of 12V) as per TPNODL specification.	SET	20					
75	Battery & Charger	SITC including loading, unloading & transportation of 24V, 100 AH maintenance free VRLA Battery (set 12 no's of 2V) as per TPNODL specification.	SET	20					
76	Battery & Charger	SITC including loading, unloading & transportation of 24V, 100 A SMPS based Float cum Boost Charger (SCADA compatible) as per TPNODL specification.	NOS	20					
77	Battery & Charger	SITC including loading, unloading & transportation of 48V, 100 A SMPS based Float cum Boost Charger (SCADA compatible) as per TPNODL specification.	NOS	20					
78	Battery & Charger	ITC including loading, unloading & transportation of 24V, 100 A SMPS based Float cum Boost Charger (SCADA compatible) as per TPNODL specification.	NOS	20					
79	Battery & Charger	ITC including loading, unloading & transportation of 48V, 100 A SMPS based Float cum Boost Charger (SCADA compatible) as per TPNODL specification.	NOS	20					
80	Battery & Charger	ITC including loading, unloading & transportation of 24V, 100 AH maintenance free VRLA Battery (set 12 no's of 2V) as per TPNODL specification.	SET	20					
81	Battery & Charger	ITC including loading, unloading & transportation of 24V, 100 A SMPS based Float cum Boost Charger (SCADA compatible) as per TPNODL specification.	NOS	20					

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82	RSJ	ITC including loading , unloading & transportation (up to 10 KM) of 150X 150mm RS joist(MS) (13 Meter long)(34.6 kg Per meter)(Each 449.8kg) Pole [Holes Provision - In Top (2 for Top channel) At Bottom (1 for Earthing Fittings)] including of excavation, supply & fixing of base plate(300x300x12mm),Supply & fixing of stiffner-4nos (150x60x6mm) fixing of clamps ,iron fittings, steel fabricated work(Angle installation-Cleat for Pole Base , refilling, flooding with water, ramming/compacting of foundation as per TPNODL specifications including removal & disposal of malba as per instruction of EIC. The scope of work include providing & laying of cement concrete, and Painting of Pole (In Black & Yellow Strips/Zebra)	NOS	1500					
83	RSJ	ITC including loading , unloading & transportation (up to 10 Km) of 150X 150mm RS joist(MS) (11 Mtr long) (34.6 kg Per meter) (Each 380.6kg) Pole [Holes Provision - In Top (2 for Top channel) At Bottom (1 for Earthing Fittings)] including of excavation, supply & fixing of base plate(300x300x12mm),Supply & fixing of stiffner-4nos (150x60x6mm) fixing of clamps ,iron fittings, steel fabricated work(Angle installation-Cleat for Pole Base , refilling, flooding with water, ramming/compacting of foundation as per TPNODL specifications including removal & disposal of malba as per instruction of EIC. The scope of work include providing & laying of cement concrete, and Painting of Pole (In Black & Yellow Strips/Zebra)	NOS	4400					
84	RSJ	ITC including loading , unloading & transportation (upto 10 KM) of 150X 150mm RS joist (GI) (13 Mtr long)(34.6 kg Per meter)(Each 449.8kg) Pole [Holes Provision - In Top (2 for Top channel) At Bottom (1 for Earthing Fittings)] including of excavation, supply & fixing of base plate(300x300x12mm),supply & fixing of stiffner-4Nos (150x60x6mm) fixing of clamps ,iron fittings, steel fabricated work(Angle installation-Cleat for Pole Base , refilling, flooding with water, ramming/compacting of foundation as per TPNODL specifications including removal & disposal of malba as per instruction of EIC. The scope of work include providing & laying of cement concrete, and Painting of Pole (In Black & Yellow Strips/Zebra)	NOS	1000					

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85	RSJ	ITC including loading , unloading & transportation (upto 10 KM) of 150X 150mm GI RS joist (11 Mtr long) (34.6 kg Per meter) (Each 380.6kg) Pole [Holes Provision - In Top (2 for Top channel) At Bottom (1 for Earthing Fittings)] including of excavation, supply & fixing of base plate(300x300x12mm),supply & fixing of stiffner-4nos (150x60x6mm) fixing of clamps ,iron fittings, steel fabricated work(Angle installation-Cleat for Pole Base , refilling, flooding with water, ramming/compacting of foundation as per TPNODL specifications including removal & disposal of malba as per instruction of EIC. The scope of work include providing & laying of cement concrete, and Painting of Pole (In Black & Yellow Strips/Zebra)	NOS	2000					
86	H- Pole	SITC including loading , unloading & transportation (upto 10 KM) of H-Pole (11 Mtr long) (The H poles shall be constructed by joining two channels (200 X 75 X 7.5) face to face by means of 200 X 270 mm, 6 mm thick plate at a spacing of 900mm c/c.m] including of excavation, supply & fixing of base plate(300x300x12mm),supply & fixing of stiffner-4nos (150x60x6mm) fixing of clamps ,iron fittings, steel fabricated work(Angle installation-Cleat for Pole Base , refilling, flooding with water, ramming/compacting of foundation as per TPNODL specifications including removal & disposal of malba as per instruction of EIC. The scope of work include providing & laying of cement concrete, and Painting of Pole (In Black & Yellow Strips/Zebra)	NOS	1000					
87	Pole	Rectification/Straightening of tilted pole in all respect including New Gen Hydra/ Crane as the case may be where outage will be availed to work. Scope of work include the supply of manpower and machine to straightening the pole.	NOS	1000					
88	Cond uctor	Stringing, Testing and commissioning including loading, unloading & transportation of 232 sqmm All Aluminium Conductor (AAAC) in 33 KV OH Line and 33/11 KV PSS as per TPNODL specification including Jumpering & making of connection hooks etc.	MET ER	39014 5					
89	Cond uctor	Stringing, Installation ,Testing and commissioning including loading , unloading & transportation of 148 sqmm All Aluminium Conductor (AAAC) in 33 KV OH Line as per TPNODL specification including Jumpering & making of connection hooks etc.	MET ER	17922 0					
90	Cond uctor	Stringing, Installation ,Testing and commissioning including loading , unloading & transportation of 125 sqmm All Aluminium Conductor (AAAC) in OH Line as per TPNODL specification including Jumpering & making of connection hooks etc.	MET ER	36510					

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91	Conductor	Stringing, Installation ,Testing and commissioning including loading , unloading & transportation of 100 sqmm All Aluminium Conductor (AAAC) in 11 KV OH Line & jumpering of equipment with wedge connector as per TPNODL specification including Jumpering & making of connection hooks etc.	METER	669330					
92	Conductor	Stringing, Installation ,Testing and commissioning including loading , unloading & transportation of 232 sqmm AAAC (AL-7) XLPE Covered Conductor 11 KV OH Line & jumpering of equipment with wedge connector as per TPNODL specification including Jumpering & making of connection hooks etc.	METER	5000					
93	Conductor	Stringing, Installation ,Testing and commissioning including loading , unloading & transportation of 80 sqmm All Aluminium Conductor (AAAC) as per TPNODL specification including Jumpering with wedge connector & making of connection hooks etc..	METER	5000					
94	Conductor	Stringing, Installation ,Testing and commissioning including loading , unloading & transportation of 185 sqmm AAAC (AL-7) XLPE Covered Conductor 11 KV OH Line & jumpering of equipment with wedge connector as per TPNODL specification including Jumpering & making of connection hooks etc.	METER	5000					
95	Conductor	Stringing, Installation ,Testing and commissioning including loading , unloading & transportation of 150 sqmm AAAC (AL-7) XLPE Covered Conductor 11 KV OH Line & jumpering of equipment with wedge connector as per TPNODL specification including Jumpering & making of connection hooks etc.	METER	5000					
96	Conductor	Stringing, Installation ,Testing and commissioning including loading , unloading & transportation of AAAC Rabbit 55/61.7 SQ.MM insulated Conductor for Jumpering work with wedge connector of Distribution Transformer & making of connection hooks etc. as per TPNODL specification including Jumpering with wedge connector & making of connection hooks etc.	METER	8126					
97	Conductor accessories	SITC including loading , unloading & transportation of Poly-olyfin Black Sleeve (heat shrinkable) on bare conductor near pin insulator to reduce transient tripping's due to birds electrocution as per TPNODL specification.	METER	2000					
98	Conductor accessories	SITC including loading , unloading & transportation of Mid span compression joints suitable for 232sqmm AAAC conductor as per TPNODL specification.	EA	250					

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99	Conductor accessories	SITC including loading , unloading & transportation of Mid span compression joints suitable for 148sqmm AAAC conductor as per TPNODL specification.	EA	250					
100	Conductor accessories	SITC including loading , unloading & transportation of Mid span compression joints suitable for 125sqmm AAAC conductor as per TPNODL specification.	EA	250					
101	Conductor accessories	SITC including loading , unloading & transportation of Mid span compression joints suitable for 100/80sqmm AAAC conductor as per TPNODL specification.	EA	250					
102	Conductor accessories	SITC including loading , unloading & transportation of PG Clamp for 35/55 mm <sup>2</sup> AAAC (for Jumpering)	EA	250					
103	Conductor accessories	SITC including loading , unloading & transportation of PG Clamp for 80/100 mm <sup>2</sup> AAAC (for Jumpering)	EA	250					
104	Conductor accessories	SITC including loading , unloading & transportation of PG Clamp 3bolted (M12) for suitable for 148sqmm AAAC conductor as per TPNODL specification.	EA	250					
105	Transformer	Installation, testing & commissioning including loading, unloading & transportation of 33/0.4kV, 750 KVA 3-Phase Distribution Transformer along with all accessories on existing structure as per TPNODL specification.	EA	50					
106	Transformer	Installation, testing & commissioning including loading, unloading & transportation of 33/0.4kV, 500 KVA 3-Phase Distribution Transformer along with all accessories on existing structure as per TPNODL specification.	NOS	50					
107	Transformer	Installation, testing & commissioning including loading, unloading & transportation of 33/0.4kV, 250 KVA 3-Phase Distribution Transformer along with all accessories on existing structure as per TPNODL specification.	NOS	50					
108	Transformer	Installation, testing & commissioning including loading, unloading & transportation of 33/0.4kV, 100 KVA 3-Phase Distribution Transformer along with all accessories on existing structure as per TPNODL specification.	NOS	25					
109	PALM Connector	SITC including loading , unloading & transportation of CONNECTOR PALM LT BRASS 500 KVA TRF distribution transformer as per TPNODL specification.	NOS	200					
110	PALM Connector	SITC including loading , unloading & transportation of CONNECTOR PALM LT BRASS 250 KVA TRF distribution transformer as per TPNODL specification.	NOS	200					

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111	PALM Connector	SITC including loading , unloading & transportation of CONNECTOR PALM LT BRASS 1000A for 630KVA distribution transformer as per TPNODL specification.	NOS	200					
112	Cable (HT 33 kv)	Laying(underground),testing,commissioining, transportation from site to site of 33 KV, XLPE, 3X300/400 sqmm Power cable, aluminium conductor, including supply & installation of tagging(at interval of 10 m) etc. as per TPNODL specification. (Scope includes Laying of Cable in existing trench/pipe/tray with supply & laying of cable covers , warning tape with sand & back filling, ramming and levelling of earth as per TPNODL specification including testing of cable. Scope also includes removal and disposal of loose malba above road/ground level as per instruction of EIC )	METER	5000					
113	Cable (HT 33 kv)	Laying(underground),testing,commissioining, including transportation from store and unloading at site of 33 KV, XLPE, 1X300 sqmm Power cable, aluminium conductor, including supply & installation of tagging(at interval of 10 m) etc. as per TPNODL specification. (Scope includes Laying of Cable in existing trench/pipe/tray with supply & laying of cable covers , warning tape with sand & back filling, ramming and levelling of earth as per TPNODL specification including testing of cable. Scope also includes removal and disposal of loose malba above road/ground level as per instruction of EIC )	METER	5000					
114	Cable (HT 11 KV)	Laying(underground),testing,commissioining, transportation from site to site of 11 KV, XLPE, 3X300/3x400 sqmm Power cable , aluminium conductor, including supply & installation of tagging (at interval of 10 m) etc. as per TPNODL specification. (Scope includes Laying of Cable in existing trench with supply & laying of 9 bricks horizontally with sand & back filling, ramming and levelling of earth as per TPNODL specification including testing of cable. Scope also includes removal and disposal of loose malba above road/ground level as per instruction of EIC )	METER	5000					
115	Cable (HT 11 KV)	Laying(underground),testing,commissioining, transportation from site to site of 11 KV, XLPE, 3X240 sqmm Power cable , aluminium conductor, including supply & installation of tagging(at interval of 10 m) etc. as per TPNODL specification. (Scope includes Laying of Cable in existing trench/pipe/tray with supply & laying of 9 bricks horizontally with sand & back filling, ramming and levelling of earth as per TPNODL specification including testing of cable. Scope also includes removal and disposal of loose malba above road/ground level as per instruction of EIC )	METER	5000					

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116	Cable (HT 11 KV)	Laying(underground),testing,commissioining, transportation from site to site of 11 KV, XLPE, 3X185 sqmm Power cable , aluminium conductor, including supply & installation of tagging(at interval of 10 m) etc. as per TPNODL specification. (Scope includes Laying of Cable in existing trench/trench/tray with supply & laying of 9 bricks horizontally with sand & back filling, ramming and levelling of earth as per TPNODL specification including testing of cable. Scope also includes removal and disposal of loose malba above road/ground level as per instruction of EIC )	MET ER	5000					
117	Cable (HT 11 KV)	Laying(underground),testing,commissioining, transportation from site to site of 11 KV, XLPE,Power cable upto 3Cx150sqmm , aluminium conductor, including supply & installation of tagging(at interval of 10 m) etc. as per TPNODL specification. (Scope includes Laying of Cable in existing trench/pipe/tray with supply & laying of 9 bricks horizontally with sand & back filling, ramming and levelling of earth as per TPNODL specification including testing of cable. Scope also includes removal and disposal of loose malba above road/ground level as per instruction of EIC )	MET ER	5000					
118	Cable (LT)	Installation, testing & commissioning transportation from site to site of 1.1kV 1CX630 sqmm XLPE insulated PVC sheathed AL conductor Cable including their termination materials like glands, lugs, tagging etc. as per TPNODL specification.	MET ER	5928					
119	Cable (LT)	Installation, testing & commissioning transportation from site to site of 1.1 KV 4CX300 sqmm XLPE Aluminium Conductor, Stranded, Armoured cable including their termination materials like glands, lugs, tagging etc. as per TPNODL specification.	MET ER	8352					
120	Cable (LT)	Installation, testing & commissioning transportation from site to site of 1.1kV Armoured XLPE AL Cable of size 4CX240 sqmm including their termination materials like lugs, tagging etc. as per TPNODL specification.	MET ER	2500					
121	Cable (LT)	Installation, testing & commissioning transportation from site to site of 1.1 KV 4CX150 sqmm XLPE Aluminium Conductor, Stranded, Armoured cable including their termination materials like lugs, tagging etc. as per TPNODL specification.	MET ER	7673					
122	Cable	Installation, testing & commissioning transportation from site to site of 1.1 KV 2CX50 SQMM Un Armoured, stranded copper conductor, PVC insulated and PVC sheathed cable including their termination materials like lugs, tagging etc. as per TPNODL specification.	MET ER	2000					

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123	Cable	Installation, testing & commissioning transportation from store and unloading at site of 4CX16 sq. mm Armoured, stranded aluminium conductor, PVC insulated and PVC sheathed cable including their termination materials like lugs, ferrule, tagging etc. as per TPNODL specification	MET ER	22000					
124	Cable	Installation, testing & commissioning transportation from store and unloading at site of 4CX25 sq. mm Armoured, stranded aluminium conductor, PVC insulated and PVC sheathed cable including their termination materials like lugs, ferrule, tagging etc. as per TPNODL specification	MET ER	6600					
125	Cable	Installation, testing & commissioning transportation from site to site of 4CX10 sq. mm Armoured, stranded aluminium conductor, PVC insulated and PVC sheathed cable including their termination materials like lugs, ferrule, tagging etc. as per TPNODL specification	MET ER	22000					
126	Cable	Installation, testing & commissioning transportation from site to site of 2CX6 sq. mm Armoured, stranded aluminium conductor, PVC insulated and PVC sheathed cable including their termination materials like lugs, ferrule, tagging etc. as per TPNODL specification.	MET ER	44000					
127	Cable	Installation, testing & commissioning transportation from site to site of 19CX2.5 SQMM Armoured, stranded copper conductor, PVC insulated and PVC sheathed cable including their termination materials like lugs, ferrule, tagging etc. as per TPNODL specification	MET ER	5000					
128	Cable	Installation, testing & commissioning transportation from site to site of 16CX2.5 SQMM Armoured, stranded copper conductor, PVC insulated and PVC sheathed cable including their termination materials like lugs, ferrule, tagging etc. as per TPNODL specification	MET ER	7000					
129	Cable	Installation, testing & commissioning transportation from site to site of 10CX2.5 SQMM Armoured, stranded copper conductor, PVC insulated and PVC sheathed cable including their termination materials like lugs, ferrule, tagging etc. as per TPNODL specification.	MET ER	7000					
130	Cable	Installation, testing & commissioning transportation from site to site of 7CX2.5 SQMM Armoured, stranded copper conductor, PVC insulated and PVC sheathed cable including their termination materials like lugs, ferrule, tagging etc. as per TPNODL specification.	MET ER	5000					
131	Cable	Installation, testing & commissioning transportation from site to site of 1.1kV armoured PVC sheathed AL conductor Cable of size 4CX2.5 sqmm including their termination materials like lugs, ferrule, tagging etc. as per TPNODL specification.	MET ER	5000					

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132	Cable	Installation, testing & commissioning transportation from site to site of 1.1kV armoured PVC sheathed AL conductor Cable of size 2CX2.5 sqmm including their termination materials like lugs, ferrule, tagging etc. as per TPNODL specification.	MET ER	7000					
133	Cable	Installation, testing & commissioning transportation from site to site of 2CX2.5 SQMM Armoured, stranded copper conductor, PVC insulated and PVC sheathed cable including their termination materials like lugs, tagging etc. as per TPNODL specification.	MET ER	4000					
134	Cable	Laying of LT, XLPE, GI wire Armoured, AL Cable of size 4CX150 sqmm in S/Sth. Trench/Trenchless duct/Tray/GI Pipe/Hume Pipe as per TPNODL specification including testing of cable and transportation from store and unloading at site. Scope of work exclude laying of Hume Pipe, GI Pipe, PVC Pipe and Tray	MET ER	2500					
135	Cable	Laying of LT, XLPE, GI wire Armoured, AL Cable of size 4CX300 sqmm in S/Sth. Trench/Trenchless duct/Tray/GI Pipe/Hume Pipe as per TPNODL specification including testing of cable transportation from store and unloading at site. Scope of work exclude laying of Hume Pipe, GI Pipe, PVC Pipe and Tray	MET ER	2500					
136	Cable	Supply, laying, testing & commissioning including loading, unloading & transportation of 1Cx16Sqmm AL XLPE cable for battery & battery charger including their termination materials like glands, lugs, tagging etc. as per TPNODL specification.	MET ER	2000					
137	Cable accessories	Supply, Installation of Straight Through Joint Kit for 1.1 kV XLPE AL Cable 4CX50 sqmm	NOS	250					
138	Cable accessories	Supply, Installation of Straight Through Joint Kit for 1.1 kV XLPE AL Cable 4CX95 sqmm	NOS	250					
139	Cable accessories	Supply, Installation of Straight Through Joint Kit for 1.1 kV XLPE AL Cable 4CX150 sqmm	NOS	250					
140	Cable accessories	Supply, Installation of Straight Through Joint Kit for 1.1 kV XLPE AL Cable 4CX300 sqmm	NOS	250					
141	Cable accessories	Supply, Fabrication and Erection of Aluminium flat 25X1.5 mm and marking cable number, sizes etc. for cable tag	NOS	250					
142	Jointing Kits	Supply, Installation of Straight Through Joint Kit for 33KV 3Cx300Sqmm XLPE Cable	EA	500					
143	Jointing Kits	Supply, Installation of Straight Through Joint Kit for 33KV 3Cx400Sqmm XLPE Cable	EA	500					
144	Jointing Kits	Supply, Installation of Straight Through Joint Kit for 11KV 3Cx400Sqmm XLPE Cable	EA	500					

145	Jointing Kits	Supply, Installation of Straight Through Joint Kit for 11KV 3Cx300Sqmm XLPE Cable	EA	500					
146	Jointing Kits	Supply, Installation of Straight Through Joint Kit for 11KV 3Cx240Sqmm XLPE Cable	EA	500					
147	Jointing Kits	Supply, Installation of Straight Through Joint Kit for 11KV 3Cx185Sqmm XLPE Cable	EA	500					
148	Jointing Kits	Supply, Installation of Straight Through Joint Kit for 11KV 3Cx185Sqmm XLPE Cable	EA	500					
149	Jointing Kits	Supply, Installation of Straight Through Joint Kit for 11KV 3Cx150Sqmm XLPE Cable	EA	500					
150	Jointing Kits	Supply, Installation of Straight Through Joint Kit for 11KV 3Cx120Sqmm XLPE Cable	EA	500					
151	Jointing Kits	Supply, Installation of Straight Through Joint Kit for 11KV 3Cx95Sqmm XLPE Cable	EA	500					
152	Jointing Kits	Supply, Installation of Straight Through Joint Kit for 11KV 3Cx70Sqmm XLPE Cable	EA	500					
153	Jointing Kits	Supply, Installation of Outdoor end termination Kit for 33KV 3Cx300Sqmm XLPE Cable	EA	500					
154	Jointing Kits	Supply, Installation of Outdoor end termination Kit for 33KV 3Cx400Sqmm XLPE Cable	EA	500					
155	Jointing Kits	Supply, Installation of Outdoor end termination Kit for 11KV 3Cx400Sqmm XLPE Cable	EA	500					
156	Jointing Kits	Supply, Installation of Outdoor end termination Kit for 11KV 3Cx300Sqmm XLPE Cable	EA	500					
157	Jointing Kits	Supply, Installation of Outdoor end termination Kit for 11KV 3Cx240Sqmm XLPE Cable	EA	500					
158	Jointing Kits	Supply, Installation of Outdoor end termination Kit for 11KV 3Cx185Sqmm XLPE Cable	EA	500					
159	Jointing Kits	Supply, Installation of Outdoor end termination Kit for 11KV 3Cx185Sqmm XLPE Cable	EA	500					
160	Jointing Kits	Supply, Installation of Outdoor end termination Kit for 11KV 3Cx150Sqmm XLPE Cable	EA	500					
161	Jointing Kits	Supply, Installation of Outdoor end termination Kit for 11KV 3Cx120Sqmm XLPE Cable	EA	500					
162	Jointing Kits	Supply, Installation of Outdoor end termination Kit for 11KV 3Cx95Sqmm XLPE Cable	EA	500					
163	Jointing Kits	Supply, Installation of Outdoor end termination Kit for 11KV 3Cx70Sqmm XLPE Cable	EA	500					
164	Jointing Kits	Supply, Installation of Indoor end termination Kit for 33KV 3Cx300Sqmm XLPE Cable	EA	500					
165	Jointing Kits	Supply, Installation of Indoor end termination Kit for 33KV 3Cx400Sqmm XLPE Cable	EA	500					

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	Kits								
166	Jointing Kits	Supply, Installation of Indoor end termination Kit for 11KV 3Cx400Sqmm XLPE Cable	EA	500					
167	Jointing Kits	Supply, Installation of Indoor end termination Kit for 11KV 3Cx300Sqmm XLPE Cable	EA	500					
168	Jointing Kits	Supply, Installation of Indoor end termination Kit for 11KV 3Cx240Sqmm XLPE Cable	EA	500					
169	Jointing Kits	Supply, Installation of Indoor end termination Kit for 11KV 3Cx185Sqmm XLPE Cable	EA	500					
170	Jointing Kits	Supply, Installation of Indoor end termination Kit for 11KV 3Cx185Sqmm XLPE Cable	EA	500					
171	Jointing Kits	Supply, Installation of Indoor end termination Kit for 11KV 3Cx150Sqmm XLPE Cable	EA	500					
172	Jointing Kits	Supply, Installation of Indoor end termination Kit for 11KV 3Cx120Sqmm XLPE Cable	EA	500					
173	Jointing Kits	Supply, Installation of Indoor end termination Kit for 11KV 3Cx95Sqmm XLPE Cable	EA	500					
174	Jointing Kits	Supply, Installation of Indoor end termination Kit for 11KV 3Cx70Sqmm XLPE Cable	EA	500					
175	Lugs	SITC including loading , unloading & transportation of AL Lugs 4 sq. mm , Crimping and connecting to the equipment's including supply and erection of PVC Tape as per voltage requirement & as per TPNODL specification	NOS	2500					
176	Lugs	SITC including loading , unloading & transportation of AL Lugs 10 sq. mm , Crimping and connecting to the equipment's including supply and erection of PVC Tape as per voltage requirement & as per TPNODL specification	NOS	2500					
177	Lugs	SITC including loading , unloading & transportation of AL Lugs 25 sq. mm , Crimping and connecting to the equipment's including supply and erection of PVC Tape as per voltage requirement & as per TPNODL specification	NOS	8800					
178	Lugs	SITC including loading , unloading & transportation of AL Lugs 35 sq. mm , Crimping and connecting to the equipment's including supply and erection of PVC Tape as per voltage requirement & as per TPNODL specification	NOS	3000					
179	Lugs	SITC including loading , unloading & transportation of AL Lugs 50 sq. mm , Crimping and connecting to the equipment's including supply and erection of PVC Tape as per voltage requirement & as per TPNODL specification	NOS	3000					

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180	Lugs	SITC including loading , unloading & transportation of AL Lugs 70 sq. mm , Crimping and connecting to the equipment's including supply and erection of PVC Tape as per voltage requirement & as per TPNODL specification	NOS	18594					
181	Lugs	SITC including loading , unloading & transportation of AL Lugs 95 sq. mm , Crimping and connecting to the equipment's including supply and erection of PVC Tape as per voltage requirement & as per TPNODL specification	NOS	12468					
182	Lugs	SITC including loading , unloading & transportation of AL Lugs 150 sq. mm , Crimping and connecting to the equipment's including supply and erection of PVC Tape as per voltage requirement & as per TPNODL specification	NOS	12552					
183	Lugs	SITC including loading , unloading & transportation of AL Lugs 185 sq. mm , Crimping and connecting to the equipment's including supply and erection of PVC Tape as per voltage requirement & as per TPNODL specification	NOS	2500					
184	Lugs	SITC including loading , unloading & transportation of AL Lugs 300 sq. mm , Crimping and connecting to the equipment's including supply and erection of PVC Tape as per voltage requirement & as per TPNODL specification	NOS	1112					
185	Lugs	SITC including loading , unloading & transportation of AL Lugs 630 sq. mm , Crimping and connecting to the equipment's including supply and erection of PVC Tape as per voltage requirement & as per TPNODL specification	NOS	1536					
186	Cleat	SITC including loading , unloading & transportation of Wooden Cleat set along with MS Flat & nut,bolt & washers of different sizes, including painting one coat of red oxide & two coats of AL paint for fixing different sizes of HT/LT cable (Price per set).	SET	450					
187	Cleat	SITC including loading , unloading & transportation of HDPE Cleat set of different sizes for fixing different sizes upto 100mm of HT/LT cable (Price per set).	SET	450					
188	Cleat	SITC including loading , unloading & transportation of HDPE Cleat set of different sizes for fixing different sizes of above 100mm HT/LT cable (Price per set).	SET	450					
189	Cleat	SITC including loading , unloading & transportation of GI Cleat set of different sizes for fixing different sizes of HT/LT cable (Price per set).	SET	450					
190	Earth pit	Construction of Earthing Chamber (Size: 2'X2') and RCC Slab cover as per TPNODL specification including supply of material	NOS	1000					
191	Earthing	SITC including loading , unloading & transportation of Chemical earthing including all accessories as per TPNODL specification.	NOS	1000					

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192	Earthing	SITC including loading , unloading & transportation of Flexible CU earth bond 1cm dia and 500mm long, both end provision of socket suitable for M-16 bolts as per TPNODL specification.	NOS	500					
193	Earthing	SITC including loading , unloading & transportation of GI Earthing spike made of 20 mm dia. 2500 mm solid rod with clamp in each single pole point as per TPNODL specification. Each pit resistance will be measured and recorded and shall be less than 1 ohm.	NOS	400					
194	Earthing	SITC including loading , unloading & transportation of 40mm, class-B, 3 Mtr. long hot dip GI pipe. The scope of work includes excavation/boring for earthing pit, supply & pouring of salt, charcoal in the earthing pit, required GI nut, bolt, washers, AL lugs & making connection with GI flat/wire as per TPNODL specification. Each pit resistance will be measured and recorded and shall be less than 1ohm.	NOS	2200					
195	Earthing	SITC including loading , unloading & transportation of 40mm, class-B, 3 Mtr. long hot dip GI pipe. The scope of work includes excavation/boring for treated earthing pit, making chamber, cover, supply & pouring of salt, charcoal in the earthing pit, required GI nut, bolt, washers, AL lugs & making connection with GI flat/wire as per TPNODL specification. Each pit resistance will be measured and recorded and shall be less than 1ohm.	NOS	8857					
196	Earthing	Supply, Installation ,testing & commissioning of Earthing with Electrolytic grade copper plate 600mmx600mmx6mm including 50x6mm copper flat and other accessories and providing masonry enclosure with cover plate to be provided in 6 Mtr deep earth pit to be filled With earth enhancement material as per IEEE80:2000,14.5(D) .Earth Enhancement material approval is mandatory before erection activity. This item includes civil goomties required for earth pit as per TPNODL specification.	SET	200					
197	Earthing	Treated Pipe Earthing with 100mm dia 3 Mtr. long Class-B GI Pipe with earth chamber .Scope include supply and erection of all required material like Earth Electrode, Salt, Charcoal, Funnel, Cast iron cover with handle, Wire mess, Check Nuts, GI Nuts and Bolt, PVC Pipe sleeves, Test Link, PCC and brick work etc. Scope also include, supply, erection, boring up to water level .(Each pit resistance will be measured and recorded and shall be less than 1ohm).	NOS	100					

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198	Earthing	Treated Pipe Earthing with 63mm dia 3 Mtr. long Class-B GI Pipe with earth chamber .Scope include supply and erection of all required material like Earth Electrode, Salt, Charcoal, Funnel, Cast iron cover with handle, Wire mess, Check Nuts,GI Nuts and Bolt, PVC Pipe sleeves,Test Link, PCC and brick work etc. Scope also include,supply,erection,boaring up to water level .(Each pit resistance will be measured and recorded and shall be less than 1ohm).	NOS	100					
199	Earthing	Providing and fixing Polyvinyl Chloride (PVC) pipes of 63 mm nominal outer dia with funnel , having thermal stability for water supply as per TPNODL Specification	METER	500					
200	Erection	Brick betting for Pole foundation including supply of consumables and strengthening as per TPNODL specification.	NOS	5000					
201	GI wire	ITC including loading , unloading & transportation of 4 SWG GI wire for Guarding, Bracing including making of connection hooks,structure,for earthing of structures & equipment's etc. as per TPNODL specification.	KG	221572					
202	GI wire	ITC including loading , unloading & transportation of 6 SWG GI wire for Guarding of conductor on pole at road/street crossing including making connection with structures & equipment's with earth electrode/pipe/road for earthing etc. as per TPNODL specification.(0.146Kg/Mtr)	KG	21056					
203	GI wire	ITC including loading , unloading & transportation of GI wire 8 SWG for lacing of Guarding of conductor on pole at road/street crossing etc. as per TPNODL specification.(0.103Kg/Mtr)	KG	14755					
204	H/W	ITC including loading , unloading & transportation of 4 Bolted( M-16 U bolts) single tension hardware fitting as per TPNODL specification.	SET	1140					
205	Insulator	SITC including loading , unloading & transportation of 33KV Disc insulator(polymer type) B&S Type 70KN as per TPNODL specification.	EA	1000					
206	Insulator	SITC including loading , unloading & transportation of 11KV Disc insulator(polymer type) B&S Type 70KN as per TPNODL specification.	EA	6660					
207	Insulator	SITC including loading , unloading & transportation of 11KV Disc insulator(polymer type) B&S Type 90KN as per TPNODL specification.	EA	81					
208	Insulator	SITC including loading , unloading & transportation of 11KV Disc insulator(polymer type) B&S Type 120KN as per TPNODL specification.	EA	5166					
209	Insulator	SITC including loading , unloading & transportation of 11KV Disc insulator porcelain B&S Type 70KN as per TPNODL specification.	EA	300					

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210	Insulator	SITC including loading , unloading & transportation of 33KV Disc insulator(polymer type) B&S Type 120KN as per TPNODL specification.	EA	1000					
211	Insulator	SITC including loading , unloading & transportation of 33KV Pin insulator(polymer type) along with GI Pin as per TPNODL specification.	EA	7857					
212	Insulator	SITC including loading , unloading & transportation of 11KV Pin insulator(polymer type) along with GI Pin as per TPNODL specification.	EA	23424					
213	Hard ware-Disc	SITC including loading , unloading & transportation of 33KV H W fitting(B&S) 90KN, 3Bolt for 148/232 Sq. mm as per TPNODL specification.	NOS	232					
214	Hard ware-Disc	SITC including loading , unloading & transportation of 33KV H W fitting(B&S) 90KN, 3Bolt for 125/100 Sq. mm as per TPNODL specification.	NOS	1000					
215	Hard ware-Disc	SITC including loading , unloading & transportation of 11 KV HW FITTING(B&S) 70KN 3 BOLT for 80 Sq. mm as per TPNODL specification.	NOS	7677					
216	Hard ware-Disc	SITC including loading , unloading & transportation of 33KV H W fitting(B&S)90KN, 4Bolt for 148/232 Sq. mm as per TPNODL specification.	NOS	360					
217	Hard ware-Disc	SITC including loading , unloading & transportation of 33KV H W fitting(B&S)90KN, 4Bolt for 125/100 Sq. mm as per TPNODL specification.	NOS	1000					
218	Insulator-Guy	SITC including loading , unloading & transportation of 11 KV Guy insulator as per TPNODL specification.	NOS	500					
219	Insulator-Guy	SITC including loading , unloading & transportation of 33 KV Guy insulator as per TPNODL specification.	NOS	500					
220	Insulator-Post	SITC including loading , unloading & transportation of 33kV Post (2X24KV Post insulator Stack) Insulator with hardware fitting as per TPNODL specification.	NOS	348					
221	LA	ITC including loading , unloading & transportation of 11kV distribution class LA Single Phase on existing structure (LA 9KV 5KA FOR 11KV POLYMERIC) as per TPNODL specification.	NOS	500					
222	LA	ITC including loading , unloading & transportation of 11 kV LA Station Type Single Phase on existing structure (LA 9KV 5KA FOR 11KV POLYMERIC) as per TPNODL specification.	NOS	2688					
223	LA	ITC including loading , unloading & transportation of 33kV LA Station Type Single Phase on existing structure (LA 33KV 10 KA FOR 33KV POLYMERIC) as per TPNODL specification.	NOS	792					
224	Marker	SITC including loading , unloading & transportation of 33 KV Cable Route Marker as per TPNODL specification	NOS	500					

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225	Marker	SITC including loading , unloading & transportation of 11 KV Cable Route Marker as per TPNODL specification	NOS	500					
226	Marker	SITC including loading , unloading & transportation of 33 KV Cable Joint Marker as per TPNODL specification	NOS	500					
227	Marker	SITC including loading , unloading & transportation of 11 KV Cable Joint Marker as per TPNODL specification	NOS	500					
228	MVLC	SITC including loading , unloading & transportation of MVLC medium voltage line cover (Polypro) as per TPNODL specification	METER	1098					
229	N&B	SITC including loading , unloading & transportation of GI Nut & Bolts with plain & Spring Washer of all size based on site requirement & as per TPNODL specification	KG	59597					
230	GI Pipe	Supply and installation including loading , unloading & transportation of 100 mm dia GI Pipe (Heavy Duty) including accessories for fixing it with pole/structure/trench and sealing of the pipe for Cable protection as per TPNODL specification	METER	804					
231	Hume Pipe	Supply and installation including loading , unloading & transportation of HUME 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)	M	200					
232	Plate	Supply and installation including loading , unloading & transportation of Chequer Plate as per TPNODL specification	KG	1000					
233	Sign Board	Sign writing on Transformer, Panel,RMU,Substation, pole structure, fencing & any other structure/equipment as per details mentioned in the scope of work and specification (including supply of paint) as per TPNODL Specification. Unit/equipment	NOS	500					
234	Stay set	SITC including loading , unloading & transportation of 11 KV HT Stay Set (Galvanized) [Anchor plate (200x200x6), nut bolts, 1 Nos turn-buckles, G.I Thimble 2 Nos., 2.1 m long, 20 mm diameter solid GI stay rod , guy insulator, TENSION SCREW (TURN BUCKLE) HT BOLT 20MM I hook complete as per TPNODL Specification. The scope also includes civil works( with 0.5 Cum cement concrete foundation 1:3:6 size (900mmx600mmx900mm) using 40mm metal as per TPNODL specification).	SET	13980					

235	Stay set	SITC including loading , unloading & transportation of 33 KV HT Stay Set (Galvanized) [Anchor plate (200x200x6), nut bolts, 1 Nos turn-buckles, G.I Thimble 2 Nos., 2.1 m long, 20 mm diameter solid GI stay rod, guy insulator ,TENSION SCREW (TURN BUCKLE) LT BOLT 16MM, I hook complete as per TPNODL specification. The scope also includes civil works( with 0.5 Cum cement concrete foundation 1:3:6 size (900mmx600mmx900mm) using 40mm metal as per TPNODL specification).	SET	700					
236	Stay wire	SITC including loading , unloading & transportation for Sagging/Stringing/Drawing of GI wire 7/10SWG (0.455Kg/Mtr) for earthing of equipment's/structure/stay set as per TPNODL Specification	KG	248497					
237	Stay wire	SITC including loading , unloading & transportation for Sagging/Stringing/Drawing of GI wire 7/8 SWG(0.729Kg/Mtr) for earthing of equipment's/structure/stay set as per TPNODL Specification	KG	7200					
238	Stay wire	SITC including loading , unloading & transportation for Sagging/Stringing/Drawing of GI wire 7/12 SWG for earthing of equipment's/structure/stay set as per TPNODL Specification	KG	11000					
239	Structure	SITC including loading , unloading & transportation of Pre-fabricated GI Steel Structure (Angle. Channel, Flat etc.) as per TPNODL Specification	KG	362390					
240	Structure	SITC including loading , unloading & transportation of Pre-fabricated MS Steel Structure (Angle. Channel, Flat etc.) including painting (one coat of red oxide & two coats of synthetic/aluminium paint) as per TPNODL Specification	KG	362390					
241	Structure	SITC including loading , unloading & transportation of Pre-fabricated GI Tower Structure including tightening,punching,tag welding,leg painting etc. except civil foundation works as per TPNODL Specification	KG	10000					
242	Earthing	SITC including loading , unloading & transportation of GI earthing Flat 50X6 including bending, welding and painting of joints with red oxide & bituminous paint on welded area as per TPNODL specification.	KG	44820					
243	Earthing	SITC including loading , unloading & transportation of GI earthing Flat 25X6 including bending, welding and painting of joints with red oxide & bituminous paint on welded area as per TPNODL specification.	KG	44820					
244	Earthing	SITC including loading , unloading & transportation of GI earthing Flat 75X10 including bending, welding and painting of joints with red oxide & bituminous paint on welded area as per TPNODL specification.	KG	44820					

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245	Earthing	SITC including loading , unloading & transportation of GI earthing Flat 90X10 including bending, welding and painting of joints with red oxide & bituminous paint on welded area as per TPNODL specification.	KG	44820					
246	Earthing	SITC including loading ,unloading & transportation of coil earthing (8 SWG wire dia) along with 8 SWG Wire, excavation,backfilling,Nut -bolt & other accessories and connecting with cross arm, Channel, angle and other accessories of pole as per TPNODL specification.	NOS	5000					
247	Earthing	Supply, Installation ,testing & commissioning of 50x6mm cu flat for Transformer neutral earthing with 50x6mm copper flat. This item includes required earth excavation for laying earth flat. This item excludes brazing activity.	M	970					
248	Earthing	Supply, Installation ,testing & commissioning of 100 mm dia GI pipe-6 meter length earth electrode with treated earth Pit Class-C with Treated Earth Pits. With earth enhancement material as per IEEE80:2000,14.5(D). This item includes civil goomties required for earth pit as per TATA Power-DDL standard earthing philosophy. Earth Enhancement material approval is mandatory before erection activity.	EA	105					
249	Earthing	Supply, Installation ,testing & commissioning of 100 mm dia GI pipe-3 meter length earth electrode with treated earth Pit Class-C with Treated Earth Pits. With earth enhancement material as per IEEE80:2000,14.5(D). This item includes civil goomties required for earth pit as per TATA Power-DDL standard earthing philosophy. Earth Enhancement material approval is mandatory before erection activity.	EA	100					
250	Earthing	Supply, Installation ,testing & commissioning of 63 mm dia GI pipe-6 meter length earth electrode with treated earth Pit Class-C with Treated Earth Pits. With earth enhancement material as per IEEE80:2000,14.5(D). This item includes civil goomties required for earth pit as per TATA Power-DDL standard earthing philosophy. Earth Enhancement material approval is mandatory before erection activity.	EA	105					
251	Earthing	Supply, Installation ,testing & commissioning of 63 mm dia GI pipe-3 meter length earth electrode with treated earth Pit Class-C with Treated Earth Pits. With earth enhancement material as per IEEE80:2000,14.5(D). This item includes civil goomties required for earth pit as per TATA Power-DDL standard earthing philosophy. Earth Enhancement material approval is mandatory before erection activity.	EA	100					

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252	Earthing	Supply, Installation ,testing & commissioning of 40 mm dia GI pipe-3 meter length earth electrode with treated earth Pit , Class-B with Treated Earth Pits. With earth enhancement material as per IEEE80:2000,14.5(D) This item includes civil goomties required for earth pit as per TATA Power-DDL standard earthing philosophy. Earth Enhancement material approval is mandatory before erection activity.	EA	25					
253	Earthing	Supply, Installation ,testing & commissioning of Outdoor Earth Electrode earth electrode 32 mm Dia 3 mtr long M.S. rod earth electrode (driven) for building lightning, Cap fencing & Main earth mat With earth enhancement material as per IEEE80:2000,14.5(D). Earth Enhancement material approval is mandatory before erection activity.	EA	10					
254	Earthing	Supply, Installation ,testing & commissioning of Outdoor Earth Electrode earth electrode 32 mm Dia 6 mtr long M.S. rod earth electrode (driven) for building lightning, Cap fencing & Main earth mat With earth enhancement material as per IEEE80:2000,14.5(D). Earth Enhancement material approval is mandatory before erection activity.	EA	10					
255	Pump	Supply, Installation ,testing & commissioning of Industrial type Dewatering/submersible/sewage pump (portable type) 415 V, 1 HP, automatic ON/OFF facility and including required plumbing connections along with outlet flexible nylon braided PVC pipe - 30 meters. - Approved make - Crompton/Kirloskar	EA	12					
256	Pump	Supply, Installation ,testing & commissioning of Industrial type Dewatering/submersible/sewage pump (portable type) 415 V, 2 HP, automatic ON/OFF facility and including required plumbing connections along with outlet flexible nylon braided PVC pipe - 30 meters including all accessriess if required. Approved make - Crompton/Kirloskar	EA	8					
257	Pump	Supply, Installation ,testing & commissioning of Industrial type Dewatering/submersible/sewage pump (fixed type) 415 V, 1 HP, automatic ON/OFF feature and including required plumbing items(union, valves, scokets, CPVC pipe etc.) & connections along with outlet flexible nylon braided PVC pipe - 30 meters. including all accessriess if required. Approved make - Crompton/Kirloskar	EA	4					

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258	Asset Numbering	SITC of asset numbering Drawing approval to be taken as per rules before erecting activity. Danger board are to be provided on fencing near the entry gates & at a distance of every 5 meters and turns on a height of 2.6 meters. Complete identification of all the assets/equipment's, RCC cable trench cover there marking in the approve color and numbering to be done with detailed description of the asset as per the requirement of project in-charge. This includes supply of paints and other required material to complete the activity. (This item shall be paid per PTR Bay/ Line Bay,)	LOT	5					
259	Asset Numbering	SITC of asset numbering Drawing approval to be taken as per rules before erecting activity. Danger board are to be provided on fencing near the entry gates & at a distance of every 5 meters and turns on a height of 2.6 meters. Complete identification of all the assets/equipment's, RCC cable trench cover there marking in the approve color and numbering to be done with detailed description of the asset as per the requirement of project in-charge. This includes supply of paints and other required material to complete the activity. (This item shall be paid per Augmantation PTR/Replacement of PTR work,)	Lot	10					
260	Asset Numbering	SITC of Grid sign boards. Within 10 days of award of order grid sign board is to be placed at site outside the grid. Location to be confirmed from the concerned project- in- charge. Installation ,testing & commissioning of the same is covered in the scope of order. No special mention of the same is again required in the tender document. Drawing approval to be taken as per rules before erecting activity. Danger board are to be provided on fencing near the entry gates & at a distance of every 5 meters and turns on a height of 2.6 meters. (This item is only for Grid job Sign Board as per TPDLL Sepcs.)	LOT	6					
261	Mars hallin g Box	Supply, Installation ,testing & commissioning of Bay marshalling kiosk made of 2.5 mm. Thick sheet steel , IP 55 enclosure protection as per specification.	EA	10					
262	CT/P T Junction Box	Supply, Installation ,testing & commissioning of CT/PT Junction Box of 2.5 mm thick sheet steel, IP 55 enclosure protection as per specification.	EA	20					
263	Cleat s	Supply, Installation ,testing & commissioning of cable cleat (HDPE) size <b>up to</b> 100mm	EA	180					
264	Cleat s	Supply, Installation ,testing & commissioning of cable cleat (HDPE) size greater than 100mm	EA	50					

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265	Dismantling	Dismantling and removing of EHV/HT U/G cables for grid works from the earth or existing power cable trench. This also includes earth excavation (if required) to dismantle the cable and rewinding the cable back on drums or in coils & transportation to TATA Power-DDL stores/site.	M	2600					
266	Dismantling	Dismantling and removing of EHV/HT U/G cables for grid works from the earth or existing power cable trench. This also includes earth excavation (if required) to dismantle the cable. Dismantled cable kept at the same grid. This item excludes transportation to TATA Power-DDL store/site	M	1000					
267	Dismantling	Dismantling of Conductor with insulators & hardware (per mtr per conductor) including stacking at site and transportation of dismantled material to TATA Power-DDL store/ site as per requirement of Engineer- in-charge.	M	200					
268	Dismantling	Dismantling of Conductor with insulators & hardware (per mtr per conductor) including stacking at site as per requirement of Engineer- in- charge. This item excludes transportation to TATA Power-DDL store/site	M	100					
269	Dismantling	Dismantling and removing of control cables for grid works. This also includes rewinding back on drums or in coils & transportation to TATA Power-DDL stores	M	2100					
270	Dismantling	Dismantling and removing of control cables for grid works. These cables to be kept at same grid premise. This item excludes the transportation to TATA Power-DDL store.	TON	1000					
271	Dismantling	Dismantling of GI/MS structure Loading, Transportation within 30 Kms to TATA Power-DDL store and Insurance during transportation shall be in TATA Power-DDL scope.	KG	12					
272	Dismantling	Dismantling of GI/MS structure as per TATA Power-DDL project in-charge.	TON	3					
273	PG Clamp	SITC including loading, unloading & transportation of P.G. CLAMP FOR 232 MM2 AAC CONDUCTOR as per TPNODL specification	NOS	500					
274	PG Clamp	SITC including loading, unloading & transportation of P.G. CLAMP FOR 148 MM2 AAC CONDUCTOR as per TPNODL specification	NOS	400					
275	PG Clamp	SITC including loading , unloading & transportation of P.G. CLAMP FOR 125 MM2 AAC CONDUCTOR as per TPNODL specification	NOS	400					
276	PG Clamp	SITC including loading , unloading & transportation of P.G. CLAMP FOR 100 MM2 AAC CONDUCTOR as per TPNODL specification	NOS	1140					

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277	PG Clamp	SITC including loading , unloading & transportation of P.G. CLAMP FOR 80 MM2 AAC CONDUCTOR as per TPNODL specification	NOS	400					
278	PG Clamp	SITC including loading , unloading & transportation of P.G. CLAMP FOR 55 MM2 AAC CONDUCTOR as per TPNODL specification	NOS	400					
279	HDP E	Mounting of Cable (LT & HT) at Pole/tower/Structure , after passing through suitable size of 100 mm HDPE Pipe PN 4 PE80 (3 Meter including supply of pipe) proper clamping and fixing along (GI clamp (12X3 mm) at every interval of 1.5 Mtr ,Nut & Bolt ,sealing of the pipe ,collar fixing, blocking of pipe ). Scope of work excluding supply and erection of Wooden Cleat set (Including Nomenclature , phase marking and numbering) as per TPNODL specification.	NOS	200					
280	HDP E	Supply and laying including loading , unloading & transportation of HDPE Pipe PN 4 CLASS PE 63 of size125 mm.Dia as per IS:4984	METER	2000					
281	HDP E	Supply and laying including loading , unloading & transportation of HDPE Pipe PN 4 CLASS PE 80 of size125 mm.Dia as per IS:4984	METER	2000					
282	HDP E	Supply and laying including loading , unloading & transportation of HDPE Pipe PN 4 CLASS PE 63 of size160 mm.Dia as per IS:4984	METER	2000					
283	HDP E	Supply and laying including loading , unloading & transportation of HDPE Pipe PN 4 CLASS PE 63 of size 200 mm. Dia as per IS:4984	METER	2000					
284	HDP E	Supply and laying including loading , unloading & transportation of HDPE Pipe PN 4 CLASS PE 80 of size160 mm.Dia as per IS:4984	METER	2000					
285	HDP E	Supply and laying including loading , unloading & transportation of HDPE Pipe PN 4 CLASS PE 80 of size 200 mm. Dia as per IS:4984	METER	2000					
286	HDP E	Supply and laying including loading , unloading & transportation of HDPE Pipe PN 6 CLASS PE 63 of size 200 mm. Dia as per IS:4984	METER	2000					
287	HDP E	Supply and laying including loading , unloading & transportation of HDPE Pipe PN 6 CLASS PE 63 of size 160 mm. Dia as per IS:4984	METER	2000					
288	HDP E	Supply and laying including loading , unloading & transportation of HDPE Pipe PN 6 CLASS PE 63 of size 125 mm. Dia as per IS:4984	METER	2000					

289	HDP E	Supply and installation including loading , unloading & transportation of HDPE Pipe - 40 mm dia for Wire/Cable protection. Scope also include supply and erection of all required accessories for fixing it with pole/structure such as GI clamp (12X3 mm) at every interval of 1.5 Mtr ,Nut & Bolt ,sealing of the pipe ,collar fixing as per TPNODL specification.	MET ER	5000					
290	HDP E	Supply and installation including loading , unloading & transportation 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 clamp (12X3 mm) at every interval of 1.5 Mtr ,Nut & Bolt ,sealing of the pipe ,collar fixing as per TPNODL specification.	MET ER	39425					
291	Tape	SITC including loading, unloading & transportation of HT Tape 25mm 10m (11 KV)	ROL L	100					
292	Tape	SITC including loading, unloading & transportation of PVC Tape adhesive 19MMX10M (All type Colour)	NOS	100					
293	M Seal	SITC including loading, unloading & transportation of M seal(1kg)	KG	100					
294	Painti ng	Supply & application of Reflecting Paint as per TPNODL specification	LTR	100					
295	Wood en Cleat	SITC including loading , unloading & transportation of Wooden Cleat set, MS strip and hard ware for fixing power cable including painting one coat of red oxide & two coats of black paint as per TPNODL specification. Scope also includes supply of ISI marked paint. (Price per set)	SET	500					
296	Dang er Board	SITC including loading , unloading & transportation of Danger Board 33 KV with Back Clamp & Nut & Bolt as per TPNODL specification.	NOS	3126					
297	Dang er Board	SITC including loading , unloading & transportation of Danger Board 11 KV with Back Clamp & Nut & Bolt as per TPNODL specification.	NOS	7654					
298	ALNO X 3M	SITC including loading , unloading & transportation of ALNOX 3M (HOT SPOT REDUCING PASTE) 250 gm to be applied on lugs of transformers connections. as per TPNODL specification.	NOS	25					
299	Anticli mbing Devic e	SITC including loading , unloading & transportation of Anticlimbing device ( to avoid the climbing at pole) for Tower (Bracket) as per as per TPNODL specification.	NOS	3426					
300	Anticli mbing Devic e	SITC including loading , unloading & transportation of Barbed Wire(2.5MM x 2MM) ( to avoid the climbing at pole) as per as per TPNODL specification.	KG	8944					
301	Base Plate- RCC	SITC including loading , unloading & transportation of RCC Base Plate- 450X450X75MM as per TPNODL specification.	NOS	10000					

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302	Bird Cap	SITC including loading , unloading & transportation of Bird Cap for Lightning Arrester as per TPNODL specification	NOS	2496					
303	BIRD GUARD	SITC including loading , unloading & transportation of Bird Guard Spike (Flexible Polycarbonate) on pole/insulators as per TPNODL specification	NOS	1005					
304	Bus Bar	SITC including loading , unloading & transportation of BUS BAR COPPER HDT(Hard Drawn Tinned) SIZE 75X10MM as per TPNODL specification	METER	42					
305	Connector	SITC including loading , unloading & transportation of wedge Connector for jumpering work for different size of conductor(For Connecting the conductor of different conductor size 55 to 100 Sq. mm) as per TPNODL specification.	NOS	1056					
306	Connector	SITC including loading , unloading & transportation of 12 bolted (M-12)"T" clamp, 232 sq.mm AAAC run & 230 mm drop as per TPNODL specification.	NOS	500					
307	Connector	SITC including loading , unloading & transportation of wedge Connector for jumpering work for 125 sqmm conductor as per TPNODL specification.	NOS	500					
308	Connector	SITC including loading , unloading & transportation of wedge Connector for jumpering work for 148-232 sqmm conductor as per TPNODL specification.	NOS	500					
309	Connector	SITC including loading , unloading & transportation of Bi metallic washer/strip (wherever applicable) as per TPNODL specification.	NOS	500					
310	Gland	Supply and fixing including loading , unloading & transportation of Double compression Gland for armoured 1.1 kV XLPE AL Cable - 4CX25 sqmm, including making hole in base plate and dressing of cable as per TPNODL specification.	NOS	22000					
311	Gland	Supply and fixing including loading , unloading & transportation of Double compression Gland for armoured 1.1 kV XLPE AL Cable - 4CX150 sqmm, including making hole in base plate and dressing of cable as per TPNODL specification.	NOS	2030					
312	Gland	Supply and fixing including loading , unloading & transportation of Double compression Gland for armoured 1.1 kV XLPE AL Cable - 4CX300 sqmm, including making hole in base plate and dressing of cable as per TPNODL specification.	NOS	1098					
313	Guard	Providing and fixing including loading , unloading & transportation of RODENT CAPACITIVE SCREEN GUARD FOR- DT as per TPNODL specification.	NOS	25000					
314	SMC Cleat	SITC including loading , unloading & transportation of SMC CLEAT FOR LT 630 SQMM CABLE for mounting of cable as per TPNODL specification.	NOS	500					

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315	Safety Item	SITC including loading , unloading & transportation of Rubber Mat & First Aid Chart(MAT RUBBER 15KV SIZE 1X2MX2.5MM THICK-4nos) as per TPNODL Specification	SET	350					
316	Scotch Putty	SITC including loading , unloading & transportation of 3M SCOTCH FILL PUTTY 25 mm*10 M on all LT connection, bushings etc.as per TPNODL Specification	KG	352					
317	Scotch Spray	SITC including loading , unloading & transportation of 3M SCOTCH 1625 SPRAY 250 ml on all contacts to loosen dirt, light oxide layers and impurities before connections per TPNODL Specification	NOS	141					
318	Tape	SITC including loading , unloading & transportation of TAPE HT SCOTCH 23 25MMX9.1M 36 KV on HT side as per TPNODL specification.	ROLL	320					
319	Tape	SITC including loading , unloading & transportation of Vinyl tape scotch 35 YELLOW-BLUE-RED colour on DT connection etc. as per TPNODL specification.	ROLL	1408					
320	Tape	SITC including loading , unloading & transportation of Anti tracking silicon tape scotch 70 3M	EA	127					
321	Transformer	Installation , testing & Commissioning including oil filtration, loading , unloading & transportation of 33/11 KV, 10/12.5MVA,3 ph., 50 Hz, ONAN, Cu Wound, CRGO core, Outdoor Conventional type Power Transformer along with OLTC transformer oil, Buchholz relay, breather, OTI & WTI (SCADA Compatible), Marshalling Box, Conservator tank, oil level indicator, valves, 2 sets of 50x8 mm GI Neutral Earthing strips {(with braided conductor on bushing end), isolating link, isolation with insulators}, Vent explosion plug, control wiring between sensing equipment and marshalling box, cable supporting tray on the body of transformer, transformer wheels, LV/HV bushing etc. as per TPNODL specification.	NOS	9					
322	Transformer	Installation , testing & Commissioning including oil filtration, loading , unloading & transportation of 33/11 KV, 8 MVA,3 ph., 50 Hz, ONAN, Cu Wound, CRGO core, Outdoor Conventional type Power Transformer along with OLTC transformer oil, Buchholz relay, breather, OTI & WTI (SCADA Compatible), Marshalling Box, Conservator tank, oil level indicator, valves, 2 sets of 50x8 mm GI Neutral Earthing strips {(with braided conductor on bushing end), isolating link, isolation with insulators}, Vent explosion plug, control wiring between sensing equipment and marshalling box, cable supporting tray on the body of transformer, transformer wheels, LV/HV bushing etc. as per TPNODL specification.	NOS	9					

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323	Transformer	Installation , testing & Commissioning including oil filtration, loading , unloading & transportation of 33/11 KV, 5 MVA, 3 ph., 50 Hz, ONAN, Cu Wound, CRGO core, Outdoor Conventional type Power Transformer along with transformer oil, Buchholz relay, breather, OTI & WTI (SCADA Compatible), Marshalling Box, Conservator tank, oil level indicator, valves, 2 sets of 50x8 mm GI Neutral Earthing strips {(with braided conductor on bushing end), isolating link, isolation with insulators}, Vent explosion plug, control wiring between sensing equipment and marshalling box, cable supporting tray on the body of transformer, transformer wheels, LV/HV bushing etc. as per TPNODL specification	NOS	10					
324	Transformer	Installation , testing & Commissioning including oil filtration, loading , unloading & transportation of 33/11 KV, 3.15 MVA, 3 ph., 50 Hz, ONAN, Cu Wound, CRGO core, Outdoor Conventional type Power Transformer along with transformer oil, Buchholz relay, breather, OTI & WTI (SCADA Compatible), Marshalling Box, Conservator tank, oil level indicator, valves, 2 sets of 50x8 mm GI Neutral Earthing strips {(with braided conductor on bushing end), isolating link, isolation with insulators}, Vent explosion plug, control wiring between sensing equipment and marshalling box, cable supporting tray on the body of transformer, transformer wheels, LV/HV bushing etc. as per TPNODL specification	NOS	10					
325	Transformer	Installation, testing & commissioning including loading, unloading & transportation of 33/0.4kV, 1000 KVA 3-Phase Distribution Transformer along with all accessories on existing structure as per TPNODL specification.	NOS	10					
326	Transformer	Installation, testing & commissioning including loading, unloading & transportation of 33/0.4kV, 750 KVA 3-Phase Distribution Transformer along with all accessories on existing structure as per TPNODL specification.	NOS	10					
327	Transformer	Installation, testing & commissioning including loading, unloading & transportation of 33/0.4kV, 500 KVA 3-Phase Distribution Transformer along with all accessories on existing structure as per TPNODL specification.	NOS	10					
328	Transformer	Installation, testing & commissioning including loading, unloading & transportation of upto 33/0.4kV, 250 KVA 3-Phase Distribution Transformer along with all accessories on existing structure as per TPNODL specification.	NOS	10					
329	FPI	Installation, testing & commissioning including loading , unloading & transportation of Non-communicable FPI (Fault passage indicator)as per TPNODL specification.	NOS	1500					

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330	FPI	Installation, testing & commissioning including loading , unloading & transportation of FPI (Fault passage indicator) with Communication Box with proper wiring on GPRS modem as per TPNODL specification.	NOS	1500					
331	Excavation	Excavation of cable trench upto 1200 mm depth & 450 mm width in Rock soil as per TPNODL specification for laying of 33 KV one Cable and removal of malba. Scope of work excludes laying of HUME/PVC pipe/HDPE/GI Pipe .	M3	2700					
332	Excavation	Excavation of cable trench upto 1200 mm depth & 600 mm width in Rock soil as per TPNODL specification for laying of 33 KV double Cable and removal of malba. Scope of work excludes laying of HUME/PVC pipe/HDPE/GI Pipe .	M3	3600					
333	Excavation	Excavation of cable trench upto 1200 mm depth & 450 mm width in Ordinary Soil as per TPNODL specification for laying of 33 kV one Cable and removal of malba. Scope of work excludes laying of HUME/PVC pipe/HDPE/GI Pipe.	M3	2700					
334	Excavation	Excavation of cable trench upto 1200 mm depth & 600 mm width in Ordinary Soil as per TPNODL specification for laying of 33 kV Double Cable and removal of malba. Scope of work excludes laying of HUME/PVC pipe/HDPE/GI Pipe.	M3	3600					
335	Excavation	Excavation of cable trench upto 1075 mm depth & 450 mm width in Rock soil as per TPNODL specification for laying of 11 kV one Cable. Scope of work excludes laying of HUME/PVC/HDPE/GI Pipe.	M3	2419					
336	Excavation	Excavation of cable trench upto 1075 mm depth & 600 mm width in Ordinary Soil as per TPNODL specification for laying of 11kV more then one Cable and removal of malba. Scope of work excludes laying of HUME/PVC pipe/HDPE/GI Pipe.	M3	3225					
337	Excavation	Excavation of cable trench upto 975 mm depth & 450 mm width in Rock soil as per TPNODL specification for laying of 1.1 kV one Cable. Scope of work excludes laying of HUME/PVC/HDPE/GI Pipe.	M3	2194					
338	Excavation	Excavation of cable trench upto 975 mm depth & 600 mm width in Ordinary Soil as per TPNODL specification for laying of 1.1kV more then one Cable and removal of malba. Scope of work excludes laying of HUME/PVC pipe/HDPE/GI Pipe.	M3	2925					
339	Excavation	Mounting of Cable (LT & HT) at Pole, after passing through suitable size of GI/HDPE Pipe with its proper clamping. Scope includes fixing of wooden cleat for clamping of Termination End Box. Scope of work excluding supply and erection of Wooden Cleat set( Including Nomenclature , phase marking and numbering) as per TPNODL specification.	SET	300					

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340	Trenchless	SITC including Making Trenchless ducts with 160 mm dia HDPE pipe casing using HDD machine including supply of HDPE pipe as per IS 4984, PN6 Class PE80 as per IS:4984. This is also including laying of Cable.	METER	3000					
341	Trenchless	SITC including Making Trenchless ducts with 160 mm dia HDPE pipe casing using HDD machine including supply of HDPE pipe as per IS 4984, PN4 Class PE63 as per IS:4984. This is also including laying of Cable.	METER	3000					
342	Trenchless	SITC including Making Trenchless ducts with 200 mm dia HDPE pipe casing using HDD machine including supply of HDPE pipe as per IS 4984, PN4 Class PE63 as per IS:4984. This is also including laying of Cable.	METER	3000					
343	Trenchless	SITC including Making Trenchless ducts with 200 mm dia HDPE pipe casing using HDD machine including supply of HDPE pipe as per IS 4984, PN6 Class PE80 as per IS:4984. This is also including laying of Cable.	METER	3000					
344	Fencing	Providing, stretching and fixing Galvanised Iron chain link fencing 2" square and of gauge 10 (bare metal thickness) on angle posts ,duly grouted, with heavy duty GI split pins etc. in position complete as directed at all Heights including steel scaffolding.	M2	2500					
345	Fencing	Providing and fixing including loading , unloading & transportation of FRP Fencing including Florescent Sticker(two meter in each post),Supply of Latch Lock, Supply of Hings,Supply of SS Lock with Key excluding civil works as per TPNODL specification.	M2	774264					
346	Trimming	Trimming of tree branches in the vicinity of 33/11/LT lines and removal of branches from site to suitable place	EA	10000					
347	Dismantling	Dismantling of existing 33/11kV, 3.15/5 MVA Three Phase Power Transformer with associated accessories including disconnection of all terminations and connections etc. Scope of work also includes loading, transportation, unloading and stacking at a proper place/ site and finally at TPNODL store / as per instruction of EIC. Transporation- within same grid/ location	Nos	10					
348	Dismantling	Dismantling of existing 33/11kV, 8/10 MVA Three Phase Power Transformer with associated accessories including disconnection of all terminations and connections etc. Scope of work also includes loading, transportation, unloading and stacking at a proper place/ site and finally at TPNODL store / as per instruction of EIC. Transporation- within same grid/ location	Nos	10					



349	Dismantling	Dismantling of existing 11kV, VCB with associated with associated accessories including disconnection of all terminations and connections etc. Scope of work also includes loading, transportation, unloading and stacking at a proper place/ site and finally at TPNODL store / as per instruction of EIC. Transportation- within same grid/ location	NOS	32						
350	Dismantling	Dismantling of existing 33kV, VCB with associated with associated accessories including disconnection of all terminations and connections etc. Scope of work also includes loading, transportation, unloading and stacking at a proper place/ site and finally at TPNODL store / as per instruction of EIC. Transportation- within same grid/ location	NOS	32						
351	Dismantling	Dismantling of 33 KV AB Switch, Isolator with Handle & Accessories and loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store / as per instruction of EIC. Transportation- within same grid/ location	NOS	238						
352	Dismantling	Dismantling of 33 KV AB Switch, Isolator with Handle & Accessories and loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store / as per instruction of EIC. Transportation- within same grid/ location	NOS	25						
353	Dismantling	Dismantling of existing 11kV, CT with associated accessories including disconnection of all terminations and connections etc. Scope of work also includes loading, transportation, unloading and stacking at a proper place/ site and finally at TPNODL store / as per instruction of EIC. Transportation- within same grid/ location	NOS	100						
354	Dismantling	Dismantling of existing 33kV, CT with associated accessories including disconnection of all terminations and connections etc. Scope of work also includes loading, transportation, unloading and stacking at a proper place/ site and finally at TPNODL store / as per instruction of EIC. Transportation- within same grid/ location	NOS	100						
355	Dismantling	Dismantling of existing 11kV, PT with associated accessories including disconnection of all terminations and connections etc. Scope of work also includes loading, transportation, unloading and stacking at a proper place/ site and finally at TPNODL store / as per instruction of EIC. Transportation- within same grid/ location	NOS	50						
356	Dismantling	Dismantling of existing 33kV, PT with associated accessories including disconnection of all terminations and connections etc. Scope of work also includes loading, transportation, unloading and stacking at a proper place/ site and finally at TPNODL store / as per instruction of EIC. Transportation- within same grid/ location	NOS	50						

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357	Dismantling	Dismantling of existing 33/11kV, CT-PT combined unit (ME) with associated accessories including disconnection of all terminations and connections etc. Scope of work also includes loading, transportation, unloading and stacking at a proper place/ site and finally at TPNODL store / as per instruction of EIC. Transportation- within same grid/ location	NOS	50					
358	Dismantling	Dismantling of existing 33KV, Isolator with associated structure, accessories including disconnection of all terminations and connections etc. Scope of work also includes loading, transportation, unloading and stacking at a proper place/ site and finally at TPNODL store / as per instruction of EIC. Transportation- within same grid/ location	NOS	50					
359	Dismantling	Dismantling of existing 11kV, Isolator with associated structure, accessories including disconnection of all terminations and connections etc. Scope of work also includes loading, transportation, unloading and stacking at a proper place/ site and finally at TPNODL store / as per instruction of EIC. Transportation- within same grid/ location	NOS	400					
360	Dismantling	Dismantling of existing power cable includes loading, transportation, unloading and staking at a proper place/ site and finally at safe place/ site and finally at TPNODL store as per instruction of EIC. Transportation- within same grid/ location	KG	2000					
361	Dismantling	Dismantling of control relay Panel, HT switch board, ACDB, DCDB (Per panel/vertical) with associated accessories including disconnection of all terminations and connections etc. Scope also includes loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store as per instruction of EIC. Transportation- within same grid/ location	NOS	100					
362	Dismantling	Dismantling of all size of Battery with Charger with associated accessories including disconnection of all terminations and connections etc. Scope also includes loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store as per instruction of EIC. Transportation- within same grid/ location	SET	50					
363	Dismantling	Dismantling of existing 33/0.4kV, upto 250 KVA Three Phase Distribution Transformer including removal of HT/LT leads, earth connections etc. And unloading by crane if required. Scope of work also includes loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL Store as per instruction of EIC. Transportation- within same grid/ location	NOS	50					

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364	Dismantling	Dismantling of existing 33/0.4kV, 500 to 750 KVA Three Phase Distribution Transformer including removal of HT/LT leads, earth connections etc. And unloading by crane if required. Scope of work also includes loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL Store as per instruction of EIC. Transporation- within same grid/ location	EA	50					
365	Dismantling	Dismantling of existing LTDB of 11/0.4kV, 63-630 kVA Three Phase Distribution Transformer including removal of HT/LT leads, earth connections etc. and unloading by crane if required. Scope of work also includes loading, transportation, unloading and staking at a proper place in TPNODL store as per instruction of EIC. Transporation- within same grid/ location	SET	2000					
366	Dismantling	Dismantling of ACB(air circuit breaker) including removal of all Electric/Earth connections etc., loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store as per instruction of EIC. Transporation- within same grid/ location	NOS	500					
367	Dismantling	Dismantling of 11 kV GO/AB Switch including removal of all Electric/Earth connections etc., loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store as per instruction of EIC. Transporation- within same grid/ location	NOS	300					
368	Dismantling	Dismantling of Lightening Arrester(LA) 9KV 5KA including removal of all Electric/Earth connections etc., loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store as per instruction of EIC. Transporation- within same grid/ location	NOS	200					
369	Dismantling	Dismantling of Lightening Arrester(LA) 30KV 10KA including removal of all Electric/Earth connections etc., loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store as per instruction of EIC. Transporation- within same grid/ location	NOS	330					
370	Dismantling	Dismantling of AAAC 55sqmm conductor from overhead line, recoiling, loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store as per instruction of EIC. Transporation- within same grid/ location	KG	60196					
371	Dismantling	Dismantling of AAAC 80sqmm conductor from overhead line, recoiling, loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store as per instruction of EIC. Transporation- within same grid/ location	KG	82622					

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372	Dismantling	Dismantling of AAAC 100sqmm conductor from overhead line, recoiling, loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store as per instruction of EIC. Transportation- within same grid/ location	KG	73984					
373	Dismantling	Dismantling of AAAC 148sqmm conductor from overhead line, recoiling, loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store as per instruction of EIC. Transportation- within same grid/ location	KG	40832					
374	Dismantling	Dismantling of AAAC 232sqmm conductor from overhead line, recoiling, loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store as per instruction of EIC. Transportation- within same grid/ location	KG	1454					
375	Dismantling	Dismantling of PCC/PSC Pole after digging the pit and taking out the pole, refilling the pit with loose earth and ramming. Scope also include crushing of broken Pole and removal & disposal of malba at proper location as per instruction of EIC. Transportation- within same grid/ location	NOS	2540					
376	Dismantling	Dismantling of 8-13 Mtr. RS Joist Pole after digging the pit and taking out the pole, transportation and stacking the pole at proper place/ site and finally at TPNODL store as per instruction of EIC. the scope also includes refilling the pit with loose earth and ramming, removal and disposal of malba. Transportation- within same grid/ location	NOS	2540					
377	Dismantling	Dismantling/Removal of all hardware fittings & Insulator etc. from HT Single Pole including loading, transportation, unloading and staking of dismantled material at a proper place/ site and finally at TPNODL store as per instruction of EIC. Transportation- within same grid/ location	NOS	3564					
378	Dismantling	Dismantling / Removal of all hardware fittings & Insulator etc. from Double Pole Structure including loading, transportation, unloading and staking of dismantled material at a proper place/ site and finally at TPNODL store as per instruction of EIC. Transportation- within same grid/ location	SET	1000					
379	Dismantling	Dismantling/Removal of all hardware fittings & Insulator etc. from Triple Pole Structure including loading, transportation, unloading and staking of dismantled material at a proper place/ site and finally at TPNODL store as per instruction of EIC. Transportation- within same grid/ location	NOS	500					
380	Dismantling	Dismantling/Removal of all hardware fittings & Insulator etc. from Four Pole Structure including loading, transportation, unloading and staking of dismantled material at a proper place/ site and finally at TPNODL Store as per instruction of EIC. Transportation- within same grid/ location	NOS	500					

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381	Dismantling	Dismantling of existing Street Light fixture and loading, transportation, unloading and staking at a proper place/ site and finally atTPNODL Store as per instruction of EIC. Transportation- within same grid/ location	NOS	1000					
382	Dismantling	Dismantling of Steel Structure and Nuts and Bolt including loading, transportation, unloading and staking of dismantled material at a proper place/ site and finally at TPNODL store as per instruction of EIC. Transportation- within same grid/ location	KG	20000					
383	Dismantling	Dismantling of 11kV Pin Insulator with Pin including loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store as per instruction of EIC. Transportation- within same grid/ location	SET	5000					
384	Dismantling	Dismantling of 11kV Disc Insulator with Hardware including loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store as per instruction of EIC. Transportation- within same grid/ location	SET	5000					
385	Dismantling	Dismantling of Danger Board including removal of all Electric/Earth connections, loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store as per instruction of EIC. Transportation- within same grid/ location	NOS	5000					
386	Dismantling	Dismantling of the G.I. & stay Wire as per standard practice of TP Northern Orissa Distribution Co. Ltd. including recoiling loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store as per instruction of EIC.Transportation- within same grid/ location	KG	5000					
387	Dismantling	Dismantling of HT AL Bus bar mounted on 11kV insulator with re-openable insulation cover including removal of all Electric/Earth connections, loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL as per instruction of EIC. Transportation- within same grid/ location	NOS	1000					
388	Dismantling	Dismantling of Fencing structure and loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL Store as per instruction of EIC. Transportation- within same grid/ location	KG	10000					
389	Dismantling	Dismantling of Clamps and Connectors- Mini Wedge connector/C Wedge connector/PG Clamp/T Clamp including loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store. Transportation- within same grid/ location	NOS	2500					

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390	Dismantling	Dismantling of 20/25/32/40/45/50/100/150 mm Dia GI Pipe including loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store. Transportation- within same grid/ location	Meter	3000					
391	Dismantling	Dismantling of Metering Cubicle including removal HT/LT lead, earth connections, loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store. Transportation- within same grid/ location	NOS	200					
392	Dismantling	Dismantling of the G.I.Wire 7/8 SWG as per standard practice of TPNODL including recoiling loading, transportation, unloading and staking at a proper place/ site and finally at TPNODL store. Transportation- within same grid/ location	KG	10000					
393	Dismantling	Dismantling of different size of control cables including loading, transportation, unloading and staking of dismantled material at a proper place/ site and finally at TPNODL store. Transportation- within same grid/ location	METER	21000					
394	Dismantling	Dismantling of Steel Structure and Nuts and Bolt including loading, transportation, unloading and staking of dismantled material at a proper place/ site and finally at TPNODL store. Transportation- within same grid/ location	KG	207086					
395	Transportation	Transportation of various items from TPNODL store /site to other site or vice versa in TPNODL operational area - Tempo 709 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. (Price per Truck/tempo) (Up to 50 KM)	EA	50					
396	Transportation	Transportation of various items from TPNODL store /site to other site or vice versa in TPNODL operational area - Tempo 709 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. (Price per Truck/tempo) (up to 100 KM)	EA	50					
397	Transportation	Transportation of various items from TPNODL store /site to other site or vice versa in TPNODL operational area - Tempo 709 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. (Price per Truck/tempo) (up to 150 KM)	EA	50					

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398	Transportation	Transportation of various items from TPNODL store /site to other site or vice versa in TPNODL operational area - Tempo 709 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. (Price per Truck/tempo) (up to 200 KM)	EA	50					
399	Transportation	Transportation of various items from TPNODL store /site to other site or vice versa in TPNODL operational area - Tempo 709 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. (Price per Truck/tempo) (> 200 KM)	EA	50					
400	Transportation	Transportation of various items from TPNODL store / site to other site or vice versa in TPNODL 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. EIC approval is required. (Price per Truck/tempo) (upto 50KM)	EA	50					
401	Transportation	Transportation of various items from TPNODL store / site to other site or vice versa in TPNODL 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. EIC approval is required. (Price per Truck/tempo) (up to 100 KM)	EA	50					
402	Transportation	Transportation of various items from TPNODL store / site to other site or vice versa in TPNODL 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. EIC approval is required. (Price per Truck/tempo) (up to 150 KM)	EA	50					

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403	Transportation	Transportation of various items from TPNODL store / site to other site or vice versa in TPNODL 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. EIC approval is required. (Price per Truck/tempo) (up to 200 KM)	EA	50					
404	Transportation	Transportation of various items from TPNODL store / site to other site or vice versa in TPNODL 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. EIC approval is required. (Price per Truck/tempo) (> 200 KM)	EA	50					
405	Transportation	Transportation of various items from TPNODL Store /site to other site or vice versa in TPNODL. Operational area - Three wheeler /ACE 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 (Price per Truck/tempo). EIC approval is required. (upto 30KM)	EA	50					
406	Transportation	Transportation of various items from TPNODL Store /site to other site or vice versa in TPNODL. Operational area - Three wheeler /ACE 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 (Price per Truck/tempo). EIC approval is required. (upto 50KM)	EA	50					
407	Transportation	Transportation of various items from TPNODL Store /site to other site or vice versa in TPNODL. Operational area - Three wheeler /ACE 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 (Price per Truck/tempo). EIC approval is required. (upto 75KM)	EA	50					

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408	Transportation	Transportation of various items from TPNODL Store /site to other site or vice versa in TPNODL. Operational area - Three wheeler /ACE 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 (Price per Truck/tempo).EIC approval is required. (up to 100KM)	EA	50					
409	Transportation	Transportation of Power transformer (up to 5MVA) including Loading of transformer on low bed trailer at site using required T&P and wooden sleepers from the loading point (as per TATA Power-DDL project in-charge instructions) within 50 Kms at TATA Power-DDL site or stores, Unloading of same PTR. Insurance during transportation shall be in TATA Power-DDL scope.	EA	50					
410	Transportation	Transportation of Power transformer (up to 5MVA) including Loading of transformer on low bed trailer at site using required T&P and wooden sleepers from the loading point (as per TATA Power-DDL project in-charge instructions) within 100 Kms at TATA Power-DDL site or stores, Unloading of same PTR. Insurance during transportation shall be in TATA Power-DDL scope.	EA	50					
411	Transportation	Transportation of Power transformer (greater than 5MVA & up to 10 MVA) including Loading of transformer on low bed trailer at site using required T&P and wooden sleepers from the loading point (as per TATA Power-DDL project in-charge instructions) within 50 Kms at TATA Power-DDL site or stores, Unloading of same PTR. Insurance during transportation shall be in TATA Power-DDL scope.	EA	50					
412	Transportation	Transportation of Power transformer (greater than 5MVA & up to 10 MVA) including Loading of transformer on low bed trailer at site using required T&P and wooden sleepers from the loading point (as per TATA Power-DDL project in-charge instructions) within 100 Kms at TATA Power-DDL site or stores, Unloading of same PTR. Insurance during transportation shall be in TATA Power-DDL scope.	EA	50					
413	Transportation	Transportation of Power transformer (greater than 10MVA & up to 16 MVA) including Loading of transformer on low bed trailer at site using required T&P and wooden sleepers from the loading point (as per TATA Power-DDL project in-charge instructions) within 50 Kms at TATA Power-DDL site or stores, Unloading of same PTR. Insurance during transportation shall be in TATA Power-DDL scope.	EA	10					

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414	Transportation	Transportation of Power transformer (greater than 10MVA & up to 16 MVA) including Loading of transformer on low bed trailer at site using required T&P and wooden sleepers from the loading point (as per TATA Power-DDL project in-charge instructions) within 100 Kms at TATA Power-DDL site or stores, Unloading of same PTR. Insurance during transportation shall be in TATA Power-DDL scope.	EA	10					
415	Crane	Hiring of crane for Loading/ Unloading of heavy equipment's like HT panel, Transformer, LT board, Cable drum/Conductor Drum,etc,EIC approval is required.	HOUR	200					
416	Transportation	Loading, transportation and Unloading of JOIST Pole of 9-13 Mtr long from TPNODL store /site to other site or vice versa - price per Pole.EIC approval is required. (up to 30KM)	EA	1000					
417	Transportation	Loading, transportation and Unloading of JOIST Pole of 9-13 Mtr long from TPNODL store /site to other site or vice versa - price per Pole.EIC approval is required. (up to 50KM)	EA	1000					
418	Transportation	Loading, transportation and Unloading of JOIST Pole of 9-13 Mtr long from TPNODL store /site to other site or vice versa - price per Pole.EIC approval is required.(upto 75KM)	EA	1000					
419	Transportation	Loading, transportation and Unloading of JOIST Pole of 9-13 Mtr long from TPNODL store /site to other site or vice versa - price per Pole.EIC approval is required.(upto 100KM)	EA	1000					
420	Barricading	Providing and Fixing Steel Barricading for Cable Trench/Pole Pit including loading and unloading as per TPNODL and statutory requirement.	METER	5000					
421	Debris removal	Removal & disposal of Debris of other agency (Not applicable where removal and disposal is mentioned in the item rate)	M3	2000					
422	Digging pit	Digging (150 cm x 60 cm) test pit in Bricks/Footpath for locating lillo and identifying faulty cable. Scope also includes back filling, ramming, levelling and removal of malba after jointing. (If it is used in trenchless, only unsuccessful test pit will be payable)	NOS	200					
423	Digging pit	Digging (150 cm x 60 cm) test pit in Carpet Road for locating lillo and identifying faulty cable. Scope also includes back filling, ramming, levelling and removal of malba after jointing. (If it is used in trenchless, only unsuccessful test pit will be payable)	NOS	200					

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424	Digging pit	Digging (150 cm x 60 cm) test pit in CC/Dense Carpeted bituminous for locating lillo and identifying faulty cable. Scope also includes back filling, ramming, levelling and removal of malba after jointing. (If it is used in trenchless, only unsuccessful test pit will be payable)	NOS	200					
425	Dragging	Dragging of existing or new 33/11 kV, 5/8/10 MVA Three Phase transformer using having labour where transportation/loading & unloading by crane is not feasible.	M	200					
426	Earthing	SITC including loading , unloading & transportation of portable earthing set and other accessories complete as per TPNODL specification.	SET	30					
427	Earthing	Sagging/Stringing/Drawing of GI wire 7/10SWG for earthing of equipment's /structure as per TPNODL specification/drawing.	KG	18000					
428	Excavation	Digging of Joint Pit as required and docketing of joint with bricks & sand as per TPNODL specification/requirement, include refilling loose earth, ramming the surface, removal of malba etc. Scope also include supply of all required material.	M2	2000					
429	Fencing	"Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia having 50 no rounds per 6 metre length on existing angle iron 'Y' shaped". (Unit shall be in meter)	METER	2000					
430	Fire Bucket	Supply and Installation of Fire Bucket including supply of sand by means of proper hooks clamps etc. as required (price per bucket). Scope exclude supply of hooks/clamps/MS stand	NOS	250					
431	Fire extinguisher	Supply, Installation of Fire Extinguisher CO2-4.5KG by means of proper hooks clamps etc. as required including providing of grouting material (cement etc.) and painting of hooks/clamps.	NOS	250					
432	Fire extinguisher	Supply, Installation of Fire Extinguisher Dry Powder-4.5KG by means of proper hooks clamps etc. as required including providing of grouting material (cement etc.) and painting of hooks/clamps.	NOS	250					
433	Heavy Labour	Providing heavy labour(8-10Person) for shifting and installation of Transformer/Switchgear Panel etc. equipped with chain block, tripod, required accessories, safety PPE etc. (price per Transformer/Switchgear panel)	EA	50					
434	Painting	Painting of existing fencing Structure with one coat of red oxide & two coats of synthetic paint as per TPNODL specification /.The scope includes supply of ISI marked Paint	M2	2500					
435	First Aid	Supply & Fixing of First Aid Chart	NOS	250					

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436	DTR	SITC including loading , unloading & transportation of of template for transformer maintenance record . MS Steel sheet of size(L-45CmXB-30Cm and Thickness 2mm)	NOS	352					
437	Other s	Detail survey of 33/11KV PSS, profile plotting,equipment,pole spotting and preparation of equipment, pole schedule, route drawing,layout,BOM and other required details in soft and hard copy.	EA	250					
438	Other s	Detail survey of 33KV line ,profile plotting, pole spotting and preparation of pole schedule, route drawing,layout,BOM and other required details in soft and hard copy.	KM	100					
439	Oil Filtration	Oil-Filtration/de-hydration of transformer oil using quality oil filtration machine as per TATA Power-DDL project in-charge instructions	L	276000					
440	33kV RMU	ITC of 33kV RMU along with all associated work. This is excludng Civil Work.	EA	5					
441									
442	Civil	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level including removal of rubbish to the designated place by Local Statutory Body as per direction of Engineer-in-charge.	M2	500					
443	Civil	Demolishing <b>cement concrete</b> manually/ by mechanical means including disposal of material to the designated place by Local Statutory Body as per direction of Engineer-in-charge, at all heights, as per direction of Engineer - in - charge.	M3	20					
444	Civil	Demolishing <b>R.C.C. work</b> manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material to the designated place by Local Statutory Body as per direction of Engineer-in-charge.	M3	20					
445	Civil	Dismantling of all type of floor and dado <b>tiles</b> including bedding,all complete at all locations including disposal of debris out side of building to the designated place by Local Statutory Body as per direction of Engineer-in-charge., rate shall be inclusive of man, material, scaffolding, disposal of debris to designated place complete	M2	100					
446	Civil	Demolishing <b>brick work</b> including plaster manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the designated place by Local Statutory Body as per direction of Engineer-in-charge.	M3	30					

447	Civil	Demolishing / removing <b>Plaster</b> of various thickness and transporting debris to the designated place by Local Statutory Body as per direction of Engineer-in-charge. including providing scaffolding, ladders, tools, tackles and pneumatic equipment as directed	M2	200					
448	Civil	Carefully Dismantling of <b>Sanitary Items such as but not limited to WC Pan, Urinal, Washbasins</b> all complete including stacking of serviceable materials upto a lead of 50m at scrap yard and disposal of unserviceable material to the designated place by Local Statutory Body as per direction of Engineer-in-charge.	No	20					
449	Civil	Demolishing <b>Rubble Soling</b> / Pitching upto 300 mm thickness and transporting debris within companies premises or as directed including providing tools, tackles and pneumatic equipment as directed	M3	20					
450	Civil	Carefully Dismantling of <b>Aluminium partition</b> all complete including stacking of serviceable materials upto a lead of 50m at scrap yard and disposal of unserviceable material to the designated place by Local Statutory Body as per direction of Engineer-in-charge.	M2	10					
451	Civil	Dismantling and neatly stacking <b>structural steel work</b> of roof trusses, purlins, beams, columns, chequered plate floorings, treads, risers, stringers, bracings, runners, fencing posts etc. at all heights including providing all accessories complete as directed. Contractor shall use his own welding set, gas cutting set, gas, electrodes, drill machine and other accessories, required for carrying out the entire work. The rate shall include returning the dismantled members to owner's stores at division etc. complete as directed.	MT	10					
452	Civil	Dismantling <b>expanded metal</b> or I.R.C. fabrics with necessary battens and beading including stacking the serviceable material within 50 metres lead.	M2	10					
453	Civil	Dismantling manually/ by mechanical means including stacking of serviceable material within 50 metres lead and disposal of unserviceable material to the designated place by Local Statutory Body as per direction of Engineer-in-charge.: Water bound macadam road	M2	100					
454	Civil	Dismantling <b>stone slab flooring</b> laid in cement mortar including stacking of serviceable material and disposal of unserviceable material to the designated place by Local Statutory Body as per direction of Engineer-in-charge..	M2	50					
455	Civil	Dismantling <b>barbed/RBT/concertina wire</b> or flexible wire rope in fencing including stacking of serviceable material and disposal of unserviceable material to the designated place by Local Statutory Body as per direction of Engineer-in-charge..	KG	500					

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456	Civil	Dismantling and removal of <b>chainlink fencing</b> including returning the dismantled members to owner's stores at division etc. complete as directed. including scaffolding as per safety standards etc. complete as directed.(Rate shall inclusive of providing necessary tools tackles, cutting set, welding set wherever required) as directed by EIC	M2	100					
457	Civil	Dismantling and stacking <b>AC or CGI sheets</b> on roofs or partitions excluding removal of wooden or steel frame work, angle supports etc. complete. (Rate including stacking of serviceable material within 50 metres lead and disposal of unserviceable material to the designated place by Local Statutory Body as per direction of Engineer-in-charge)	M2	500					
458	Civil	Dismanting and stacking including <b>removal of wooden</b> or steel frame work,angle supports etc. complete as directed for Roof truss / Cladding frames etc. (Rate including stacking of serviceable material within 50 metres lead and disposal of unserviceable material to the designated place by Local Statutory Body as per direction of Engineer-in-charge)	M2	500					
459	Civil	Dismanting and stacking including <b>removal of wooden</b> or steel frame work,angle supports etc. complete as directed for Doors / Windows / Ventilators.	M2	20					
460	Civil	Demolishing <b>Asphalt Surface</b> of various thickness and transporting debris to the designated place by Local Statutory Body as per direction of Engineer-in-charge, including providing tools, tackles and pneumatic equipment as directed by EIC	M3	20					
461	Civil	Removing / dismantling old corroded GI pipe line size 12mm to 50mm dia. Work includes transportation to company store etc.	M	100					
462	Civil	Dismantling of Rolling Shutter & stacking the same withing 50M lead as per direction of EIC and refixing the same with necessary repair	M2	80					
463	Civil	Making chases upto 50 mm x 50mm in walls including making good and finishing with matching surface after housing Pipe / conduits etc at all level over Brick Masonry, RCC, PCC.	M	500					
464	Civil	Making chases in walls for replacing, repairing pipes / conduits at all levels on vertical and horizontal faces with necessary staging to conceal GI conduits including finishing back the surface either smooth or sand faced over Brick masonry, PCC, RCC	M	250					
465	Civil	Making of hole upto 200mm dia, in brick masonry wall upto 300mm width at all heights, for Laying of Cable from Substation wall including sealing the annular space with cement mortar 1:4of the cable (Price per hole)	No	100					

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466	Civil	Cutting holes up to 45x45 cm in walls for exhaust fan/Cable entry/exit/crossing inside the room including making good the same with necessary brick masonry in CM 1:5 and plaster in CM 1:4 as directed by EIC.	No	50					
467	Civil	Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge.	No	20					
468	Civil	Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 450 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge.	No	20					
469	Civil	Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 600 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge.	No	20					
470	Civil	Earth work in excavation in all kinds of soil by mechanical means (Hydraulic excavator) / manual means including removing vegetation, dressing of sides and ramming of bottoms including dewatering (both for sub-soil water& rain water) wherever required by means of suitable capacity of pump & pipe lines during excavation, concreting & also keeping the earth dry till the construction is over including close timbering including strutting, shoring and packing cavities (wherever required) etc. complete and disposal of excavated Earth to the designated place by Local Statutory Body as per direction of Engineer-in-charge and lift upto 1.5m, disposed Earth to be levelled and neatly dressed	M3	500					
471	Civil	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials. All kinds of soil.	M3	250					
472	Civil	Excavation in all types of hard rock with mechanical equipment rock breaker including all necessary permissions, depositing / stacking of all materials, removal of vegetation, backfilling with excavated earth in layers, well watered, compacted, transporting of surplus excavated material for backfilling or stacking or spreading or removal of surplus excavated earth to the designated place by Local Statutory Body as per direction of Engineer-in-charge for all depths	M3	50					

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473	Civil	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil to the designated place by Local Statutory Body as per direction of Engineer-in-charge: Pipes, cables etc. <b>exceeding 80 mm dia. but not exceeding 300 mm dia</b>	M	150					
474	Civil	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil to the designated place by Local Statutory Body as per direction of Engineer-in-charge: Pipes, cables etc. <b>exceeding 300 mm dia but not exceeding 600 mm</b>	M	150					
475	Civil	Hiring Excavator (JCB or equivalent) with operator & helper including fuel, consumables and carrying out the work as directed by EIC. The rates quoted shall include necessary mobilisation and demobilisation. Actual working hours shall be recorded and considered for payment. Unit of Measure Day means 8 hrs working	Day	20					
476	Civil	Hiring Excavator (EX-200 or equivalent) with operator & helper including fuel, consumables and carrying out the work as directed by EIC. The rates quoted shall include necessary mobilisation and demobilisation. Actual working hours shall be recorded and considered for payment. Unit of Measure Day means 8 hrs working	Day	20					
477	Civil	Hiring crane (Hydra or equivalent) with operator & helper including fuel, consumables and carrying out the work as directed by EIC. The rates quoted shall include necessary mobilisation and demobilisation. Actual working hours shall be recorded and considered for payment. Unit of Measure Day means 8 hrs working	Day	20					
478	Civil	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 100 m at all depths.	M3	300					
479	Civil	Providing and filling in foundation and plinth with <b>good river sand</b> well watered and rammed specification including cost, conveyance, taxes of all material, T & P , labour etc. as directed by the Engineer-in-	M3	300					

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		charge.							
480	Civil	Providing and laying of <b>fine sand</b> in layers along with compaction of the sand and providing all tools, tackles, materials, manpower, cost of loading, transporting, unloading, lifting, shifting and placing the sand at the designated place as directed by Engineer-in-charge	M3	250					
481	Civil	Providing and filling in trenches, plinths etc. in 225 mm thick layers consolidated to 150mm with murrum / suitable filling material approved by EIC, including compaction of backfill by watering and tamping with approved hand or mechanical tampers. (mode of measurement will be Pre & Post work levels. Voids to be deducted at 20% if on truck measurement))	M3	250					
482	Civil	Providing services for Collecting, stacking , screening & respreading of existing yard gravel stone.	M3	150					
483	Civil	Supplying approved chemical emulsion in sealed containers including delivery, diluting and applying for antiweed treatment in yard as specified by manufacturer. ( E )	M2	150					
484	Civil	Supplying, diluting and injecting chemical emulsion PRE CONSTRUCTIONAL ANTI-termite treatment and creating a continuous chemical barrier under and all around the column pits, wall trenches, basement excavation, top surface of plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits etc. complete as per IS codes & specifications (plinth area of the building at ground floor only shall be measured for payment) a) Chlorpyrifos Emulsifiable concentrate 20% with 1% concentration Note : Contractor shall have to furnish from the specified agency carrying out the work under anti-termite treatment a written corporate guarantee on non-judicial stamp paper of Rupees 100 in favour of Owner for the satisfactory performance of the treatment for a period of five years	M2	1500					

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485	Civil	Supplying, diluting and injecting chemical emulsion POST CONSTRUCTIONAL ANTI-termite treatment creating a continuous chemical barrier i/c all the wood work, door frames, wooden cabinets, almirahs, wall mounted cabinets, work stations, wooden partitions etc. (floor area of the building only shall be measured for payment) a) Chlorophyriphos Emulsifiable concentrate 20% with 1% concentration. Note : Contractor shall have to furnish from the specified agency carrying out the work under anti-termite treatment a written corporate guarantee on non-judicial stamp paper of Rupees 100 in favour of Owner for the satisfactory performance of the treatment for a period of five years	M2	500					
486	Civil	Supplying and laying machine crushed 20 mm good quality stone aggregates uniformly spread and compacted.	M3	350					
487	Civil	Supplying and laying machine crushed 65 mm good quality stone aggregates uniformly spread and compacted.	M3	350					
488	Civil	Providing cartage service and transporting, excavated soil, debris, bricks, concrete, scrapwood including loading and unloading and disposing off to the designated place by Local Statutory Body as per direction of Engineer-in-charge . (Note. Payable measurement shall be dismantelled qty. (Voids to be deducted as applicable whenever heap / truck measurements are taken))	M3	300					
489	Civil	Providing and laying 225 or 300 mm thick dry rubble soling with approved quality stones including filling gaps with small chips ramming with hand rammer etc. complete.	M3	50					
490	Civil	Providing and laying 225 or 300 mm thick dry rubble soling with approved quality stones including filling gaps with small chips ramming with hand rammer etc. complete.(Rubble will be supplied by Tata's free of cost / using available rubble at site)	M3	100					
491	Civil	Providing and laying in position cement concrete of grade M-7.5 including the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (Zone - III) : 8 graded stone aggregate 40 mm nominal size).	M3	50					
492	Civil	Providing and laying in position cement concrete of grade M-10 including the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand (Zone - III) : 6 graded stone aggregate 20 mm nominal size).	M3	50					
493	Civil	Providing and laying in position cement concrete of grade M-15 including the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand (Zone - III) : 4 graded stone aggregate 20	M3	50					

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		mm nominal size)							
494	Civil	Providing and laying <b>damp-proof course 40 mm thick</b> with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 12.5 mm nominal size) as directed by EIC	M3	20					
495	Civil	Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M20 with required slump for Raft / footings at all levels including vibrating, curing, providing construction joints, leaving cutouts/ pockets, placing of inserts/ embedments, dewatering wherever necessary etc., complete all as per drawing , including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedments, and as directed by the ENGINEER	M3	500					
496	Civil	Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M20 with required slump for Pedestals, columns, walls at all levels including vibrating, curing, providing construction joints, leaving cutouts/ pockets, placing of inserts/ embedments, dewatering wherever necessary etc., complete all as per drawing , including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedments, and as directed by the ENGINEER	M3	300					
497	Civil	Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M20 with required slump for Beams / slabs at all levels including vibrating, curing, providing construction joints, leaving cutouts/ pockets, placing of inserts/ embedments, dewatering wherever necessary etc., complete all as per drawing , including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedments, and as directed by the ENGINEER	M3	250					

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498	Civil	Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M25 with required slump for Raft / footings at all levels including vibrating, curing, providing construction joints, leaving cutouts/ pockets, placing of inserts/ embedments, dewatering wherever necessary etc., complete all as per drawing , including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedments, and as directed by the ENGINEER	M3	500					
499	Civil	Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M25 with required slump for Pedestals, columns, walls at all levels including vibrating, curing, providing construction joints, leaving cutouts/ pockets, placing of inserts/ embedments, dewatering wherever necessary etc., complete all as per drawing , including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedments, and as directed by the ENGINEER	M3	300					
500	Civil	Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M25 with required slump for Pardis / Fins at all levels including vibrating, curing, providing construction joints, leaving cutouts/ pockets, placing of inserts/ embedments, dewatering wherever necessary etc., complete all as per drawing , including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedments, and as directed by the ENGINEER .	M3	250					
501	Civil	Providing and fixing precast reinforced concrete cable trench covers, drain covers, fencing post, etc of class M25 concrete w/c 0.5 (max) leaving cutouts/ pockets, placing of inserts/ embedments, etc., complete all as per drawing including shuttering, vibrating, machine mixing, providing lifting arrangements, placing inserts curing handling, transporting, etc. complete but excluding the cost of providing reinforcement, inserts / embedments, with 30 mm downgraded aggregates. (Cement consumption 7.9 Bag/M3)	M3	50					

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502	Civil	Providing all services and Materials for Excavation & making foundation for RS Joist pole with Cement concrete using 1 part cement, 2 part sand, 4 part 20 mm size stone aggregate chips (1:2:4)- (with 600x400x800 mm including coping) including supply of material as per TPNODL specification. The rate quoted shall include providing shuttering, curing, dewatering and providing temporary support to Poles from start of excavation to completion of curing period	No	100					
503	Civil	Providing all the materials including binding wires, cleaning, bending, cutting, hoisting, placing in position, lapping and binding with 16 SWG annealed soft iron wire or tack welding reinforcement steel for all types of RCC / Precast work irrespective of locations & levels all as per drawings including steel scaffolding, handling and transporting from site stores, complete as directed by using High yield strength deformed bars conforming to IS 1786 - HYSD Bars	MT	50					
504	Civil	Providing all the materials including binding wires, cleaning, bending, cutting, hoisting, placing in position, lapping and binding with 16 SWG annealed soft iron wire or tack welding reinforcement steel for all types of RCC work irrespective of locations & levels all as per drawings including handling and transporting from site stores complete as directed y using Mild Steel bars conforming to IS 432 - M S Bars / rods	MT	10					
505	Civil	Providing and constructing uncoursed rubble masonry in CM 1:5 including leaving inserts / pockets, scaffolding, curing, raking out joints for plastering / pointing complete for 0 to 4.00 Mtrs. High as directed by EIC. (Cement consumption 2.26 bag/M3)	M3	50					
506	Civil	Providing & laying 1st class non modular fly ash bricks conforming to IS:12894, class designation 7.5 average compressive strength in foundation and plinth thoroughly soaked in water, with Cement mortar 1:5 (1 cement : 5 coarse sand) including racking out joints, curing etc. complete as directed by the Engineer-in-charge.	M3	500					
507	Civil	Providing & laying 1st class non modular fly ash bricks conforming to IS:12894, class designation 7.5 average compressive strength above plinth at all heights, thoroughly soaked in water, with Cement mortar 1:5 (1 cement : 5 coarse sand) including scaffolding, racking out joints, curing etc. complete as directed by the Engineer-in-charge.	M3	500					

508	Civil	Providing all material and constructing brick masonry 115 mm. thick and in cement mortar (1:4) using approved quality, class 7.5 conforming to IS:3102 table moulded bricks (Fly Ash Bricks), including leaving inserts / pockets, steel scaffolding, curing, raking joints, etc. Any reinforcement required to be placed shall be paid separately in reinforcement item of this BOQ.	M2	250					
509	Civil	Providing and plastering internal surfaces of concrete and brick work such as walls, ceilings, columns, beams, etc. with cement mortar 1:4 mix finish smooth including providing and erecting steel scaffolding, hacking concrete surface, providing bands, grooves drip moulds, curing, etc - 12 mm thk	M2	2500					
510	Civil	Providing all materials and carrying out sand faced plaster 18 mm thick in two layers( 1st layer 12to14mm 2nd layer 4-6mm) and plastering external surfaces of concrete and brick work such as walls, columns, beams etc. with 1:4 cement mortar, including providing & erecting steel scaffolding, hacking of concrete surfaces, curing including bands, drip moulds, grooves, etc. complete with mixing approved waterproofing compound as per manufacturers' specification	M2	2500					
511	Civil	Providing and fixing Chicken-mesh of 1.5 mm dia steel wire with hexagonal or rectangular openings of 20-25 mm 150 mm wide fixed with U nails 150 mm centre to centre placed and held properly in position at brick and R.C.C joints as per direction of engineer-in-charge.	M2	600					
512	Civil	Providing all the materials and <b>carrying out raised</b> or flush cement pointing in 1:4 cement mortar including providing and erecting steel scaffolding, curing, etc. complete to rubble masonry / rubble pitching as directed by EIC.	M2	50					
513	Civil	Providing all materials, tools tackles and labour, preparing the surface by scrapping / wire brushing to remove loose scales, Applying 3 coats of <b>White Wash</b> of approved Shade & Manufacturer, including necessary steel scaffolding / staging etc. complete as directed by EIC.	M2	1500					
514	Civil	Providing all materials, tools tackles and labour, preparing the surface by scrapping / wire brushing to remove loose scales, Applying 3 coats of waterproof <b>Cement based Paint</b> of approved Shade & Manufacturer Snowcen or equivalent, including necessary steel scaffolding / staging etc. complete as directed by EIC.	M2	2500					

515	Civil	Providing and applying oil bound washable distemper of approved brand and manufacture to give an even shade New work (two or more coats) over and including preparign the surface and applying water thinnable priming coat with cement primer.	M2	1000					
516	Civil	Providing all materials, tools, service etc. including providing and erecting scaffolding at all heights and carrying out <b>Plaster of Paris punning</b> (average 6 mm thk.) to existing walls as well as newly plastered surfaces in perfect line and plumb to prepare them to receive Acrylic emulsion paint.( Walls and Ceiling ) (Internal surfaces) including necessary surface preparation if required	M2	500					
517	Civil	Providing all materials ,tools, tackles such as wire brush, putty blade,sand paper etc. for removing all loosely adhering material from the internal surface of existing wall, ceiling , plastered surface etc. & ensuring substrate should be clean, free from dust, grease & loose material. Moisten the wall with sufficient quantity of clean water prior to application of 1st coat of Birla White Wallcare Putty or equivalent. Allow the 1st coat surface to dry for at least 3 hrs after that rub the surface gently with the putty blade in order to remove all loose particles. Apply 2nd coat of putty, allow the surface to dry for 10-12 hrs after that rub the surface gently with the putty blade in order to remove all loose particles. Total thickness of the coats should be limited to average 1.5 mm thk.This also includes carrying out the work in perfect line and plumb & prepare them to receive paint.	M2	500					
518	Civil	Providing all materials, tools tackles and labour, preparing the surface by scrapping / sand papering to remove loose scales, making the surface to receive exterior quality paint, Applying a coat of approved Primer and Two Coats of Paint. Including necessary scaffolding / staging etc. complete as directed. Paint shall be of First Quality Manufactured by Asian / Burger / Shalimar paints Exterior quality Plastic Emulsion paint	M2	2500					
519	Civil	Providing all materials, tools tackles and labour, preparing the surface by scrapping / sand papering to remove loose scales, making the surface plain by applying 2 coats putty to achieve smooth surface, Applying a coat of approved Primer and Two Coats of Paint. Including necessary scaffolding / staging etc. complete as directed. Paint shall be of First Quality Manufactured by Asian / Burger / Shalimar paints Internal quality Plastic Emulsion paint	M2	2500					

520	Civil	Providing all materials, tools tackles and labour, preparing the surface by scrapping / sand papering to remove loose scales, making the surface plain recieve Applying a coat of approved Primer and Two Coats of Paint on all surfaces. Including necessary scaffolding / staging etc. complete as directed. Paint shall be of First Quality Manufactured by Asian / Burger / Shalimar Synthetic Enamel Paint	M2	500					
521	Civil	Providing all materials, tools tackles and labour, preparing the surface by scrapping / sand papering to remove loose scales, making the surface plain, Applying 2 coats of approved Wooden Polish Including necessary steel scaffolding / staging etc. complete as directed. Paint shall be of First Quality. Wooden polish							
522	Civil	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade : Two or more coats on new work	M2	100					
523	Civil	Providing all the materials laying Indian Patent Stone flooring in M15 grade concrete, including finishing the surface & curing etc. complete as directed by EIC. Avg upto 37 mm thk with Glass strips 5mm thk in panels not exceeding 2.0 sqm (Cement Consumption 0.48 Bag/M2)	M2	500					
524	Civil	<b>Kota stone</b> slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick.	M2	200					
525	Civil	<b>Kota stone</b> slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete. The rates quoted shall be inclusive of providing nosing, anti skid groove on treads complete.	M2	100					
526	Civil	Providing and fixing first quality non-skid <b>ceramic tiles</b> (1st Quality) of Kajaria / Nitco or equivalent tiles approved by owner / to match existing shade in floor laid to line and level on cement mortar 1:5 bedding of average thickness 40mm , floated with matching cement etc. complete of all size upto 600x600mm as approved by owner.	M2	200					

527	Civil	Providing and fixing first quality Glazed <b>Ceramic Tiles</b> (1st Quality) of Kajaria / Nitco or equivalent tiles approved by owner / to match existing shade in floor & dado, laid to line and level on cement mortar 1:5 bedding upto 40mm , floated with matching cement etc. complete of all sizes upto 600x600mm. Rate shall be inclusive of one coat of rough plaster to receive dado tiles.	M2	300					
528	Civil	Providing and fixing first quality ceramic <b>vitrified tiles</b> (1st Quality) of Kajaria / Nitco or equivalent tiles approved by owner to match existing shade in floor laid to line and level on cement mortar 1:4 bedding upto 75mm , floated with matching cement etc. complete of size upto 600 x 600mm.	M2	500					
529	Civil	Providing and fixing 35mm thick machine cut machine polished black <b>kaddappa stone</b> of any sizes for counter / cooking platform with necessary cement mortar bedding and floating with matching colour cement, curing, polishing, cleaning etc or cutting grooves in walls & redoing in CM (1:3) complete as directed by EIC.	M2	50					
530	Civil	Providing half round edge moulding to 18mm thick <b>granite stone</b> counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as directed by EIC. Granite work	M	150					
531	Civil	Providing all services and consumables for cleanig, rubbing and grinding of existing <b>terrazo/mosaic flooring</b> i/c polishing to the desired finish complete at all floor levels as directed by EIC. The rates quoted shall be inclusive of disposing all slush / muck/ debris to designated place as per Engineer In charge	M2	50					
532	Civil	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters ,window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. complete at all levels <b>Granite of any colour and shade</b> . Area of slab over 0.50 sqm.	M2	50					



533	Civil	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters ,window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. complete at all levels. a) <b>Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble.</b> Area of slab over 0.50 sqm.	M2	50					
534	Civil	Providing and fixing in position 18mm thick Mirror polished Granite of approved shade for Doors and window sills and jambs. The rates quoted shall include cutting providing necessary bedding in CM1:4 / adhesive, moulding of edges etc complete	M2	10					
535	Civil	Providing and Fixing Wooden Door / Window frames for cross section of frame upto 125mm x 75mm made of seasoned Sal Wood free from knots, including providing hold fasts, wooden polish / paint as directed by EIC	M	150					
536	Civil	Providing and fixing solid core flush door with frame as stated below in Single leaf 38 mm thk. Marine type of exterior grade as per detailed drawings, approved marine plywood facing on both sides with vision panel, with core of block board all necessary T.W. lipping of door thickness, C.P., Brass and S.S. ball bearing Hinges minimum 4 nos per leaf, fixtures and fastenings, door handles, door locks and laminate finish to the satisfaction of Architect. Laminate shall be 1mm thick on both sides, in one piece without joints or broken edges of make Signature, Greenlam, Century or Marino. cost shall include all necessary hardware and their accessories like door handle, closure, stopper, locking arrangements, tower bolt etc. of make Goderej, Dorma, Enox, Hafele, Ozone or Equivalent and as per approved palette.	M2	60					

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537	Civil	Providing and fixing of single <b>shutter fully glazed door</b> with minimum 12mm thick glass toughened by horizontal process of St. Gobain, Modi Guard . make.the door shall be frameless and including all necessary hardware such as using patch fittings, double action hydraulic heavy duty floor spring IS:6315, door handle on both sides including cost of cutting floors as required. All hardwares shall be of Godrej, Dorma ., whatever necessary and required numbers to complete the job in all respect. as per the instruction of the Architects. Note: Hardware required: H Type SS satin finish push pull door handle for doors (appx 350 mm main door and appx. 200mm cabin doors)	M2	60					
538	Civil	Providing and fixing of <b>double shutter fully glazed door</b> with minimum 12mm thick glass toughened by horizontal process of St. gobain, modi guard . make.the door shall be frameless and including all necessary hardware such as using patch fittings, double action hydraulic heavy duty floor spring IS:6315, door handle on both sides including cost of cutting floors as required. All hardwares shall be of Godrej, Dorma ., whatever necessary and required numbers to complete the job in all respect. as per the instruction of the Architects. Note: Hardware required: H Type SS satin finish push pull door handle for doors (appx 350 mm main door and appx. 200mm cabin doors)	M2	20					
539	Civil	Providing and fixing powder coated aluminum doors part panelled and part louvered or glass 8mm thick ( for all sizes ) Main frame shall be made out of Hollow extruded sections of size 100mm x 75mm x 16 gauge. The louvers shall be made of 5.5mm thick wire glass slided inside suitable aluminum 16 guages channels fixed to main frame by 2 nos. 4 mm aluminum rivets fixed at 45 deg etc. complete.	M2	20					

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540	Civil	Providing and fixing single or double shuttered <b>fully panelled</b> POWDER COATED doors conforming to IS:1868. Main frame shall be made out of aluminum tubes of size 100mm x 45mm x 16 gauge. The shutters shall consist of 45mm x 45mm x 16 gauge top rail and styles, 95mm x 45mm x 16 gauge bottom rail and <b>panelled with Marine plywood</b> sandwiched between 18 gauge <b>Aluminum sheet</b> on <b>both sides</b> including necessary <b>locking</b> arrangement, <b>handles</b> on one or <b>both the shutters</b> , weather strip, floor springs for one or both shutters, tower bolts for one shutter etc. with pivots for each shutter including fixing necessary "PUSH PULL" signs, with rubber woolen felt sealing etc. complete as directed by EIC. Aluminium sections to be of Jindal / Indal make.	M2	20					
541	Civil	Providing and fixing to existing door frames. 25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762 mm X 25 mm or less as per requirement with an average wall thickness of 1 mm ( $\pm 0.3$ mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm ( $\pm 0.1$ mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25 mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places	M2	30					
542	Civil	Extra for <b>providing vision panel</b> not exceeding 0.1 sqm in all type of flush doors (Only area of glass vision panel made in door shutter will be measured) : Rectangular or square	M2	10					
543	Civil	Providing & fixing Aluminium <b>louvered POWDER COATED windows(fixed)</b> conforming IS:1868. Main frame shall be made out of Hollow extruded sections of size 100 mm x 75 mm x 16 gauge. The louvers shall be made of 5.5 mm thick wired glass slided inside suitable aluminium 16 gauge channels fixed to main frame by 2 nos. 4 mm aluminium rivets fixed at 45 Deg.etc. complete.	M2	50					

544	Civil	Providing, Erecting and Fixing Aluminum POWDER COATED <b>fixed windows</b> confirming to IS:1868. Main frame Shall be made out of hollow extruded sections of size 100mm*75mm*16mm gauge and panelled with 50 mm x 45 mm x 16 guage top and bottom rails and styles, approved 5.5mm thick clear or opaque glass. All aluminum sections will be finished with anti corrosive rust proof powder coating of approved quality and shade all as per IS codes or as directed. The rate shall be include of filling any gaps between the frame and the wall with cement mortar 1:1 and restore the same original condition neatly.	M2	20					
545	Civil	Providing and fixing <b>fully glazed sliding</b> POWDER COATED windows. Outer frame shall be of size 100 mm x 45 mm x (16 guage) The 3 track Box Section (20 mm Series) shall consist of a) Bottom rail size 90 mm x 45 mm (16 guage) . b) Sides and top rail 90 mm x 32 mm (16 guage) , and panelled with approved 5.5mm thick clear or opaque glass. including civil works for filling any gaps between the frame and the wall with cement mortar 1:1 and restore the same original condition neatly.	M2	20					
546	Civil	<b>Repairing of aluminum doors/windows/ventilators</b> by changing damaged butt hinges, screws i/c dismantling and refixing the leaf, tightening of corner screws etc. complete job. For repairing <b>up to three leafs</b> at one location (Rate per leaf of any size).	M2	100					
547	Civil	Providing and <b>fixing glazing</b> in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): <b>With float glass panes of 5 mm thickness</b>	M2	100					
548	Civil	<b>Replacing broken window glasses</b> (6 mm thk.) including fixing pins, weather bar and putties of approved quality (including scaffolding if required ) etc. complete.	M2	50					
549	Civil	Providing and fixing of <b>roller blind for window</b> . Providing all equipment, material, tools, tackles etc. for fixing blinds for windows of approved make and shade etc.	M2	50					
550	Civil	Providing and fixing of <b>blind</b> , type: vertical, width: <b>75 mm</b> . Providing all equipment, material, tools, tackles etc. for fixing blinds of approved make and shade etc.	M2	50					
551	Civil	Providing and fixing of sun control film of approved make like Garware or equivalent including providing all equipment, material, tools, tackles etc. for fixing sun film without any air bubbles / scratches.	M2	50					

552	Civil	Providing and fixing powder coated <b>MS wire mesh</b> (22 gauge) with <b>aluminum frame 45mmx45mm x16 gauge</b> etc. complete as directed by EIC.	M2	200					
553	Civil	Providing and fixing powder coated <b>SS wire mesh</b> with <b>aluminum frame 45mmx45mm x16 gauge</b> etc. complete	M2	200					
554	Civil	Providing and fixing powder coated <b>GI mesh</b> (22 gauge) with aluminum frame 45mmx45mm x16 gauge etc. complete	M2	200					
555	Civil	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 KG., for doors, including cost of cutting floors ,embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With stainless steel cover plate minimum 1.25 mm thickness.	No	30					
556	Civil	Providing and fixing aluminium extruded section body tubular type universal <b>hydraulic door closer</b> (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete. This item will cover a performance guarantee of 1 year, during this Guarantee period if any malfunctioning is observed the same shall be attended by the vendor within 2 days	No	50					
557	Civil	Providing and fixing stainless steel tower bolts with necessary screws etc. complete. 150 mm on existing door	No	100					
558	Civil	Providing and fixing stainless steel tower bolts with necessary screws etc. complete. 200 mm on existing door	No	100					
559	Civil	Providing & fixing stainless steel Door stopper with necessary screws etc. complete. Twin rubber stopper. on existing door	No	100					
560	Civil	Providing and fixing stainless steel door handel with necessary screws etc. complete 150 mm on existing door	No	100					
561	Civil	Providing heavy duty <b>Iron oxodised fixtures</b> to doors / windows including fixing with nuts, bolts, screws, etc. complete. <b>1) Aldrop - 250mm long</b>	No	100					
562	Civil	CISE,Providing heavy duty <b>Aluminium fixtures</b> to doors / windows including fixing with nuts, bolts, screws, etc. complete. <b>1) Aldrop - 250mm long</b>	No	100					



563	Civil	Providing and fixing <b>aluminium hinges upto 150 mm</b> in aluminium doors / windows / ventilators i/c screws etc. complete	No	300					
564	Civil	Providing and fixing <b>aluminium handle</b> for RHS/LHS aluminium windows of similar finish as for window including cleats, screws etc complete	No	100					
565	Civil	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality).	No	100					
566	Civil	Fixing of available aluminium partition with glass and board including screws, transportation to site etc. complete in all respect as directed by EIC	M2	50					
567	Civil	Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/sqm(both side inclusive), consisting of floor and ceiling channel 50mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete. 75 mm overall thickness partition with 12.5 mm thick double skin fire rated <b>Glass Reinforced Gypsum (GRG) board conforming to IS: 2095: (part 3)</b> : 1996 (Board with BIS certification marks)	M2	200					

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568	Civil	Providing and fixing powder coated aluminum Partition part panelled and partly glass 8mm thick Main frame shall be made out of Hollow extruded sections of size 100mm x 75mm x 16 gauge.	M2	100					
569	Civil	Providing, Erecting and Fixing Aluminum Anodized <b>fixed partition fully glazed</b> confirming to IS:1868. Main frame Shall be made out of hollow extruded sections of size 100mm*75mm*16 gauge and <b>panelled</b> with approved 5.5mm <b>thick Plain or Tinted glass</b> . All aluminum sections will be finished with <b>Powdercoating</b> of approved shade and quality as per IS codes or as directed. The rate shall be include of <b>filling any gaps</b> between the frame and the wall <b>with cement mortar 1:1</b> and restore the same original condition neatly as directed	M2	50					
570	Civil	Providing and fixing 45mm thick panel based partition system of 1200mm ht. having approved quality Aluminium section, rigid frame work. The partition shall have two concealed raceways (at bottom and mid place) in steel and covered in extruded aluminium power plastic caps. The panel should have a combination of 9mm thick pre laminated board, soft pin up board etc. with matching skirtings and aluminium powder coating top trim on the top of the partition complete	M2	20					
571	Civil	Providing and fixing 12 mm thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. Pre-laminated particle board with decorative lamination on both sides.	M2	50					
572	Civil	Providing and fixing in position minimum 12 mm Thk. clear toughened glass partition of st. gobain, modiguard .. Glass to be fixed with metal channels in wall and floor including all required accessories and hardware etc. required to complete the job in all respect. All exposed edges of the glass shall be machine polished. All glass-to-glass joints to be sealed with pre-approved silicon sealants. including skirting made in marine ply finished with Laminate make Marino / Century / Signature, the cost shall include hardware, adhesives and all other accessories required to complete he job in all respect and as desired.	M2	50					

573	Civil	Providing and fixing in position both side <b>Laminated Wooden partition</b> (75 mm finished thickness) made of approved quality Sal wood members, and 12mm thick Ply of approved brand, including scaffolding/access, making cut-out of required sizes and supporting framework for door opening, glass panel as specified in approved drawings and manufacturer specification using metal stud frame sections ,ceiling sections , connecting clip, drywall screws, anchor bolts, backing strips, includes filling and finishing with jointing compound, lippings etc. complete as per architectural drawings and directions of engineer-in-charge.	M2	250				
574	Civil	Providing and fixing suspended Gypsum board ceiling (straight, vertical & curved) consisting of fixing GI perimeter channels of 27mm x0.5mm thick having one flange of 20mm and another flange of 30mm along with perimeter of the ceiling, screws fixed to RCC/ Brick/foam block walls/ gypsum board partitions with the help of rawl plugs and screws. The suspending GI Intermediate channels of size 45x0.55mm th. With two flanges of each from the soffit @1200mm centre with GI hangers of 25mm x 0.5mm thick Fixed to soffit with GI cleat and steel Expansion fasteners and to intermediate channel with GI nut and bolt. Ceiling section of 0.5mm thickness having knurled wedge of 51.5 mm and two flanges of 26mm each with lips of 10.5mm then fixed to the intermediate channel with the help of connecting clips and in direction perpendicular to the intermediate channel at 450mm centers, 12.5mm th. Tapered edge gypsum plaster board (confirming to IS 2095-1982) is then fixed with screws to ceiling section with 25mm dry screws at 230mm centers at the underside of ceiling section framing. Screws to be fixed mechanically either with screw driver or drilling machine with suitable attachment, providing angle beads and edging beads wherever necessary, finishing even appearance. <b>P/f trap doors made of laminated boards with wooden frames, p/f wooden shadow battens (holloc wood, black enamel painted - 25x40mm)</b> at wall peripheries and ends, extra frame work for fixing lights, making cutouts for electrical / HVAC / plumbing works etc. complete.	M2	150				

575	Civil	Providing and fixing false ceiling tiles of approved materials of size 600x600 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 gsm/sqm) consisting of main "T" runner suitably spaced at joints to get required length and of size 24x35 mm made of 0.30 mm thick (minimum) sheet spaced at 1200mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200 x 600 mm and secondary cross "T" of length 600mm and size 24x25mm made of 0.30mm thick(minimum) sheeet to be interlocked at middle of the 1200 * 600 mm pane; to form grids of 600 x 600 mm laying false ceiling tiles of approved texture in the grid including wherever required cutting/making opeing of services like diffusers, grills, light fittings, fixtures, smoke decetors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats fixed to ceiling with 6 mm dia and 50mm long dash fastners, 2.8 mm GI adjustable rods with galvanised level clips spaced at 1200 m center to center main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete at all heights as per specifications drawings and as directed by Engineer - in - Charge. a) with Dune 600x600x16 <b>RH-99 tiles (Tegular Edge./Board edge/Microlook Edge.) of Armstrong make</b>	M2	500					
576	Civil	Providing and Fixing Grid Ceiling made of <b>Cement bonded particle board</b> (Bison or equivalent) size 610mmx610mm, the Aluminium T section of size 30x35mm 1.2mm thick shall be used for framing suspended by 8 SWG wire / .7x12mm GI Flats. Maximum spacing of suspender shall not exceed 1200mm in any direction. Necessary turnbuckles to be provided in suspenders, the panels will have to be painted in dry condition on both sides and the ends in particular before inserting them in the grid. The rates quoted shall include providing necessary hardware, screws , anchor fastners for suspenderd, scaffolding, ladders etc complete	M2	1500					
577	Civil	Providing and fixing Anti static false flooring with load bearing capacity of 1200 kg concentrated load and 2000 kg /sqm distributed load, of Unitile Everest or equivalent consisting of: Stringers made out of die pressed channels 25x25x25 mm with two die pressed notches at the two ends to snap fit to the jack head for 300 mm height	M2	250					

578	Civil	Providing steel and supplying all material, <b>fabricating and erecting structural steel</b> work at all heights including steel scaffolding for roof trusses, purlins, beams, columns, chequered plate flooring, treads, risers, stringers, bracings, runners etc. at all heights including welding and gas cutting, drilling of holes etc. complete as per the approved drawing or as directed. Contractor shall use his own welding set, gas cutting set, gas, electrodes, drill machine and other accessories, required for carrying out the entire work. The rate shall include supply and fixing of MS bolts, and nuts, and washers and applying one coat of Shalimar or any other approved make red oxide (primer) paint to all the exposed surfaces of steel. Structural steel section shall be of primary manufacturer and confirm to IS2062 requirements	MT	50					
579	Civil	Providing, Fabricating and erecting MS gates consisting of MS Sections rolled / plates , including welding of sections as per design approved by the Owner. Fabricating the framework with necessary hinges, locking arrangement including applying two coats of synthetic enamel paint of approved make over one coat of primer. Contractor shall use his own welding set, gas cutting set, gas, electrodes and other accessories, steel scaffolding required to complete the entire job. All steel section shall be of primary manufacturer and confirm to IS 4923 requirements	MT	10					
580	Civil	Providing, Fabricating and erecting MS Sections rolled / plates builtup in , including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. <b>In gratings, frames, guard bar, ladder, railings, brackets</b> , and similar workswelding of sections as per design approved by the Owner. Contractor shall use his own welding set, gas cutting set, gas, electrodes and other accessories, steel scaffolding required to complete the entire job. All steel section shall be of primary manufacturer	MT	10					

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581	Civil	Fabricating and erecting in position, Structural steel work at all heights including steel scaffolding for roof trusses, purlins, beams, columns, chequered plate flooring, treads, risers, stringers, bracings, runners etc. at all heights including welding and gas cutting, drilling of holes etc. complete as directed. Contractor shall use his own welding set, gas cutting set, gas, electrodes, drill machine and other accessories, required for carrying out the entire work. The rate shall include supply and fixing of MS bolts, and nuts, and washers and applying one coat of Shalimar or any other approved make red oxide (primer) paint to all the exposed surfaces of steel. Only structural Steel to be provided by Owner at the nearest store rates quoted shall include necessary carting of free issue material within lead of 5KM	MT	50					
582	Civil	Providing all your equipment, tools and tackles and rendering services including consumables for welding of various steel works viz doors, windows, gates, partitions,grills etc., including hiring charges of welding machine with welder & helper, carriage etc complete in all respect as directed by EIC. (The unit of per day is meant for 8 hours and it shall be paid judiciously on pro-rata basis depending upon the quantum and duration of job but not less than 0.50 day)	DAY	50					
583	Civil	Providing steel and Supplying all material for Fabricating and erecting all types of steel work including welding, gas cutting, grinding, drilling of holes, or other lifting arrangements etc. Contractor shall use his own welding set, gas cutting set, gas, approved quality of welding electrodes, drill machine and other accessories, required for carrying out the entire work. The rate shall include supply and fixing of MS bolts, and nuts, and washers and applying coats of Zinc primer to all the exposed surfaces of steel as directed by EIC. For MS Chequered plates.	MT	10					
584	Civil	Supplying, fabricating, transporting to site and erecting GI grating in position hot dip galvanized members / structures fabricated as per approved drawings including galvanizing the sections (Zinc coating minimum 80-100 micron DFT) / accessories as per specifications and touch up zinc paint after galvanizing in areas where needed / approved after erection.(Grating size 500 shall be as per drawing.All gratings will be supplied by Agency. Agency shall use his own all the tool & tackles to complete the entire work, as per the direction of the site engineer. Agency must approve the sample of grating by TATA Power representative before manufacturing of all the gratings.	MT	10					

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585	Civil	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding.	KG	5000					
586	Civil	Extra for Galvanization of MS structural steel & IRC fencing as per IS 4759	KG	5000					
587	Civil	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.25mm M.S. laths with 1.25 mm thick top cover.	M2	150					
588	Civil	Extra for providing mechanical device chain and crank operation for operating rolling shutters- Exceeding 10.00 sqm and upto 16.80 sqm in the area	No	20					
589	Civil	Providing and fixing stainless steel (Grade 304) gate, grill, railing etc. made of hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, including fixing the gate with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose weight of stainless steel members shall be considered including fixing s.s. accessories such as nuts, bolts, fasteners etc.)	MT	10					
590	Civil	Providing, fabricating and erecting 6 / 8 / 10 mm thick aluminum Chequered plate for platform, flooring, treads, risers, stringers, bracings, runners etc. at all heights including straightening, cutting, grinding, drilling of holes or other lifting arrangements, etc. complete as directed. Contractor shall use his own welding set, gas cutting set, gas, electrodes, drill machine and other accessories, required for carrying out the entire work. The rate shall include supply and fixing of bolts, and nuts' washers and other fixtures etc. complete.	MT	10					

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591	Civil	Providing and fixing IRC fabric (welded mesh) of size 35x75 mm of 10 guage to the frame of MS angles, channels, tees, flats etc. at all floor levels including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer as required. In frames, gates etc. (Cost of MS frame will be paid separately). Fixed to steel frames by welding.	KG	5000					
592	Civil	Providing , stretching and fixing chain link fencing 2" square and of gauge 10 (bare metal thickness) on angle posts with heavy duty GI split pins etc. in position complete as directed at all Heights including steel scaffolding.	M2	2000					
593	Civil	<b>P&amp;F in position Concertina Coil</b> Providing and fixing concertina coil of 610 mm dia., 80 Nos. of circles, 200 Nos. of clips, hot dip galvanized. The wire shall be of 12 SWG tensile wire, covering 10 RM with one coil, each RM will have 8 Nos. of circles, including labour, fixing in position on existing V shaped angles including 2 nos. of guard wires and painting with 2 coats of approved shade paint complete at all heights including scaffolding.	M	3000					
594	Civil	<b>P&amp;F Razor barbed wire</b> Providing and fixing reinforced barbed wire tape (RBT) (2.6mm) thick single wire along the boudary wall / fencing on angle iron post with all necessary fitting such as welding of nuts, bolts, clips, split pins, steel scaffolding, TSP & labour etc.complete.	M	9000					
595	Civil	Providing and fixing <b>G I barbed wire</b> of 10 guage along the boudary wall / fencing on angle iron post with all necessary fitting such as welding of nuts, bolts, clips, split pins, manpower etc.complete	M	9000					
596	Civil	Providing and fixing 150mm dia PVC pipe sleeves	M	300					
597	Civil	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :		0					
598	Civil	100 mm dia. R.C.C. pipe	M	150					
599	Civil	150 mm dia. R.C.C. pipe	M	150					
600	Civil	250 mm dia. R.C.C. pipe	M	200					
601	Civil	300 mm dia. R.C.C. pipe	M	200					
602	Civil	Supplying and fixing C.I. cover without frame for manholes : 455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 KG.	EA	50					
603	Civil	Providing and fixing 20mm dia., 1.2 mtr long each GI rungs as per the directions of Engineer-In-Charge	EA	200					

604	Civil	Providing and fixing soil, waste and vent pipes (Sand cast iron S&S pipe as per IS: 1729)a) 100mm dia	M	250					
605	Civil	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating Earth to an average of 22.5 cm. depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	M2	1500					
606	Civil	P&L Granular Sub Base Providing & laying, spreading & compacting specified crushed stone in granular subbase course including premixing the material in mechanical mixer (pug mill) transportation of mixed material laying in uniform layer of 150mm(compacted to 100mm thickness each) on prepared murum surface & compacting with 10 tonne vibratory roller to achieve desired density of 97%, including all material, labour, machinery, barricading to and maintenance of diversion as required etc.complete (metal gradation from 90mm to 75mm.	M3	450					
607	Civil	Providing, Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road / vibratory roller 8-10 tonne capacity in stages 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 density	M3	300					
608	Civil	P&L Wet Mix Macadam Providing & laying, spreading & compacting specified crushed stone in Wet Mix Macadam including premixing the material in mechanical mixer (pug mill) transportation of mixed material laying in uniform layer of 100mm(compacted to 75mm thickness each) on prepared GSB surface & compacting with 10 tonne vibratory roller to achieve desired density of 97%, including all material, labour, machinery, barricading to and maintenance of diversion as required etc.complete Aggregate Size 53mm down	M3	300					

609	Civil	Providing & Laying Dense Bituminous Macadam, with paver immediately after Crushed aggregate premix with bitumen binder to a proper camber including scarifying base, applying tack coat before laying premix & rolling the same with a 10 Tones roller so as to attain proper compaction (Bitumen content 4% by of total mix) Temperature of bitumen binder shall at the time of mixing shall be 150 degree C to 170 degree C & that of aggregate in range of 55 degrees C & 163 degree C including providing materials, tools, equipment's, etc. (Rate includes laying tack ) 50 mm thick	M2	100					
610	Civil	P/L 12 mm thick premix seal coat Providing & Laying with paver 12 mm thick premix seal coat comprising of a thin application of fine aggregate premix with bituminous binder. Percentage of straight bitumen shall be in the range of 6 to 8% of mix & covered with stone dust so as to obtain a smooth uniform finish including materials, tools, equipment's etc. (Rate includes laying tack coat.)	M2	30					
611	Civil	<b>Scarifying the existing bitumin surface</b> Scarifying the existing bitumin surface including removal of murrum up to a depth of 75 mm & transporting the debris to approved dumping ground as directed by EIC. This item shall be applicable at locations where resurfacing is to be carried out on existing road surface.	M2	1500					
612	Civil	Providing and laying M-25 grade of cement concrete in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete. (Note:- Mini. Cement content shall be 350 KG)	M3	100					
613	Civil	Providing and fixing in position 12mm thick bitumen impregnated fiber board conforming to IS: 1838 including cost of primer, sealing compound in expansion joints.	M2	100					
614	Civil	Providing and filling in position bitumen mix filler of Proportion 80 KG. of hot bitumen, 1 KG. of cement and 0.25 cubic metre of coarse sand for expansion joints.	M3	12.4					
615	Civil	Providing and fixing expansion hold fasteners on C.C. /R.C.C./Brick masonry surface backing including drilling necessary holes and the cost of bolt etc complete. Wedge expansion type Fastener with threaded dia 10 mmx100mm	No	50					
616	Civil	Providing and fixing expansion hold fasteners on C.C. /R.C.C./Brick masonry surface backing including drilling necessary holes and the cost of bolt etc complete. Wedge expansion type Fastener with threaded dia 12 mm x 140mm	No	50					

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617	Civil	Providing and fixing expansion hold fasteners on C.C. /R.C.C./Brick masonry surface backing including drilling necessary holes and the cost of bolt etc complete. Wedge expansion type Fastener with threaded dia 16 mm x150mm	No	50					
618	Civil	Design & detailing, testing and installation of appropriate sizes of reinforcement anchorages or splices fixed into existing hardened concrete by injecting adhesives in drilled holes after cleaning of the holes to connect new reinforcement to existing walls and slab. BA shall visit the site and collect necessary details required for carrying out the work and submit complete proposal for TPNODL approval before execution of work at site. (approved make HILTI) - 16mm	No	50					
619	Civil	Providing and fixing UPVC casing pipe 100mm dia including lowering the same, UPVC socket, adhesive etc complete in all respects.	M	100					
620	Civil	Supplying Installation & testing of submersible pump to be lowered in 100 mm dia casing pipe complete with submersible Motor of 1.50 HP suitable for operation on 400/415 Volt Single phase 50 cycle with following performance: A) Discharge:172 Litres per minute. B) Max. HEAd: 73.00 M. C) RPM: 2900. D) Head discharge: 39.00 to 98.00 M. E) Volt: 220.	No	10					
621	Civil	Providing fixing single phase starter for submersible pump C& F panel & switchgear.	EA	10					
622	Civil	Supplying and Fixing 3X1.50 M2m Copper Conductor flat insulated PVC Connected submersible cable.	M	200					
623	Civil	Boring with 100mm dia. casing pipe for hand pump / tube well, in all soils except ordinary hard rocks requiring blasting, including removing the casing pipe after the hand pump / tube well is lowered and tested : Up to 6 metres depth.	M	60					
624	Civil	Boring with 100mm dia. casing pipe for hand pump / tube well, in all soils except ordinary hard rocks requiring blasting, including removing the casing pipe after the hand pump / tube well is lowered and tested Beyond 6 m and up to 12 m depth.	M	60					
625	Civil	Boring with 100mm dia. casing pipe for hand pump / tube well, in all soils except ordinary hard rocks requiring blasting, including removing the casing pipe after the hand pump / tube well is lowered and tested Beyond 12 m	M	80					
626	Civil	Providing, fixing and lowering HDPE pipe 32 mm dia. Confirming to (IS:14151 [1 & 2] and IS-4984) of reliance or equivalent make including fixing of SS nipple on both ends with the help of rivets, clamping, T&P, labour, material etc. complete. For submersible pumps.	M	400					

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627	Civil	Providing & lowering safety cable for submersible pump	M	600					
628	Civil	Supplying and filling in plinth with local sand under floors, including watering, ramming, consolidating and dressing complete.	M3	140					
629	Civil	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 0.80 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>	M2	200					
630	Civil	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J. or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete. 0.63 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>	M	60					
631	Civil	Providing, placing and fixing profile pre-color coated galvalume RMP sheets or equivalent of 0.5mm total coated thickness to match existing shade (bare galvalume thickness 0.47mm), trough type, zinc aluminum alloy coated (zinc aluminum coating not less than 150g/sqm ), MS high tensile sheet having minimum yield strength of 550MPa including coating of DFT 20 microns over 5 microns primer on exposed surface of sheeting and DFT 5 microns over 5 micron primer on internal surface of sheeting and including all connections and matching fixtures and accessories such as but not limited to J or L bolts & hooks (8 mm, polymer coated), nuts with polymer washers, self tapping screws, protective polymer cap of matching color for bolts, should be supplied in suitable length as desired by Engineer in- charge. The sheet shall be fixed using self drilling /self tapping GI coated screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, etc., complete as per manufacturers recommendations for Sheeting for roof/Side etc.	M2	500					

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632	Civil	Providing, placing and fixing plain pre-color coated galvalume RMP sheets or equivalent of 0.5mm total coated thickness to match existing shade (bare galvalume thickness 0.47mm), plain sheet for flashing , ridges, zinc aluminum alloy coated (zinc aluminum coating not less then 150g/sqm ), MS high tensile sheet having minimum yield strength of 550MPa including coating of DFT 20 microns over 5 microns primer on exposed surface of sheeting and DFT 5 microns over 5 micron primer on internal surface of sheeting and including all connections and matching fixtures and accessories such as but not limited to J or L bolts & hooks (8 mm, polymer coated), nuts with polymer washers, self tapping screws, protective polymer cap of matching color for bolts, should be supplied in suitable length as desired by Engineer in- charge. The sheet shall be fixed using self drilling /self tapping GI coated screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, etc., complete as per manufacturers recommendations for Sheeting for roof/Side etc.	M2	100					
633	Civil	Providing & Fixing asbestos cement 6mm thick corrugated sheets roofing up to any pitch and fixing J or L hooks, bolts and nuts 8mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.	M2	500					
634	Civil	Providing and fixing ridges and hips in asbestos cement sheet roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete. Plain ACC ridges	M	100					
635	Civil	Providing and laying water proofing treatment in sunken portion of WCs, bathrooms, etc., by applying cement slurry mixed with Armourcrete of M/s The Structural Water Proofing Company Pvt. Ltd. or Tapecrete of M/s. CICO Engg. Service or approved equivalent consisting of applying : (a) First layer of slurry of cement @0.488 kg/sqm mixed with Armourcrete or Tapecrete @ 0.253 kg/sqm. This layer shall be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with Armourcrete or Tapecrete @ 0.126 kg/sqm. This layer shall be allowed to air cure for 4 hours followed with water curing for 48 hours. (c) All above operations to be done in order and as directed and specified by the Engineer-in-Charge. Contractor shall give 10 years guarantee on court fee stamp paper of Rs. 1000/-.	M2	200					

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636	Civil	Providing and laying brickbat coba in sunken portion of WCs, bathrooms, etc., consisting of one part of cement, 2 parts of broken brickbats varying from 12 mm to 25 mm thick and one part of lime mortar (one part of lime to two parts of sand) as specified including preparing the surface by applying and grouting a slurry coat of neat cement using 2.75 kg/m <sup>2</sup> of cement admixed with proprietary water proofing compound conforming to IS: 2645 over the RCC slab including cleaning the surface before treatment, necessary watering, ramming, etc. all complete (Rate shall include wattas, finishing, etc.) (Thk/Depth upto 250mm.). All above operations to be done in order and as directed and specified by the Engineer-in-Charge. Contractor shall give 10 years guarantee on court fee stamp paper of Rs. 1000/-.	M3	800					
637	Civil	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests (HINDUSTAN/Parryware MAKE)	No	20					
638	Civil	Providing and fixing white vitreous china pedestal type European water closet (Hindware make:Constellation set white) with seat & lid,10 litres flushing cistern & manually controlled device confirming to the IS-7231 with all fittings & fixtures complete including cutting and making good the walls and floors wherever required.WC pan with ISI marked white sloid plastic seat & lid heavy duty (HINDUSTAN/Parryware MAKE)	No	20					
639	Civil	Providing lip type urinal and flushing valve and bottle trap, lead and GI pipe connections overflow outlet pipes with mosquito proof cover including providing all the materials. etc. complete. (HINDUSTAN/Parryware MAKE)	No	30					
640	Civil	Providing and fixing vitreous china <b>urinal partition</b> of standard design and required color, of Hindustan / Parryware or eq. make using screws etc complete	No	30					

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641	Civil	Providing & fixing white glazed wash basin flatback confirming to IS 2556 (Part IV) of approved make including providing wash basin, C.I brackets, fixed to the wall with rawl plug bolts & screws and painted in two coats of white zinc paint over a coat of red oxide primer, with 15mm C.P. pillar tap as per IS 1795 (1 No.) of approved make, plug & C.P chain, 50mm dia. mosquito proof gratings, 32mm dia. C.P. waste pipe, brass stop cock as per IS 781 of bottle trap with C.P pipe pieces upto wall or floor level plus 40mm lead, waste pipe embedded floor from 32mm CP waste extension pipe to the CI waste shaft on the outside wall, complete with brass union and plumbers wiped soldered joints as directed with necessary cleaning eyes including cutting holes and chasses in the wall and making good the same in CM (1:4) etc. complete as directed. (Hindustan/ Parryware make .) Size 580mm X 450mm	No	20					
642	Civil	Providing and fixing stainless steel sink of size 600 x 450 (19 gauge) single bowl , drain board including 40mm dia. Waste coupling, CP bottle trap, waste flexible pipe up to nahani trap, water tap Jaguar make with aerator and making inlet/outlet connections all complete as per specifications and directions of the Engineer-in-Charge. (For Kitchen / Pantry) [Nirali, parryware ..	No	10					
643	Civil	Providing and fixing stone ware gully traps of 9"x9" size as directed.	No	20					
644	Civil	Providing and fixing heavy duty PVC soap dispenser of standard size .	No	20					
645	Civil	Providing and fixing PVC seat cover to European WC matching with the existing if any	No	20					
646	Civil	Providing and fixing heavy duty CP Jali for nahni trap as directed of size 100mm dia.	No	20					
647	Civil	Providing and fixing 100mm dia CP shower with 300mm long arm .	No	20					
648	Civil	Providing and fixing heavy duty C P Flush valve for flat back Urinals complete matching with existing if any.	No	20					
649	Civil	Providing and fixing 31 mm dia heavy duty CP Bottle trap matching with the existing if any	No	20					
650	Civil	Providing and fixing heavy duty CP pillar cock - Pressmatic type to wash basin size 15mm of approved ISI make as directed.	No	20					
651	Civil	Providing and installation heavy duty jet spray including PVC Connector of approved make with ISI mark as directed.	No	20					
652	Civil	Providing and fixing heavy duty PVC high level / low level flush tank of standard size including all necessary fitting and fixtures of approved make with ISI mark as directed.	No	20					

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653	Civil	Providing and fixing brass connecting rod with PVC ball cock etc. and of 1st quality and of ISI approved make Ball cocks 12mm Dia.	No	20					
654	Civil	Providing and fixing brass connecting rod with PVC ball cock etc. and of 1st quality and of ISI approved make Ball cocks 19mm Dia.	No	20					
655	Civil	Providing and fixing heavy duty CP concealed one way <b>bib cock</b> size 12mm dia. of approved make with ISI mark as directed.	No	20					
656	Civil	Providing and fixing heavy duty CP concealed two way <b>bib cock</b> size 12mm dia. of approved make with ISI mark as directed.	No	20					
657	Civil	Providing and fixing heavy duty CP concealed <b>Angle cock</b> size 12mm dia. of approved make with ISI mark as directed.	No	20					
658	Civil	Providing and fixing heavy duty CP concealed <b>stop cock</b> size 12mm dia. of approved make with ISI mark as directed.	No	20					
659	Civil	Providing and fixing heavy duty CP concealed <b>stop cock</b> size 20mm dia. of approved make with ISI mark as directed.	No	20					
660	Civil	Providing and fixing heavy duty CP concealed <b>stop cock</b> size 50mm dia. of approved make with ISI mark as directed.	No	20					
661	Civil	Providing and fixing heavy duty CP concealed two way <b>Angle cock</b> size 12mm dia. of approved make with ISI mark as directed.	No	20					
662	Civil	Providing and fixing heavy duty CP concealed two way <b>stop cock</b> size 12mm dia. of approved make with ISI mark as directed.	No	20					
663	Civil	Providing all materials, services, tools, tackles, equipment, transport etc. for carrying out misc. plumbing repair works and Replacing float valve of flush tank size 12.5 mm dia.	No	20					
664	Civil	Providing and fixing heavy duty GM gate valve of approved make and ISI mark. complete as directed. (New or Equipment) Size 12 mm dia.	No	20					
665	Civil	Providing and fixing heavy duty GM gate valve of approved make and ISI mark. complete as directed. (New or Equipment) Size 19 mm dia.	No	20					
666	Civil	Providing and fixing heavy duty GM gate valve of approved make and ISI mark. complete as directed. (New or Equipment) Size 25 mm dia.	No	20					
667	Civil	Providing and fixing heavy duty GM gate valve of approved make and ISI mark. complete as directed. (New or Equipment) Size 39 mm dia.	No	20					
668	Civil	Providing and fixing heavy duty GM gate valve of approved make and ISI mark. complete as directed. (New or Equipment) Size 50 mm dia.	No	20					

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669	Civil	Providing and fixing of PVC pipe SCH-80 for down take for 75 mm dia. with necessary bends, sockets, elbows, shoe, holding clamps etc complete.	M	150					
670	Civil	Providing and fixing of PVC pipe SCH-80 for down take for 100 mm dia. with necessary bends, sockets, elbows, shoe, holding clamps etc complete.	M	150					
671	Civil	Providing and fixing of PVC pipe SCH-80 for down take for 150 mm dia. with necessary bends, sockets, elbows, shoe, holding clamps etc complete.	M	150					
672	Civil	Providing & fixing heavy duty CPVC SCH-40 pipes to correct line and level including providing all materials such as required fittings unions. sockets, bends elbows etc. complete , carrying out necessary excavation, backfilling & ramming after testing etc. complete. Make: astral/prince/supreme/Oriplast for 12 mm dia	M	150					
673	Civil	Providing & fixing heavy duty CPVC SCH-40 pipes to correct line and level including providing all materials such as required fittings unions. sockets, bends elbows etc. complete , carrying out necessary excavation, backfilling & ramming after testing etc. complete. Make: astral/prince/supreme/Oriplast for 19 mm dia	M	150					
674	Civil	Providing & fixing heavy duty CPVC SCH-40 pipes to correct line and level including providing all materials such as required fittings unions. sockets, bends elbows etc. complete , carrying out necessary excavation, backfilling & ramming after testing etc. complete. Make: astral/prince/supreme/Oriplast for 25 mm dia	M	150					
675	Civil	Providing & fixing heavy duty CPVC SCH-40 pipes to correct line and level including providing all materials such as required fittings unions. sockets, bends elbows etc. complete , carrying out necessary excavation, backfilling & ramming after testing etc. complete. Make: astral/prince/supreme/Oriplast for 32 mm dia	M	150					
676	Civil	Providing & fixing heavy duty CPVC SCH-40 pipes to correct line and level including providing all materials such as required fittings unions. sockets, bends elbows etc. complete , carrying out necessary excavation, backfilling & ramming after testing etc. complete. Make: astral/prince/supreme/Oriplast for 38 mm dia	M	150					
677	Civil	Providing & fixing heavy duty CPVC SCH-40 pipes to correct line and level including providing all materials such as required fittings unions. sockets, bends elbows etc. complete , carrying out necessary excavation, backfilling & ramming after testing etc. complete. Make: astral/prince/supreme/Oriplast for 50 mm dia	M	150					

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678	Civil	Providing all tools & services for removing, rerouting and Refixing existing GI pipeline of 12 to 25 mm dia including all fittings required for the same.	M	150					
679	Civil	Providing all tools & services for removing, rerouting and Refixing existing GI pipeline of 31 to 50 mm dia including all fittings required for the same.	M	150					
680	Civil	Providing &fixing heavy duty UPVC SCH-40 pipes to correct line and level including providing all materials such as required fittings unions. sockets, bends elbows etc. complete , carrying out necessary excavation, backfilling & ramming after testing etc. complete. Make: astral/prince/supreme/Oriplast for 12 mm dia	M	150					
681	Civil	Providing &fixing heavy duty UPVC SCH-40 pipes to correct line and level including providing all materials such as required fittings unions. sockets, bends elbows etc. complete , carrying out necessary excavation, backfilling & ramming after testing etc. complete. Make: astral/prince/supreme/Oriplast for 19 mm dia	M	150					
682	Civil	Providing &fixing heavy duty UPVC SCH-40 pipes to correct line and level including providing all materials such as required fittings unions. sockets, bends elbows etc. complete , carrying out necessary excavation, backfilling & ramming after testing etc. complete. Make: astral/prince/supreme/Oriplast for 25 mm dia	M	150					
683	Civil	Providing &fixing heavy duty UPVC SCH-40 pipes to correct line and level including providing all materials such as required fittings unions. sockets, bends elbows etc. complete , carrying out necessary excavation, backfilling & ramming after testing etc. complete. Make: astral/prince/supreme/Oriplast for 32 mm dia	M	150					
684	Civil	Providing &fixing heavy duty UPVC SCH-40 pipes to correct line and level including providing all materials such as required fittings unions. sockets, bends elbows etc. complete , carrying out necessary excavation, backfilling & ramming after testing etc. complete. Make: astral/prince/supreme/Oriplast for 40 mm dia	M	150					
685	Civil	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Litre	150					
686	Civil	Providing & Laying salt glazed stoneware pipes including providing all the materials and cement jointing but excluding excavation and backfilling including 50mm thk.M100 bedding below joints for 150mm Dia.	M	200					

687	Civil	Removing, providing & replacing the broken manhole covers heavy duty CI, ISI marked with frame including finishing the top masonry with cement mortar as directed 225mm X 300mm Manhole covers should be of municipal corporation approved.	No	200					
688	Civil	Removing, providing & replacing the broken manhole covers heavy duty CI, ISI marked with frame including finishing the top masonry with cement mortar as directed 900mm X 600mm - Manhole covers should be of municipal corporation approved	NO	200					
689	Civil	Cleaning of septic tank , including chambers with gully sucker & providing plumbing services including all required tools, tackles, materials & fixtures including loading, unloading & transpotation up of sewerage to identified disposal site etc complete as directed,	No	140					
690	Civil	Cleaning of choked sewage chambers by providing plumbing services including all required tools, tackles, materials & fixtures including loading, unloading & transpotation up of sewerage to identified disposal site etc complete as directed,	Each	140					
691	Civil	Cleaning of O/H water storage tank up to 1000 ltrs. i/c cleaning with potassium permanganate / bleaing powder and finally with clear water complete.	Each	200					
692	Civil	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for therequired duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineerin- charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding. As per the safety requirement indicated in the safety manual of Owner. Note: - This item to be executed for work to be done by other agency as per the requirement of Owner complete as directed.	M2	5000					
693	Civil	Providing and fixing tarpaulin 200 GSM of high quality on roofing including all necessary material i.e nylone / ppe ropes of adequate size and tools required for fixing of tarpaulin on existing Corrugated roof sheet (AC/ CGI)	M2	50					

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694	Civil	Carefully opening the cracks in plaster, cleaning the cracks with electrical air blower/water & filling the cracks with polymer modified cementitious mortar in proportion 1:5:15 ( i.e. Polymer: cement: well graded quartz sand by wt.) including polymer bonding coat & seal coat, curing etc. complete. Note: Width of cracks upto 6 mm and depth upto 20mm.	M	300					
695	Civil	Providing all materials, tools, tackles & services for Rehabilitation of RCC Structures as following a. ) Repair damaged concrete members including stripping dilapidated and loose concrete, scrapping reinforcement with wire brush and cleaning the same with speciality chemicals( Rusticide SS ) in one or more coats as per manufacturer's specifications. b.) Providing and applying speciality chemicals ( Polyalk Fixoprime ) in recommended proportions to steel bars & exposed concrete in one or more coats as per manufacturer's specifications. c.) Providing and applying speciality chemicals ( Polyalk EP ) in recommended proportions with 1:4 mortar with quartz sand in one or more coats for average thickness of 25 mm as per manufacturer's specifications etc complete as directed.	M2	500					

Yours faithfully,

-sd-

**HOD-Contracts**  
**TPNODL, Balasore**

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