

7.00	Erection of complete stay set with GI stay wire (7x4.00 mm dia), binding of stay wire, by providing Guy stay insulator (2 Nos.) and 0.3 cmt concreting 1 part cement, 3 part sand, 6 part 40 mm size stone aggregate chips (1:3:6) as per technical specifications, approved drawings and scope of works.	Set					
8.00	Erection, testing and commissioning of 33 kV polymer/porcelain insulator including their hardware fittings as per technical specification, approved drawings and scope of work.						
8.01	33 kV Pin insulator with GI pin	Set					
8.02	33 kV Disc insulator with strain hardware (set of 3, 11 KV disc insulators)	Set					
9.00	Erection of following types of poles for 33 KV overhead line by providing and installing danger plate, anti-climbing devices (barbed wire), earthing material (coil and 8SWG GI wire), red oxide & aluminium paint, pole numbering including cement concrete foundation using cement concreting foundation 1 part cement, 3 part sand, 6 part 40 mm size stone aggregate chips (1:3:6) etc as per scope of work, approved drawings and specifications:						
9.01	9.1 meter long /280 KG PCC Poles (PCC Pole as per state practice) - cement concreting (0.5 cmt)	No					
9.02	13 m long H-Beam 152x152 mm 37.1 kg/mtr - cement concreting (0.65 cmt)	No					
9.03	11 M long steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980) - cement concreting (0.65 cmt)	No					
9.04	13 M long steel Tubular poles with welded steel base plate of Designation 540 SP 72 (IS 2713, Pt I, II, III 1980) - cement concreting (0.65 cmt)	No					
10.00	Paying out, tensioning, binding of conductor and tightening of stays and stringing, testing and commissioning of ACSR Conductor of following sizes including jointing sleeves, helical formed fittings, jumpering and by providing & erecting PG Clamps etc as required as per approved drawings, scope of work and technical specifications						
10.01	6/4.09 + 1/4.09 mm (80 mm ² Al. Area) - Racoon	km					
10.02	6/4.72 mm+7/1.57 mm (100 mm ² Al. Area) - Dog	km					
10.03	30/3.00 + 7/3.00 mm (200 mm ² Al. Area) - Panther	km					
11.00	Earthing arrangement as per technical specifications, approved drawings and scope of work.						
11.01	Excavation, erection, testing & commissioning of 40 mm dia., 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover plates on GI frame, bentonite powder and other accessories complete	Set					
11.02	Excavation, erection, testing & commissioning of Spike Earthing 20mm solid Rod	Set					
11.03	Excavation, erection, testing & commissioning of Chemical rod earthing including electrode, chemical, with 2000mm long, 50 mm diameter GI pipe, GI Strip of 24x3mm minimum in hard rock locations only.	Set					
11.04	Erection of 8 SWG GI Coil 115 tonnes (1.85 kg)	No					
11.05	Erection of 8 SWG GI wire for earthing and guarding by providing GI nut, bolts & washers, turn buckle etc	MT					
11.06	Erection of 6 SWG GI wire for earthing and guarding by providing GI nut, bolts & washers, turn buckle etc	MT					
12.00	Erection, Testing and Commissioning of 33 kV AB Switch along with Support Insulators, Base Channel, down Pipe, Arcing Horns etc. complete as per technical specifications, scope of works and approved drawings	Set					
13.00	Erection of 33 KV LINE FOR UNDER GROUND RAILWAY CROSSING BY 2 Nos (INCLUDING ONE SPARE) 3Cx300 Sqmm (0.3 km) XLPE Armoured Cable , USING 150MM DIA GI PIPES, OUTDOOR HEAT SHRINKABLE CABLE JOINTING KITS, LUGS, 4 Nos GI 3-METERS LONG EARTHING, 6 SWG GI WIRES, CABLE MARKERS, BI METALLICK CLAMPS, JUMPERING WITH 33 KV ARIAL BUNCHED CABLES 200 sqmm dia (10 mtr), 33 KV STATION TYPE LIGHTENING ARRESTORS (6 NOS.), ETC AS REQUIRED AS PER TECHNICAL SPECIFICATIONS, DRAWINGS AND SCOPE OF THE WORK	Set					
	Total						

% discount, if any: _____

**DEVELOPMENT OF DISTRIBUTION INFRASTRUCTURE AT XXXX [Name of the District] District of XXXX [Name of State] UNDER REVAMPED REFORMS-BASED AND RESULTS-LINKED,
(Schedule of rates and prices)**

Bidder's Name & Address:

Installation / Erection Charges :

All prices in Indian Rupees

B	33/11 KV Grid Substation works						
Service No.	Description of Related Services (excludes inland transportation and other services required in India to convey the goods to their final destination)	Unit	Quantity	Unit price	GST payable on the price quoted if Contract is awarded (%)	GST payable on the price quoted if Contract is awarded (Amount)	Total Price per line item
1	2	3	4	5	6	7	8
B (I)	33/11 KV Grid Substation works - Common for fully outdoor / partly outdoor substation						
B (Ia)	Civil works: Design, supply of all material, T&P, labour etc for the following civil works complete						
1.00	Soil Investigation & Contour Survey of Substation area as per Technical Specification, approved Drawing & Scope of works	PER S/S					
2.00	Earth Filling & Site Levelling						
2.01	Earth work in PSS site provided by employer for pits free from logs, stumps, roots, rubbish or any other ingredients likely to deteriorate or affect the stability of the (0.5 meter filling considered size 40ftx40ft) site surface including breaking the clods maximum to 60 mm. cube, placing the earth in layers not exceeding 225 mm in loose thickness, rough dressing including cost of cutting and removing shrubs, roots falling in borrow area all complete as per approved design, as per Technical Specification, approved Drawing & Scope of works	CMT					
3.00	Gravel filling in switchyard area excluding road and footpath as per Technical Specification, approved Drawing & Scope of works.	Sq. m					
4.00	Design, engineering and construction of foundation for following power transformer considering original equipment manufacturer recommendations including excavation of pit, shuttering, reinforcement, cement concreting including providing and erecting guiding rail, wheel stopper etc as per Technical Specification, approved Drawing & Scope of works:						
4.01	1.60 MVA without tap changer	CMT					
4.02	3.15 MVA without tap changer	CMT					
4.03	5.00 MVA with off load tap changer	CMT					
4.04	8.00 MVA with off load tap changer	CMT					
4.05	10.0 MVA with off load tap changer	CMT					
5.00	Design, engineering and construction of foundation for following outdoor mounted Vacuum Circuit Breaker considering original equipment manufacturer recommendation including excavation of pit, shuttering and by providing reinforcement, cement concreting, painting etc as per Technical Specification, approved Drawing & Scope of works. Works also includes providing working platform for operation of breakers and painting.						
5.01	33 KV VCB	CMT					
5.02	11 KV VCB	CMT					

6.00	Providing and Construction of outdoor gantry structure foundation and erection of gantry structure (H-Beam/lattice structure) including top muffing and its painting by excavation of pit and by providing shuttering, cement concreting (0.65 cmt per structure) etc as per Technical Specification, approved Drawing & Scope of works	CMT					
7.00	Providing and Construction of Boundary Wall made of reinforced cement concrete foundation (Beam, column, footing), angle supports, brick works, plastering including Barbed Wire Fencing on MS angle and one MS Gate per Substation, including Supply, Fabrication, Fixing including red oxide and aluminium painting all complete as per Technical Specification, approved Drawing & Scope of works	R/Mtr					
8.00	Design, engineering and construction of Control Room Building of size 10mx12m complete with foundation, flooring, trenching, plastering, brick work, roof, painting, doors & windows, surface tile as per requirement, recessed water supply piping (GI medium class pipes and fittings), sanitary fittings, toilet, water supply arrangements, sign board including Labour, Cement, Reinforcement Steel, Framework, Excavation etc, all complete as per Technical Specification, approved Drawing & Scope of works	Sqm					
9.00	Design, engineering and construction of cement concrete Cable Trench of 0.5 Mtr wide, required depth, precast RCC Trench Cover, Water slop, cable supporting angles including Labour, Reinforcement Steel, MS Angles, Flats, Steel Frame Work, Excavation etc, all complete as per Technical Specification, approved Drawing & Scope of works.	R/Mtr					
10.00	Design, engineering and construction of Drainage System made of brick work in the Substation premises including Excavation etc, all complete as per design, Technical Specification, approved Drawing & Scope of works	R/Mtr					
11.00	Design, engineering and construction of approach road, footpath including bitumen carpeting and excavation, compaction etc. all complete as per Technical Specification, approved Drawing & Scope of works						
11.01	width of approach road 3.75 m	R/Mtr					
11.02	width of footpath 1.5 m	R/Mtr					
12.00	Drilling of tube well bore and installation of submersible pump, submersible motor, cabling and control panel of suitable capacity as per Technical Specification, approved Drawing & Scope of works.	SET					
13.00	Earth Filling & Site Levelling						
13.01	Earth work in Substation site with ordinary soil obtained from borrow pits free from logs, stumps, roots, rubbish or any other ingredients likely to deteriorate or affect the stability of the (0.5 meter filling considered size 40*40) site surface including breaking the clods maximum to 60 mm. cube, placing the earth in layers not exceeding 225 mm in loose thickness, rough dressing including cost of cutting and removing shrubs, roots falling in borrow area all complete as per approved design, as per detailed Technical Specification, approved Drawing & Scope of works.	CMT					
14.00	Gravel filling in switchyard area excluding road and footpath as per detailed Technical Specification, approved Drawing & Scope of works.	Sq. m					

15.00	Construction of Boundary Wall including Barbed Wire Fencing on MS angle over the Boundary Wall and Gate per Substation, including Supply, Fabrication, Fixing, Painting all complete as per detailed Technical Specification, approved Drawing & Scope of works.	Mtr					
16.00	Design, engineering and construction of Control Room Building including indoor trench comprising of battery room, panel room, administration room, toilet etc as required of overall size 10mX12m, single story including supply of construction materials, Labour, Cement, Reinforcement Steel, Frame Work, Excavation etc, all complete as per detailed Technical Specification, approved Drawing & Scope of works.	Sqm					
17.00	Design, engineering and construction of Cable Trench of 0.5 Mtr wide, required depth, precast RCC Trench Cover, Water stops, Brick Work wherever required including supply of T&P, Labour, Cement, Reinforcement Steel, Steel Angles, Flats, Form Work, Excavation etc, all complete as per detailed Technical Specification, approved Drawing & Scope of works.	Mtr					
18.00	Design, engineering and construction of Drainage System in the Substation premises including supply of civil construction materials, Labour, Cement, brick, Form Work, Excavation etc, all complete as per detailed Technical Specification, approved Drawing & Scope of works.	Mtr					
19.00	Design, engineering and construction of approach road, footpath including supply of civil construction materials, labour, brick, stone, earth, bitumen and excavation, compaction etc. all complete as per detailed Technical Specification, approved Drawing & Scope of works.						
19.01	width of approach road 3.75 m	Mtr					
19.02	width of footpath 1.5 m	Mtr					
B (Ib)	Substation Electrical works						
1.00	Erection, filtration, testing and commissioning of 33/11 kV, 3 ph, 50 Hz, ONAN, Cu Wound, Outdoor Conventional type Power Transformer along with transformer oil, Buchholtz relay, breather, OTI & WTI, Marshalling Box, Conservator tank, oil level indicator, valves by providing 2 sets of 50x8 mm GS Neutral Earthing strips with braided conductor on bushing end supported with insulators, OTI & WTI Indicators, Vent explosion plug, control wiring / cabling, cable supporting tray on the body, transformer wheels, bushing etc as per Technical Specification, approved Drawing & Scope of works						
1.01	1.60 MVA without tap changer	No					
1.02	3.15 MVA without tap changer	No					
1.03	5.00 MVA with off load tap changer	No					
1.04	8.00 MVA with off load tap changer	No					
1.05	10.0 MVA with off load tap changer	No					
2.00	Station Transformer Substation						
2.01	Erection, testing and commissioning of 100 KVA, 11/0.4 kV, 3 ph, 50 Hz, ONAN, aluminium would outdoor type Distribution Transformer (Station Transformer) as per Technical Specification, approved Drawing & Scope of works	Set					
2.02	Providing and Erection, testing & commissioning of ACSR Rabbit Conductor for jumpering including PG Clamps, bi-metallic connectors, hardware on station transformer substation etc as per Technical Specification, approved Drawing & Scope of works	Km					
2.03	Erection, testing and Commissioning of 12 KV, 200 A, 3-pole AB Switch for station Transformer Substation as per Technical Specification, approved Drawing & Scope of works.	Set					
2.04	Erection, testing and commissioning of 9 KV,10 KA Distribution Class Lightening Arrester for station transformer substation as per technical specification, approved drawings and scope of work.	No					
2.05	Erection, testing and commissioning of 11 kV, 3-ph, Drop Out fuse units (set of 3 units) along with Support Insulators, Base Channel, fuse barrel etc. complete as per technical specifications, scope of works and approved drawings	Set					

3.00	Fabrication and Erection of Gantry structures using H-Beam, lattice structure (galvanised including hardware), MS channel, MS angle and MS flat of various sizes including MS nuts & bolts, by providing red oxide painting and aluminium painting etc as required as per Technical Specification, approved Drawing & Scope of works	MT					
4.00	Erection, testing and commissioning of 36kV, 630A, 25kA for 3 sec, 3-ph double break center rotating type (DBCR), Gang Operated, isolator along with Support Insulators, Operating Mechanism, Base Channel down Pipe and all required accessories complete as per approved drawings, technical specifications and scope of the work,	Set					
5.00	Erection, testing and Commissioning of 30kV, 10kA, 1-ph Station Class Lightning Arresters, jumpering from bus bar, hardware etc as required, as per approved drawings, technical specifications and scope of the work,	No					
6.00	Erection, testing and Commissioning of 9kV, 10kA, 1-ph Station Class Lightning Arrester, jumpering from bus bar, hardware, etc as required as per approved drawings, technical specifications and scope of the work.	No					
7.00	Erection, testing and Commissioning of 36 kV, 1-Phase, 33kV/110 volt, Single core outdoor type Potential transformer along with junction box (1 no junction box for 3 no of 1-phase PTs) including control and power supply cabling and required accessories etc., complete as per as per approved drawings, technical specifications and scope of the work,	Set					
8.00	Erection, wiring, testing and commissioning of 12 kV, 1250 A, 25kA, 3-ph, Outdoor type Vacuum Circuit breaker along with 12 kV, 1-Phase, 300-150/5-5 A and 300-150/5-5, outdoor type Current Transformer along with junction box (1 no junction box for 3 no of 1-phase CTs), Jumpers, supporting structures, permanent maintenance platform, marshalling box, control cabling between VCB and indoor control panel and required accessories complete as per approved drawings, technical specifications and scope of the work,	Set					
9.00	Design, Engineering, providing foundation channel ISMC 75, erection, welding with MS angle of trench, wiring, control and power supply cabling in trench between field equipment and panels, testing and commissioning of 11kV indoor type control and relay panel consisting of A-meter, volt-meter, Relay & accessories complete as per specifications for transformer breaker as per approved drawings, technical specifications and scope of the work,						
9.01	Transformer Protection Breaker Panel	No					
9.02	Feeder Protection Breaker Panel	No					

10.00	Installation, initial charging, cabling, interconnection cabling, testing and commissioning of 24V, 80 AH Ni-Cd or Pb Acid battery (or as per state practice) on battery stand made of teak wood duly painted with anti rusting paint, battery insulators, inter-battery wiring using 30 sqmm copper single core multi strand cable, terminal connectors, & all other accessories and connectors as per as per approved drawings, technical specifications and scope of the work,	Set					
11.00	Design, engineering, construction of foundation, Installation, interconnection cabling, testing and commissioning of 24V, 40 Amp. Float-Cum-Boost Battery Charger (or as per state practice) with full wave rectification for 230 V, 1 phase, 50 Hz AC Input Supply as per approved drawings, technical specifications and scope of the work	No					
12.00	Erection, testing & commissioning of 415 V, ACDB along with three phase-neutral voltmeter, three phase ammeter and Selector switches, 200 Amps TPN switch fuse unit as incomer, 32 Amps TPN switches as outgoing feeders suited for number of control panels, nos of VCB kiosk panel, having 20% spare outgoing feeders, by providing MS angle 50x50x6 mm structure, cement concrete foundation etc as per technical specifications, approved drawings and scope of works.	No					
13.00	24 Volts (or voltage as per state practices) Direct Current Distribution Board (DCDB) Indoor floor mounted comprising of 2P/100A DC Switch Fuse Unit as incomer and 2P/40A switch fuse units for each individual outgoing circuit of indoor control panels, indoor/outdoor VCB panels, control room emergency DC lighting including 20% as spare, by providing MS angle 50x50x6 mm structure, cement concrete foundation etc as per technical specifications, approved drawings and scope of works.	Set					
14.00	Excavation, laying, welding, refilling, earthing & grounding conductor as per Approved Electrical Layout for each sub-station and erection of riser up to various equipment/gantry structures as per Technical Specification, approved Drawing & Scope of works						
14.01	75 x 8 mm MS flat for ground mat	MT					
14.02	50 x 6 mm Galvanized GS flat (risers)	MT					
14.03	25 x 3 mm Galvanized GI flat (risers)	MT					
14.04	25 mm dia GI Rod 3 m long for earth mat	MT					
15.00	Excavation, erection, testing and commissioning of 40 mm dia., 3000 mm long GI pipe earth electrode by providing test link, RCC pit, RCC cover, placed on GI frame, bentonite powder and other accessories complete as per approved drawings, technical specifications and scope of the work for power transformer neutral, station transformer neutral, lightning arresters direct earthing.	Set					

16.00	Erection, testing and commissioning of Bus Conductor (Panther Conductor) and droppers (Dog Conductor) including jumpers to various equipment using 11 KV and 33 KV insulators, GI Pin, GI Hardware fittings, PG Clamps, T-connectors etc as required as per approved drawings, specifications and scope of the work.	km					
17.00	Erection, testing and commissioning of External electrification works of substation including area lighting by 4 No, 12m high steel tubular lighting masts, 2x250 watts LED flood light fittings on each mast, Junction boxes of the fittings, area lighting power distribution board, 2 nos. 3 Phase 63 Amp power receptacles, tube well power supply, etc as required by laying power cables in underground/above ground/trenches, construction of foundations for receptacles, distribution boards etc as required as per approved drawings, specifications and scope of work.	Set					
18.00	Supply, Erection, testing and commissioning of Fire Fighting Equipment comprises of Dry Chemical Powder Type (6 Kg) for control room; CO2 Type of 4.5Kg Capacity for Control Room and CO2 Type Trolley Mounted of 22.5 Kg Capacity for Switch Yard and 3 Nos. fire buckets of 25 ltr capacity filled with sand and mounted on 50x50x6 MS stand duly painted as per Technical Specification, approved Drawing & Scope of works.	SET					
19.00	Erection, testing and commissioning of Internal electrification work in Substation Control room as per approved drawings, specifications and scope of work by installing, erection, testing and commissioning of fans, exhaust fans, fluorescent lighting, LED lamps, L&F, power points, wiring materials, Distribution Boards, Sub-distribution boards etc. as per Technical Specification, approved Drawing & Scope of works	Set					
20.00	Laying, testing and commissioning of Power Cables in cable trench/pipes/underground/overhead laying including their termination at indoor/outdoor terminals including supply of glands, lugs, cable ties, tagging etc as required as per Technical Specification, approved Drawing & Scope of works						
20.01	3.5 Core 150 Sq. mm armored, stranded aluminium conductor, PVC insulated and PVC sheathed cable	MTR					
20.02	3.5 Core 70 Sq. mm armored, stranded aluminium conductor, PVC insulated and PVC sheathed cable	MTR					
20.03	3.5 Core 35 Sq. mm armored, stranded aluminium conductor, PVC insulated and PVC sheathed cable	MTR					
20.04	2 Core 16 Sq. mm armored, stranded aluminium conductor, PVC insulated and PVC sheathed cable	MTR					
21.00	Laying, testing and commissioning of Control Cables in cable trench/pipes/underground/overhead laying including their termination at indoor/outdoor terminals including supply of glands, lugs, cable ties, tagging etc as required as per Technical Specification, approved Drawing & Scope of works						
21.01	2 Core 2.5 sqmm armored, stranded copper conductor, PVC insulated and PVC sheathed cable	MTR					
21.02	6 Core 2.5 sqmm armored, stranded copper conductor, PVC insulated and PVC sheathed cable	MTR					
21.03	10 Core 2.5 sqmm armored, stranded copper conductor, PVC insulated and PVC sheathed cable	MTR					

B (II)	11 KV CAPACITOR BANK INCLUDING MOUNTING STEEL GALVANISED STRUCTURE AND ACCESSORIES AS REQUIRED AS PER DETAILED TECHNICAL SPECIFICATIONS, DRAWING AND SCOPE OF WORKS IN FOLLOWING ARRANGEMENTS:						
1.00	ERECTION, TESTING & COMMISSIONING OF CAPACITOR BANK 600 KVAR - FIXED TYPE SUBSTATION MOUNTED WITH CAPACITOR SWITCH AND ASSOCIATED ACCESSORIES	Set					
2.00	ERECTION, TESTING & COMMISSIONING OF CAPACITOR BANK 1200 KVAR - AUTO TYPE SUBSTATION MOUNTED WITH ALL ASSOCIATED EQUIPMENT LIKE 11 KV VCB, C&R PANEL, CTs, 11 KV 200A ISOLATORS WITH EARTH SWITCH, RVT, 11 KV STATION CLASS LA, RED OXIDE / ALUMINIUM PAINTING, 2.5 SQ.MM. PVC ARMoured STRANDED COPPER CONTROL CABLES, PROTECTION CIRCUIT AND EQUIPMENT, EARTHING, 16 MM DIA MS NUTS & BOLTS ETC AS REQUIRED AS PER APPROVED TECHNICAL SPECIFICATIONS, DRAWING AND SCOPE OF WORKS	Set					
3.00	ERECTION, TESTING & COMMISSIONING OF CAPACITOR BANK 1500 KVAR - AUTO TYPE SUBSTATION MOUNTED WITH ALL ASSOCIATED EQUIPMENT LIKE 11 KV VCB, C&R PANEL, CTs, 11 KV 200A ISOLATORS WITH EARTH SWITCH, RVT, 11 KV STATION CLASS LA, RED OXIDE / ALUMINIUM PAINTING, 2.5 SQ.MM. PVC ARMoured STRANDED COPPER CONTROL CABLES, PROTECTION CIRCUIT AND EQUIPMENT, EARTHING, 16 MM DIA MS NUTS & BOLTS ETC AS REQUIRED AS PER APPROVED TECHNICAL SPECIFICATIONS, DRAWING AND SCOPE OF WORKS	Set					
B (IV)	33/11 KV Grid Substation works: Fully outdoor type						
1.00	Erection, testing and commissioning of 36kV, 1250A, 25kA for 3 seconds, 3-ph, Outdoor type Vacuum Circuit breaker along with 36kV, 1-Phase, 200-100/1-1 Amps outdoor type Current Transformer along with junction box (1 no junction box for 3 no of 1-phase CTs)], Jumpers, earthing, supporting structures, maintenance platform, marshalling box, control cabling between VCB and indoor control panel and required accessories complete as per Technical Specification, approved Drawing & Scope of works	SET					
2.00	Design, Engineering providing and installation of ISMC 75 channel on top of indoor trench, erection of panels on ISMC 75 channels, welding, testing and commissioning of 33kV indoor Control & Relay panel along with E/F & O/C relays, control and power supply cabling in trench between field equipment and panels, Mimic Diagram, Voltmeter, Ammeter, Annunciation Windows with annunciation relays and other components etc as per approved drawings, technical specifications and scope of the work for controlling:						
2.01	33 kV feeder VCB with Static Tri-Vector Energy Meter etc	No					
2.02	33 kV Power transformer VCB with Static Tri-Vector Energy Meter,	No					
B (V)	33/11 KV Grid Substation works: Partly outdoor type						
1.00	Erection of 12 kV, 1250 A, 25kA for 3 seconds, 3-ph, indoor type Vacuum Circuit breaker and indoor control panel by providing ISMC 100 channel, levelling, alignment and welding on existing cable trench in control room. Erection, testing & commissioning of indoor VCB panel including 3 Nos indoor type Current Transformer, Potential Transformer, indoor mounting type control panel, by providing control cabling between VCB and indoor control panel and required accessories, bi-metallic clamps, A-meter, volt-meter, Relay & accessories complete for following arrangements and protection as per approved drawings, technical specifications and scope of the work. :						
1.01	Transformer Protection	Set					
1.02	Feeder Protection	Set					
1.03	Bus coupler	Set					

2.00	Laying, erection, termination using indoor & outdoor termination kit, 11KV XLPE, Power armored cables of following sizes as per technical specifications, approved drawings and scope of works. :						
2.01	3Cx300 sqmm	km					
2.02	3Cx240 sqmm	km					
2.03	3Cx35 sqmm	km					
	Total						
	% discount, if any:						

DEVELOPMENT OF DISTRIBUTION INFRASTRUCTURE AT XXXX [Name of the District] District of XXXX [Name of State] UNDER REVAMPED REFORMS-BASED AND RESULTS-LINKED,

(Schedule of rates and prices)

Bidder's Name & Address:

Installation / Erection Charges :

All prices in Indian Rupees

C	Erection, testing and Commissioning of New 11 KV lines:						
Service No.	Description of Related Services (excludes inland transportation and other services required in India to convey the goods to their final destination)	Unit	Quantity	Unit price	GST payable on the price quoted if Contract is awarded (%)	GST payable on the price quoted if Contract is awarded (Amount)	Total Price per line item
1	2	3	4	5	6	7	8
1.00	Survey, route alignment & pole spotting, preparation of survey report and uploading in the web portal after approval of Project Manager	Km					
2.00	Excavation of pole pit (of depth 1/6th of pole length) in normal soil as per scope of work, approved drawings and specifications:						
2.01	8 m/140 kgs PCC Poles - (PCC Pole as per state practice)	No					
2.02	13 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
2.03	11 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
2.04	11 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980)	No					
2.05	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)	No					
3.00	Excavation of pole pit (of depth 1/6th of pole length) in soft rock where blasting is not required as per scope of work, approved drawings and specifications:						
3.01	8 m/140 kgs PCC Poles - (PCC Pole as per state practice)	No					
3.02	13 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
3.03	11 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
3.04	11 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980)	No					
3.05	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)	No					
4.00	Excavation of pole pit (of depth 1/6th of pole length) in hard rock where blasting is required as per scope of work, approved drawings and specifications:						

4.01	8 m/140 kgs PCC Poles - (PCC Pole as per state practice)	No					
4.02	13 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
4.03	11 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
4.04	11 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980)	No					
4.05	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)						
5.00	Erection of following types of poles for 11 KV overhead line by providing and installing danger plate, anti-climbing devices (barbed wire), earthing material (coil and 8SWG GI wire), red oxide & aluminium paint, pole numbering including cement concrete foundation or refilling by bolders using cement concreting foundation 1 part cement, 3 part sand, 6 part 40 mm size stone aggregate chips (1:3:6) or/and 200 mm average size bolders mixed with excavated earth etc as per scope of work, approved drawings and specifications:						
5.01	8 m/140 Kgs PCC Poles with RCC Base plate/pad including refilling by brick ballast/ stone bolder as required - (state practices of PCC pole and base plate/stone to be used)	No					
5.02	8 m/140 Kgs PCC Poles with RCC Base plate/pad - Cement concreting 0.5 cmt	No					
5.03	13 m long H-Beam 152x152 mm, 37.1 kg/mtr - Cement concreting 0.65 cmt	No					
5.04	11 m long H-Beam 152x152 mm, 37.1 kg/mtr - Cement concreting 0.65 cmt	No					
5.05	11 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980) - Cement concreting 0.65 cmt	No					
5.06	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980) - Cement concreting 0.5 cmt	No					
6.00	Erection, testing & commissioning of pre-fabricated steel items like V cross arm, top clamp, DC cross arm, bracket, clamps, cross bracings, bracings, strain plate, guarding channels, back clamp, etc made of MS Channels, MS angle, MS flats of given sizes for over head structures and MS nuts, bolts & washers including painting by red oxide & aluminium paint as per technical specification, approved drawings and scope of work.	MT					

7.00	Earthing arrangement as per technical specifications, approved drawings and scope of work.						
7.01	Excavation, erection, testing & commissioning of 40 mm dia., 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover plates on GI frame, Charcoal, Salt and other accessories complete	Set					
7.02	Excavation, erection, testing & commissioning of Spike Earthing 20mm solid Rod	Set					
7.03	Excavation, erection, testing & commissioning of Chemical rod earthing including electrode, chemical, with 2000mm long, 50 mm diameter GI pipe, GI Strip of 24x3mm minimum in hard rock locations only.	Set					
7.04	Erection of 8 SWG GI Coil 115 tonnes (1.85 kg)	No					
7.05	Erection of 8 SWG GI wire for earthing and guarding by providing GI nut, bolts & washers, turn buckle etc	MT					
7.06	Erection of 6 SWG GI wire for earthing and guarding by providing GI nut, bolts & washers, turn buckle etc	MT					
8.00	Excavation of stay pit in following type of soils, as per scope of work, approved drawings and specifications:						
8.01	Normal soil	No					
8.02	Soft rock soil where blasting is not required	No					
8.03	Hard rock soil where blasting is required	No					
9.00	Erection of complete stay set with GI stay wire (7x3.15 mm dia), binding of stay wire, by providing Guy stay insulator (2 Nos.) and 0.2 cmt concreting 1 part cement, 3 part sand, 6 part 40 mm size stone aggregate chips (1:3:6) as per technical specifications, approved drawings and scope of works.	Set					
10.00	Erection, testing and commissioning of 11 kV insulator including their hardware fittings as per technical specification, approved drawings and scope of work.						
10.01	11 kV Pin insulator with GI pin	Set					
10.02	11 kV Disc insulator with strain hardware	Set					
11.00	Paying out, tensioning, binding of conductor and tightening of stays and stringing, testing and commissioning of ACSR Conductor of following sizes including jointing sleeves, helical formed fittings, jumpering and by providing & erecting PG Clamps etc as required as per approved drawings, scope of work and technical specifications						
11.01	6/2.59 + 1/2.59 mm (30 mm ² Al. Area) - Weasel	km					
11.02	6/3.35 + 1/3.35 mm (50 mm ² Al. Area) - Rabbit	km					
11.03	6/4.09 + 1/4.09 mm (80 mm ² Al. Area) - Raccoon	km					
11.04	6/4.72 mm+7/1.57 mm (100 mm ² Al. Area) - Dog						
12.00	Erection, Testing and Commissioning of 11 kV AB Switch along with Support Insulators, Base Channel, down Pipe, Arcing Horns etc. complete as per technical specifications, scope of works and approved drawings	Set					
13.00	ERECTION, TESTING & COMMISSIONING OF 11 KV LINE FOR UNDER GROUND RAILWAY CROSSING BY 2 Nos (INCLUDING ONE SPARE) 3Cx185 Sqmm XLPE Armoured Cable (0.3 km each) , USING 150MM DIA GI PIPES, OUTDOOR HEAT SHRINKABLE CABLE JOINTING KITS, LUGS, 4 Nos GI 3-METERS LONG EARTHING PIPE, 6 SWG GI WIRES, CABLE MARKERS, BI METALLICK CLAMPS, JUMPERING WITH 11 KV ARIAL BUNCHED CABLES (200mm dia, 10 mtrs), 11 KV STATION TYPE LIGHTENING ARRESTORS (6 NOS.), ETC AS REQUIRED AS PER TECHNICAL SPECIFICATIONS, APPROVED DRAWINGS AND SCOPE OF THE WORK.	Set					

14.00	ERECTION, TESTING & COMMISSIONING of 11 KV LINE FOR UNDER GROUND RAILWAY CROSSING BY 2 Nos (INCLUDING ONE SPARE) 3Cx300 Sqmm XLPE Armoured Cable (0.3 km each) , USING 150MM DIA GI PIPES, OUTDOOR HEAT SHRINKABLE CABLE JOINTING KITS, LUGS, 4 Nos GI 3-METERS LONG EARTHING PIPE, 6 SWG GI WIRES, CABLE MARKERS, BI METALLICK CLAMPS, JUMPERING WITH 11 KV ARIAL BUNCHED CABLES (200mm dia, 10 mtrs), 11 KV STATION TYPE LIGHTENING ARRESTORS (6 NOS.), ETC AS REQUIRED AS PER TECHNICAL SPECIFICATIONS, APPROVED DRAWINGS AND SCOPE OF THE WORK.	Set					
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Total

% discount, if any: _____

4.00	Erection of following types of poles for 11/0.4 KV Distribution transformer substation by providing and installing danger plate, anti-climbing devices (barbed wire), earthing material (coil and 8SWG GI wire), red oxide & aluminium paint, pole numbering including cement concrete foundation 1 part cement, 3 part sand, 6 part 40 mm size stone aggregate chips (1:3:6) etc as per scope of work, approved drawings and specifications:						
4.01	8 m/140 Kgs PCC Poles with RCC Base plate/pad - Cement concreting 0.5 cmt	No					
4.02	13 m long H-Beam 152x152 mm, 37.1 kg/mtr - Cement concreting 0.65 cmt	No					
4.03	11 m long H-Beam 152x152 mm, 37.1 kg/mtr - Cement concreting 0.65 cmt	No					
4.04	11 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980) - Cement concreting 0.65 cmt	No					
4.05	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980) - Cement concreting 0.5 cmt	No					
5.00	Excavation of stay pit in following type of soils, as per scope of work, approved drawings and specifications:						
5.01	Normal soil	No					
5.02	Soft rock soil where blasting is not required	No					
5.03	Hard rock soil where blasting is required	No					
6.00	Erection of complete stay set with GI stay wire (7x3.15 mm dia), binding of stay wire, by providing Guy stay insulator (2 Nos.) and 0.2 cmt concreting 1 part cement, 3 part sand, 6 part 40 mm size stone aggregate chips (1:3:6) as per technical specifications, approved drawings and scope of works.	Set					
7.00	Erection, testing, commissioning of Pre-fabricated steel items like DC cross arm (100x50x6 mm), back clamps (65x8 mm), pole clamp (65x8 mm), DO mounting channel (100x50x6 mm), transformer mounting channel (100x50x6 mm), transformer clamping set (50x50x6 mm), transformer belting set (50x50x6 mm) and MS nuts, bolts & washers including painting by red oxide & aluminium as per technical specification, approved drawings and scope of work.	MT					

8.00	Erection, testing and commissioning of 11 kV insulator including their hardware fittings as per technical specification, approved drawings and scope of work.						
8.01	11 kV Pin insulator with GI pin	Set					
8.02	11 kV Disc insulator with strain hardware	Set					
9.00	Erection, Testing and Commissioning of Distribution Transformer with all accessories as per scope of work, approved drawings and specifications:						
9.01	11/0.230 kV Distribution Transformer Substation 10 KVA 1 Phase Aluminium wound DTR	No					
9.02	11/0.230 kV Distribution Transformer Substation 16 KVA 1 Phase Aluminium wound DTR	No					
9.03	11/0.4 KV Distribution Transformer 16 KVA 3 phase Aluminium wound DTR	No					
9.04	11/0.4 KV Distribution Transformer 25 KVA 3 phase Aluminium wound DTR	No					
9.05	11/0.4 KV Distribution Transformer 63 KVA 3 phase Aluminium wound DTR	No					
9.06	11/0.4 KV Distribution Transformer 100 KVA 3 phase Aluminium wound DTR	No					
9.07	11/0.4 KV Distribution Transformer 200 KVA 3 phase Aluminium wound DTR	No					
9.08	11/0.4 KV Distribution Transformer 315 KVA 3 phase Copper wound DTR	No					
10.00	Erection, testing and Commissioning of Outdoor mounting type Distribution box made of MS sheet of thickness not less than 1.8 mm, dust and moisture vermin, weather proof with degree of protection IP 33 as per IS 13947 with suitable bus bars, earthing bus, earthing terminals, box illumination, front door operated with proper locking arrangement, non magnetic 4 mm thick gland plate, double compression brass cable glands, lugs, mounting channel frame, internal wiring with FRLS cables, danger plate, numbering, back clamps, hardware as per scope of the work, technical specifications and approved drawings suitable for following transformer:						

10.01	1 Ph 10 KVA transformer 45 A SPN MCCB (incomer) and 2 Nos. 32 A SP MCCB (outgoing)						
10.02	1 Ph 16 KVA transformer 80 A SPN MCCB (incomer) and 2 Nos. 50 A SP MCCB (outgoing)	No					
10.03	3 Ph 16 KVA transformer 25 A TPN MCCB (incomer) and 6 Nos. 16 A SP MCCB (outgoing)	No					
10.04	3 Ph 25 KVA transformer 40 A TPN MCCB (incomer) and 6 Nos. 25 A SP MCCB (outgoing)	No					
10.05	3 Ph 63 KVA Transformer having 200 A TPN isolator, 100 A HRC fuse (incomer) and 6 Nos. 60 A SP MCCB (outgoing)	No					
10.06	3 Ph 100 KVA Transformer having 200 A TPN isolator, 160A HRC fuse (incomer) and 6 Nos. 90 A SP MCCB (outgoing)	No					
10.07	3 Ph 200 KVA Transformer having 600 A TPN isolator, 315 A HRC fuse (incomer) and 9 Nos. 120 A SP MCCB (outgoing)	No					
10.08	3 Ph 315 KVA Transformer having 600 A TPN isolator, 500 A HRC fuse (incomer) and 12 Nos. 120 A SP MCCB (outgoing)	No					
11.00	Erection, testing and Commissioning of 3 Nos pipe earthing using 40mm dia GI pipe 3000 mm long, as per IS 1161, making earth grid using 50x6mm GI Flat and riser and connecting risers to various equipment as per scope of work, approved drawings and technical specifications,	Set					
12.00	Erection, testing and commissioning of 8 SWG GI wires as per Scope of work, technical specification and approved drawings	MT					
13.00	Erection, testing and Commissioning of 1.1 KV XLPE Aluminium Conductor, Stranded, unarmoured cable for connection of transformer LV bushing to Distribution Box and Distribution box to overhead line as per Scope of work, technical specification and approved drawings:						
13.01	1Cx16 sqmm aluminium conductor cable	km					
13.02	1CX35 sqmm aluminium conductor cable	km					
13.03	1CX50 sqmm aluminium conductor cable	km					
13.04	1Cx70 sqmm aluminium conductor cable	km					
13.05	1Cx150 sqmm aluminium conductor cable	km					
13.06	1Cx300 sqmm aluminium conductor cable	km					
14.00	Erection, testing and commissioning of ACSR Rabbit Conductor for jumpering including PG Clamps, bi-metallic connectors, hardware etc as per Technical Specification, approved Drawing & Scope of works	Km					
15.00	Erection, testing and Commissioning of 12 KV, 200 A, 3-pole AB Switch for Distribution Transformer Substation as per Technical Specification, approved Drawing & Scope of works	Sets					
16.00	Erection, testing and commissioning of 9 KV, 10 KA Distribution Class Lightning Arrester for DT as per technical specification, approved drawings and scope of work.	Set					
17.00	Erection, testing and commissioning of 11 kV, 3-ph, Drop Out fuse units (set of 3 units) along with Support Insulators, Base Channel, fuse barrel etc. complete as per technical specifications, scope of works and approved drawings	Sets					
	Total						

% discount, if any: _____

**DEVELOPMENT OF DISTRIBUTION INFRASTRUCTURE AT XXXX [Name of the District] District of XXXX [Name of State] UNDER
REVAMPED REFORMS-BASED AND RESULTS-LINKED,
(Schedule of rates and prices)**

Bidder's Name & Address:

Installation / Erection Charges :

All prices in Indian Rupees

E	LT Line	Unit	Quantity	Unit price	GST payable on the price quoted if Contract is awarded (%)	GST payable on the price quoted if Contract is awarded (Amount)	Total Price per line item
1	2	3	4	5	6	7	8
1.00	Survey, route alignment & pole spotting, preparation of survey report and uploading in the web portal after approval of Project Manager	Km					
2.00	Excavation of pole pit (of depth 1/6th of pole length) in normal soil as per scope of work, approved drawings and specifications:						
2.01	8 m/140 kgs PCC Poles - (PCC Pole as per state practice)	No					
2.02	11 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
2.03	11 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980)	No					
2.04	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)	No					
3.00	Excavation of pole pit (of depth 1/6th of pole length) in soft rock where blasting is not required as per scope of work, approved drawings and specifications:						
3.01	8 m/140 kgs PCC Poles - (PCC Pole as per state practice)	No					
3.02	11 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
3.03	11 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980)	No					
3.04	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)	No					
4.00	Excavation of pole pit (of depth 1/6th of pole length) in hard rock where blasting is required as per scope of work, approved drawings and specifications:						
4.01	8 m/140 kgs PCC Poles - (PCC Pole as per state practice)	No					
4.02	11 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
4.03	11 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980)	No					
4.04	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)	No					

5.00	Erection of following types of poles for LT overhead line by providing and installing danger plate, anti-climbing devices (barbed wire), earthing material (coil and 8SWG GI wire), red oxide & aluminium paint, pole numbering including cement concrete foundation or refilling by bolders using cement concreting foundation 1 part cement, 3 part sand, 6 part 40 mm size stone aggregate chips (1:3:6) or/and 200 mm average size bolders mixed with excavated earth etc as per scope of work, approved drawings and specifications:					
5.01	8 m/140 kgs PCC Poles - (PCC Pole as per state practice) - Cement concreting 0.5 cmt	No				
5.02	8 m/140 kgs PCC Poles - (PCC Pole as per state practice) - refilling with bolder & earth	No				
5.03	11 m long H-Beam 152x152 mm, 37.1 kg/mtr - Cement concreting 0.65 cmt	No				
5.04	11 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980) - Cement concreting 0.65 cmt	No				
5.05	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980) - Cement concreting 0.5 cmt	No				
6.00	Excavation of stay pit in following type of soils, as per scope of work, approved drawings and specifications:					
6.01	Normal soil	No				
6.02	Soft rock soil where blasting is not required	No				
6.03	Hard rock soil where blasting is required	No				
7.00	Erection of galvanised Stay Set with 50x8mm stay clamp, stay guy insulator, nut bolts, 2 Nos turn buckle's, 1.8 m long, 16 mm diameter solid GS Stay rod & 7/3.15 mm Dia GI stranded wire etc as required by providing 0.2 cum cement concrete as per approved drawings, technical specification and scope of work.	No				
8.00	Earthing arrangement as per technical specificatons, approved drawings and scope of work.					
8.01	Excavation, erection, testing & commissioning of 40 mm dia., 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover plates on GI frame, bentonite powder and other accessories complete	Set				
8.02	Excavation, erection, testing & commissioning of Spike Earthing 20mm solid Rod	Set				
8.03	Excavation, erection, testing & commissioning of Chemical rod earthing including electrode, chemical, with 2000mm long, 50 mm diameter GI pipe, GI Strip of 24x3mm minimum in hard rock locations only.	Set				
8.04	Erection testing and commissioning of 8 SWG GI wire for earthing including GI nuts, bolts & washers	MT				

9.00	Erection, testing and Commissioning of LT line with following arrangements using areal bunched XLPE cable including tension clamps for dead end, suspension clamps, clamps for neutral, piercing connectors type-I & type-II, 16 mm dia MS nuts & bolts, pole clamps, etc as required as per technical specification, approved drawings and scope of work:					
9.01	AERIAL BUNCHED XLPE CABLE 3 X 50 SQ.MM+1x35 SQ. MM.+1x16 SQ. MM.	km				
9.02	AERIAL BUNCHED XLPE CABLE 3 X 35 SQ.MM.+1x35 SQ. MM.+1x16 SQ. MM.	km				
9.03	AERIAL BUNCHED XLPE CABLE 3 X 25 SQ.MM.+1x35 SQ. MM.+ 1x16 SQ. MM.	km				
9.04	AERIAL BUNCHED XLPE CABLE 3 X 16 SQ.MM. + 1x16 SQ. MM. +1x25 SQ. MM.	km				
9.05	AERIAL BUNCHED XLPE CABLE 2 X 35 SQ.MM. + 1x16 SQ. MM.	km				
9.06	AERIAL BUNCHED XLPE CABLE 2 X 25 SQ.MM. + 1x16 SQ. MM.	km				
10.00	Single phase service connection by providing Thermo-plastic insulated weatherproof cable of size 2 Core 2.5 sqm aluminium conductor (up to 35m length of house hold from LT line), 10 SWG GI tension wire, 20 mm GI Pipe medium class to accept service cable at consumer residence, single phase whole current 30A temper proof electronic energy meter, 2 Nos. piano type ISI marked 250V/5A switch. 1 ISI mark 250V/5A socket, 250V/5A ISI marked holder, 144-288V, upto 9 watts, 710 lumen LED lamp 250V,5A capacity ISI mark lamp holder, Internal wiring using 1.5 sqm copper multistrands PVC insulated ISI marked cable, 250V/16A switch cartridge fuse assembly of ISI marked and a 10mm dia earth terminal point, internal wiring in ISI marked 12mm dia PVC rigid pipes including its clamps, fittings and fixtures as required as per REC drawing and Specifications. Earth point would be connected with existing earthing potential maintained by DISCOM	No				
11.00	Providing and installation of DDUGJY sign Board as per scope of work, approved drawings and technical specification,					
11.01	Village Electrification Board and new 33/11 kV substation board of size 4ftx3ft by providing board, mounting angles,	No				
11.02	Distribution Transformer Electrification Board with clamp - mounting on substation structure	No				
	Total					
	% discount, if any: _____					

**DEVELOPMENT OF DISTRIBUTION INFRASTRUCTURE AT XXXX [Name of the District] District of XXXX [Name of State] UNDER
REVAMPED REFORMS-BASED AND RESULTS-LINKED,
(Schedule of rates and prices)**

Bidder's Name & Address:

Installation / Erection Charges :

All prices in Indian Rupees

F Augmentation, Renovation and Modernisation of existing lines and substations							
Service No.	Description of Related Services (excludes inland transportation and other services required in India to convey the goods to their final destination)	Unit	Quantity	Unit price	GST payable on the price quoted if Contract is awarded (%)	GST payable on the price quoted if Contract is awarded (Amount)	Total Price per line item
1	2	3	4	5	6	7	8
F(I)	Augmentation & Renovation of 11/0.4 kV Distribution Transformer Substation						
1.00	Erection, testing & commissioning of augmented/new Distribution Transformer by reconnecting 11 kV, LT, earthing circuit providing suitable lugs, bi-metallic clamps including supporting structure etc as required as per technical specifications, approved drawings and scope of the work. Replaced material and DTR to be deposited in Employer's store:						
1.01	New 63 KVA (11/0.4 kV) Aluminium wound DTR (Replacing 25KVA old DTR),	No					
1.02	New 100 KVA (11/0.4 kV) Aluminium wound DTR (Replacing 63 KVA old DTR),	No					
1.03	New 200 KVA (11/0.4 kV) Aluminium wound DTR (Replacing 100 KVA old DTR),	No					
1.04	New 315 KVA (11/0.4 kV) Copper wound DTR (Replacing 200 KVA old DTR),	No					
2.00	Erection, testing & commissioning of new 1.1 KV XLPE Aluminium Conductor, Stranded, unarmoured cable for connection of transformer LV bushing to Distribution Box and Distribution box to overhead line by replacing old cables and by bunching & providing cable ties and cable lugs, double compression brass glands, etc as per Scope of work, technical specification and approved drawings. Replaced cables to be deposited in Employer's store.						
2.01	1Cx16 sqmm aluminium conductor cable	km					
2.02	1CX35 sqmm aluminium conductor cable	km					
2.03	1CX50 sqmm aluminium conductor cable	km					
2.04	1Cx70 sqmm aluminium conductor cable	km					
2.05	1Cx150 sqmm aluminium conductor cable	km					
2.06	1Cx300 sqmm aluminium conductor cable	km					
3.00	Erection, testing & commissioning of new outdoor mounting type Distribution box made of MS sheet of thickness not less than 1.8 mm, dust and moisture vermin, weather proof with degree of protection IP 33 as per IS 13947 with suitable bus bars, earthing bus, earthing terminals, box illumination, front door operated with proper locking arrangement, non magnetic 4 mm thick gland plate, double compression brass cable glands, lugs, mounting channel frame, internal wiring with FRLS cables, danger plate, numbering, back clamps, hardware as per scope of the work, technical specifications and approved drawings suitable for following transformer:						

3.01	1 Ph 10 KVA transformer 45 A SPN MCCB (incomer) and 2 Nos. 32 A SP MCCB (outgoing)	No					
3.02	1 Ph 16 KVA transformer 80 A SPN MCCB (incomer) and 2 Nos. 50 A SP MCCB (outgoing)	No					
3.03	3 Ph 16 KVA transformer 25 A TPN MCCB (incomer) and 6 Nos. 16 A SP MCCB (outgoing)	No					
3.04	3 Ph 25 KVA transformer 40 A TPN MCCB (incomer) and 6 Nos. 25 A SP MCCB (outgoing)	No					
3.05	3 Ph 63 KVA Transformer having 200 A TPN isolator, 100 A HRC fuse (incomer) and 6 Nos. 60 A SP MCCB (outgoing)	No					
3.06	3 Ph 100 KVA Transformer having 200 A TPN isolator, 160A HRC fuse (incomer) and 6 Nos. 90 A SP MCCB (outgoing)	No					
3.07	3 Ph 200 KVA Transformer having 600 A TPN isolator, 315 A HRC fuse (incomer) and 9 Nos. 120 A SP MCCB (outgoing)	No					
3.08	3 Ph 315 KVA Transformer having 600 A TPN isolator, 500 A HRC fuse (incomer) and 12 Nos. 120 A SP MCCB (outgoing)	No					

4.00	Renovation & commissioning of DTR substation Earthing as per technical specification, approved drawings and scope of work:						
4.01	Revamping of Distribution Transformer substation earthing by using 40 mm dia 3 meter long GI pipe earthing, using 50x6 mm GS flat for earth mat and riser and 25x3mm GS flat for connecting equipment, using 200 kg bentonite powder of substation in normal soil	No					
4.02	Revamping of Distribution Transformer substation earthing by using 3 Nos. chemical rod earthing including electrode & chemical, 50x6 mm GS flat for earth mat and riser and 25x3mm GS flat for connecting equipment in hard rock soil	No					
5.00	Erection, testing & commissioning of new Pre-fabricated steel items like DC cross arm (100x50x6 mm), back clamps (65x8 mm), pole clamp (65x8 mm), DO mounting channel (100x50x6 mm), transformer mounting channel (100x50x6 mm), transformer clamping set (50x50x6 mm), transformer belting set (50x50x6 mm) and by providing red oxide & aluminium painting as per technical specification, approved drawings and scope of work.	MT					
6.00	Erection, testing & commissioning of new MS Nuts, Bolts with Washers as per technical specification, approved drawings and scope of work.	MT					
7.00	Erection, testing & commissioning of new Polymer/ Porcelain Insulators with hardware fittings, hardware etc as required as per technical specification, approved drawings and scope of work.						
7.01	11 KV, Disc Insulator with suitable hardware fittings	Set					
7.02	11 KV, Post Insulators / Pin Insulators with hardware fittings	Set					
8.00	Erection, testing & commissioning of new 11 KV Distribution Class Lightning Arrester for DT as per technical specification, approved drawings and scope of work.	No					
9.00	Erection, testing & commissioning of new 11 kV, 3-ph, 200 A, 3 Pin type, Vertical Mounting type, Gang Operated, AB Switch along with Support Insulators, Base Channel, down Pipe, Arcing Horns etc. complete as per technical specifications, scope of works and approved drawings	Sets					
10.00	Renovation of existing Distribution Transformer by providing and topping up of transformer oil including replacement of suitable silica gel breather of existing type & size as per technical specifications, approved drawings and scope of works. .	ltr					
11.00	Erection, testing & commissioning of 11kV, 200 A, 3-ph Drop Out fuse assembly including insulators and mounting arrangements, jumpering from bus bar, hardware, etc as required as per technical specifications, approved drawings and scope of the works.	Set					
F(II)	Augmentation of 33 KV lines						
1.00	Excavation of additional pole pit (of depth 1/6th of pole length) in normal soil as per scope of work, approved drawings and specifications:						
1.01	9.1 meter long /280 KG PCC Poles (PCC Pole as per state practice)	No					
1.02	13 m long H-Beam 152x152 mm 37.1 kg/mtr	No					
1.03	11 M long steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980)	No					
1.04	13 M long steel Tubular poles with welded steel base plate of Designation 540 SP 72 (IS 2713, Pt I, II, III 1980)	No					

2.00	Excavation of additional pole pit (of depth 1/6th of pole length) in soft rock where blasting is not required as per scope of work, approved drawings and specifications:						
2.01	9.1 meter long /280 KG PCC Poles (PCC Pole as per state practice)	No					
2.02	13 m long H-Beam 152x152 mm 37.1 kg/mtr	No					
2.03	11 M long steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980)	No					
2.04	13 M long steel Tubular poles with welded steel base plate of Designation 540 SP 72 (IS 2713, Pt I, II, III 1980)	No					
3.00	Excavation of additional pole pit (of depth 1/6th of pole length) in hard rock where blasting is required as per scope of work, approved drawings and specifications:						
3.01	9.1 meter long /280 KG PCC Poles (PCC Pole as per state practice)	No					
3.02	13 m long H-Beam 152x152 mm 37.1 kg/mtr	No					
3.03	11 M long steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980)	No					
3.04	13 M long steel Tubular poles with welded steel base plate of Designation 540 SP 72 (IS 2713, Pt I, II, III 1980)	No					
4.00	Erection of following types of additional poles matching with existing line supports by providing and installing danger plate, anti-climbing devices (barbed wire), earthing material (coil and 8SWG GI wire), red oxide & aluminium paint, pole numbering excluding cement concrete foundation using cement concreting foundation 1 part cement, 3 part sand, 6 part 40 mm size stone aggregate chips (1:3:6) etc as per scope of work, approved drawings and specifications:						
4.01	9.1 meter long /280 KG PCC Poles (PCC Pole as per state practice) - cement concreting (0.5 cmt)	No					
4.02	13 m long H-Beam 152x152 mm 37.1 kg/mtr - cement concreting (0.65 cmt)	No					
4.03	11 M long steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980) - cement concreting (0.65 cmt)	No					
4.04	13 M long steel Tubular poles with welded steel base plate of Designation 540 SP 72 (IS 2713, Pt I, II, III 1980) - cement concreting (0.65 cmt)	No					
5.00	Excavation of stay pit in following type of soils, as per scope of work, approved drawings and specifications:						
5.01	Normal soil	No					
5.02	Soft rock soil where blasting is not required	No					
5.03	Hard rock soil where blasting is required	No					
6.00	Erection of complete stay set with GI stay wire (7x4.00 mm dia), binding of stay wire, by providing Guy stay insulator (2 Nos.) and 0.3 cmt concreting 1 part cement, 3 part sand, 6 part 40 mm size stone aggregate chips (1:3:6) as per technical specifications, approved drawings and scope of works.	Set					
7.00	Erection, testing and commissioning of 33 kV insulator including their hardware fittings as per technical specification, approved drawings and scope of work.						
7.01	33 kV Pin insulator with GI pin	Set					
7.02	33 kV Disc insulator with strain hardware (set of 3, 11 KV disc insulators)	Set					

8.00	Erection, testing & commissioning of new Pre-fabricated steel items like V cross arm, top clamp, DC cross arm, bracket, clamps, cross bracings, bracings, strain plate, guarding channels, back clamp, etc made of MS Channels, MS angle, MS flats of given sizes for over head structures and providing red oxide & aluminium painting as per technical specification, approved drawings and scope of work.	MT					
9.00	Dismantling of existing overhead line conductor and fittings, depositing the dismantled material to employer's store and paying out & stringing of new ACSR conductor of following sizes by providing jointing sleeves, binding wire & tape & helical formed fittings etc as required as per technical specification, approved drawings and scope of work.						
9.01	6/4.72 mm+7/1.57 mm (100 mm ² Al. Area) - Dog replacing existing racoon conductor	km					
9.02	6/4.09 + 1/4.09 mm (80 mm ² Al. Area) - Racoon replacing existing rabbit/weasel conductor	km					
9.03	30/3.00 + 7/3.00 mm (200 mm ² Al. Area) - Panther replacing existing dog/racoon conductor	km					
10.00	Augmentation of 3 phase 33 kV line using new Insulator and hardware as per technical specification, approved drawings and scope of work						
10.01	33 KV polymer/porcelain Disc insulator 45 KN along with suitable hardware fittings	Set					
10.02	33 KV Polymer /porcelain Pin Insulators 10 KN with GI PIN	Set					
11.00	Erection, testing & commissioning of earthing as per technical specificatons, approved drawings and scope of work.						
11.01	40 mm dia., 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover plate on GI frame, bentonite powder and other accessories complete	Set					
11.02	GI Earthing spike made of 20mm solid Rod	Set					
11.03	Chemical rod earthing including electrode, chemical, with 2000mm long, 50 mm diameter GI pipe, GI Strip of 24x3mm minimum in hard rock locations only.	Set					
12.00	Erection, testing & commissioning of new 33kV, 600A, 25kA, 3-ph, 3 Pin type, Vertical Mounting type, Gang Operated, AB Switch along with Support Insulators, Base Channel down Pipe, Arcing Horns etc. complete as per technical specifications, scope of works and approved drawings	Set					
13.00	Erection, testing & commissioning of new GI wire for earthing and guarding as per technical specification, approved drawings and scope of work.						
13.01	6 SWG	MT					
13.02	8 SWG	MT					
F(III)	Augmentation of 11 KV lines						
1.00	Excavation of additional pole pit (of depth 1/6th of pole length) in normal soil as per scope of work, approved drawings and specifications:						
1.01	8 m/140 kgs PCC Poles - (PCC Pole as per state practice)	No					
1.02	13 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
1.03	11 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
1.04	11 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980)	No					
1.05	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)	No					

2.00	Excavation of additional pole pit (of depth 1/6th of pole length) in soft rock where blasting is not required as per scope of work, approved drawings and specifications:						
2.01	8 m/140 kgs PCC Poles - (PCC Pole as per state practice)	No					
2.02	13 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
2.03	11 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
2.04	11 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980)	No					
2.05	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)	No					
3.00	Excavation of additional pole pit (of depth 1/6th of pole length) in hard rock where blasting is required as per scope of work, approved drawings and specifications:						
3.01	8 m/140 kgs PCC Poles - (PCC Pole as per state practice)	No					
3.02	13 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
3.03	11 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
3.04	11 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980)	No					
3.05	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)	No					
4.00	Erection of following types of poles for 11 KV overhead line by providing and installing danger plate, anti-climbing devices (barbed wire), earthing material (coil and 8SWG GI wire), red oxide & aluminium paint, pole numbering excluding cement concrete foundation or refilling by bolders using cement concreting foundation 1 part cement, 3 part sand, 6 part 40 mm size stone aggregate chips (1:3:6) or/and 200 mm average size bolders mixed with excavated earth etc as per scope of work, approved drawings and specifications:						
4.01	8 m/140 Kgs PCC Poles with RCC Base plate/pad including refilling by brick ballast/ stone bolder as required - (state practices of PCC pole and base plate/stone to be used)	No					
4.02	8 m/140 Kgs PCC Poles with RCC Base plate/pad including concreting as per scope of work, technical specifications and approved drawings,	No					
4.03	13 m long H-Beam 152x152 mm, 37.1 kg/mtr - Cement concreting 0.65 cmt	No					
4.04	11 m long H-Beam 152x152 mm, 37.1 kg/mtr - Cement concreting 0.65 cmt	No					
4.05	11 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980) - Cement concreting 0.65 cmt	No					
4.06	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980) - Cement concreting 0.5 cmt	No					
5.00	Excavation of stay pit in following type of soils, as per scope of work, approved drawings and specifications:						
5.01	Normal soil	No					
5.02	Soft rock soil where blasting is not required	No					
5.03	Hard rock soil where blasting is required	No					
6.00	Erection of complete stay set with GI stay wire (7x3.15 mm dia), binding of stay wire, by providing Guy stay insulator (2 Nos.) and 0.2 cmt concreting 1 part cement, 3 part sand, 6 part 40 mm size stone aggregate chips (1:3:6) as per technical specifications, approved drawings and scope of works.	Set					

7.00	Erection, testing and commissioning of 11 kV insulator including their hardware fittings as per technical specification, approved drawings and scope of work.						
7.01	11 kV Pin insulator with GI pin	Set					
7.02	11 kV Disc insulator with strain hardware	Set					
8.00	Dismantling of existing overhead line conductor & fittings and depositing to Employer's store, Paying out, tensioning, binding of new conductor and tightening of stays and stringing, testing and commissioning of ACSR Conductor of following sizes including jointing sleeves, helical formed fittings, jumpering and by providing & erecting PG Clamps etc as required as per approved drawings, scope of work and technical specifications						
8.01	6/3.35 + 1/3.35 mm (50 mm ² Al. Area) - Rabbit by replacing existing weasel/squirrel conductor	km					
8.02	6/4.09 + 1/4.09 mm (80 mm ² Al. Area) - Raccoon by replacing existing rabbit/weasel/squirrel conductor	km					
8.03	6/4.72 mm+7/1.57 mm (100 mm ² Al. Area) - Dog by replacing existing racoon/rabbit conductor	km					
9.00	Erection, Testing and Commissioning of 11 kV AB Switch along with Support Insulators, Base Channel, down Pipe, Arcing Horns etc. complete as per technical specifications, scope of works and approved drawings	Set					
10.00	Erection, testing & commissioning of pre-fabricated steel items like V cross arm, top clamp, DC cross arm, bracket, clamps, cross bracings, bracings, strain plate, guarding channels, back clamp, etc made of MS Channels, MS angle, MS flats of given sizes for overhead structures and MS nuts, bolts & washers including painting by red oxide & aluminium paint as per technical specification, approved drawings and scope of work.	MT					
11.00	Earthing arrangement as per technical specifications, approved drawings and scope of work.						
11.01	Excavation, erection, testing & commissioning of 40 mm dia., 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover plates on GI frame, Charcoal, Salt and other accessories complete	Set					
11.02	Excavation, erection, testing & commissioning of Spike Earthing 20mm solid Rod	Set					
11.03	Excavation, erection, testing & commissioning of Chemical rod earthing including electrode, chemical, with 2000mm long, 50 mm diameter GI pipe, GI Strip of 24x3mm minimum in hard rock locations only.	Set					
11.04	Erection of 8 SWG GI wire for earthing and guarding by providing GI nut, bolts & washers, turn buckle etc	MT					
11.05	Erection of 6 SWG GI wire for earthing and guarding by providing GI nut, bolts & washers, turn buckle etc	MT					
F(IV)	Conversion of existing LT lines on bare conductor to Areal bunch XLPE cable						
1.00	Excavation of additional pole pit (of depth 1/6th of pole length) in normal soil as per scope of work, approved drawings and specifications:						
1.01	8 m/140 kgs PCC Poles - (PCC Pole as per state practice)	No					
1.02	13 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
1.03	11 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
1.04	11 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980)	No					
1.05	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)	No					
2.00	Excavation of additional pole pit (of depth 1/6th of pole length) in soft rock where blasting is not required as per scope of work, approved drawings and specifications:						

2.01	8 m/140 kgs PCC Poles - (PCC Pole as per state practice)	No					
2.02	13 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
2.03	11 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
2.04	11 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980)	No					
2.05	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)	No					
3.00	Excavation of additional pole pit (of depth 1/6th of pole length) in hard rock where blasting is required as per scope of work, approved drawings and specifications:						
3.01	8 m/140 kgs PCC Poles - (PCC Pole as per state practice)	No					
3.02	13 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
3.03	11 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
3.04	11 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980)	No					
3.05	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)	No					

4.00	Erection of following types of poles for LT overhead line by providing and installing danger plate, anti-climbing devices (barbed wire), earthing material (coil and 8SWG GI wire), red oxide & aluminium paint, pole numbering excluding cement concrete foundation or refilling by bolders using cement concreting foundation 1 part cement, 3 part sand, 6 part 40 mm size stone aggregate chips (1:3:6) or/and 200 mm average size bolders mixed with excavated earth etc as per scope of work, approved drawings and specifications:						
4.01	8 m/140 Kgs PCC Poles with RCC Base plate/pad including refilling by brick ballast/ stone bolder as required - (state practices of PCC pole and base plate/stone to be used)	No					
4.02	8 m/140 Kgs PCC Poles with RCC Base plate/pad including concreting as per scope of work, technical specifications and approved drawings,	No					
4.03	13 m long H-Beam 152x152 mm, 37.1 kg/mtr - Cement concreting 0.65 cmt	No					
4.04	11 m long H-Beam 152x152 mm, 37.1 kg/mtr - Cement concreting 0.65 cmt	No					
4.05	11 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980) - Cement concreting 0.65 cmt	No					
4.06	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980) - Cement concreting 0.5 cmt	No					
5.00	Excavation of stay pit in following type of soils, as per scope of work, approved drawings and specifications:						
5.01	Normal soil	No					
5.02	Soft rock soil where blasting is not required	No					
5.03	Hard rock soil where blasting is required	No					
6.00	Erection of complete stay set with GI stay wire (7x3.15 mm dia), binding of stay wire, by providing Guy stay insulator (2 Nos.) and 0.2 cmt concreting 1 part cement, 3 part sand, 6 part 40 mm size stone aggregate chips (1:3:6) as per technical specifications, approved drawings and scope of works.	Set					
7.00	Removal of existing LT bare conductor line & fixtures, depositing to stores of employer and erection, testing & commissioning of new areal bunched XLPE cable,tension clamps for dead end, suspension clamps, clamps for neutral, piercing connectors type-I & type-II, 16 mm dia MS nuts & bolts, pole clamps, spring loaded bus bar suitable for single phase and three phase systems etc. as required as per technical specification, approved drawings and scope of work:						
7.01	AERIAL BUNCHED XLPE CABLE 3 X 50 SQ.MM+1x35 SQ. MM.+1x16 SQ. MM.	Km					
7.02	AERIAL BUNCHED XLPE CABLE 3 X 35 SQ.MM.+1x35 SQ. MM.+1x16 SQ. MM.	Km					
7.03	AERIAL BUNCHED XLPE CABLE 3 X 25 SQ.MM.+1x35 SQ. MM.+ 1x16 SQ. MM.	Km					
7.04	AERIAL BUNCHED XLPE CABLE 3 X 16 SQ.MM. + 1x16 SQ. MM. +1x25 SQ. MM.	Km					
7.05	AERIAL BUNCHED XLPE CABLE 2 X 35 SQ.MM. + 1x16 SQ. MM.	Km					
7.06	AERIAL BUNCHED XLPE CABLE 2 X 25 SQ.MM. + 1x16 SQ. MM.	Km					
8.00	Erection, testing & commissioning of earthing by inserting GI Earthing spike made of 20mm solid Rod as per approved drawings, scope of work and technical specifications	Set					
9.00	Erection of 8 SWG GI wire for earthing by providing GI nut, bolts & washers, turn buckle etc as per approved drawings, scope of work and technical specifications	MT					

F (V)	Augmentation of 33/11 KV Fully outdoor type substation						
F (Va)	Civil works: Design, supply of all material, T&P, labour etc for the following civil works complete as per Technical Specification, approved Drawing & Scope of works						
1.00	Soil Investigation & Contour Survey of Substation area	PER S/S					
2.00	Gravel filling in switchyard area excluding road and footpath	Sq. m					
3.00	Design, engineering and construction of transformer foundation considering original equipment manufacturer prescription including excavation of pit, shuttering, reinforcement, cement concreting including providing and erecting guiding rail, wheel stopper etc as per Technical Specification, approved Drawing & Scope of works for following sizes of transformer:						
3.01	1.60 MVA without tap changer	CMT					
3.02	3.15 MVA without tap changer	CMT					
3.03	5.00 MVA with off load tap changer	CMT					
3.04	8.00 MVA with off load tap changer	CMT					
3.05	10.0 MVA with off load tap changer	CMT					

4.00	Design, engineering and construction of outdoor mounted Vacuum Circuit Breaker foundation considering original equipment manufacturer prescription including excavation of pit, shuttering and by providing reinforcement, cement concreting, painting etc as per Technical Specification, approved Drawing & Scope of works. Works also includes providing working platform for operation of breakers						
4.01	33 KV VCB	CMT					
4.02	11 KV VCB	CMT					
5.00	Providing and Construction of outdoor gantry structure foundation and erection of gantry structure (PCC pole/H-Beam/lattice structure) including top muffing and its painting by excavation of pit and by providing shuttering, cement concreting (0.65 cmt per structure) etc as per Technical Specification, approved Drawing & Scope of works	CMT					
6.00	Design, engineering and construction of cement concrete Cable Trench of 0.5 Mtr wide, required depth, precast RCC Trench Cover, Water slop, cable supporting angles including Labour, Reinforcement Steel, MS Angles, Flats, Steel Frame Work, Excavation etc, all complete as per Technical Specification, approved Drawing & Scope of works.	R/Mtr					
F (Vb)	Substation Electrical works						
1.00	Erection, filtration, testing and commissioning of 33/11 kV, 3 ph, 50 Hz, ONAN, Cu Wound, Outdoor Conventional type Power Transformer along with transformer oil, Buchholtz relay, breather, OTI & WTI, Marshalling Box, Conservator tank, oil level indicator, valves by providing 2 sets of 50x8 mm GS Neutral Earthing strips with braided conductor on bushing end supported with insulators, OTI & WTI Indicators, Vent explosion plug, control wiring / cabling, cable supporting tray on the body, transformer wheels, bushing etc as per Technical Specification, approved Drawing & Scope of works						
1.01	1.60 MVA without tap changer	No					
1.02	3.15 MVA without tap changer	No					
1.03	5.00 MVA with off load tap changer	No					
1.04	8.00 MVA with off load tap changer	No					
1.05	10.0 MVA with off load tap changer	No					
2.00	Fabrication and Erection of Gantry structures using MS channel, MS angle and MS flat of various sizes including MS nuts & bolts, by providing red oxide painting and aluminium painting etc as required as per Technical Specification, approved Drawing & Scope of works	MT					
3.00	Erection, testing and commissioning of 36kV, 1250A, 25kA for 3 seconds, 3-ph, Outdoor type Vacuum Circuit breaker along with 36kV, 1-Phase, 200-100/1-1 Amps outdoor type Current Transformer along with junction box (1 no junction box for 3 no of 1-phase CTs)], Jumpers, earthing, supporting structures, maintenance platform, marshalling box, control cabling between VCB and indoor control panel and required accessories complete as per Technical Specification, approved Drawing & Scope of works	SET					

4.00	Design, Engineering providing and installation of ISMC 75 channel on top of indoor trench, erection of panels on ISMC 75 channels, welding, testing and commissioning of 33kV indoor Control & Relay panel along with E/F & O/C relays, control and power supply cabling in trench between field equipment and panels, Mimic Diagram, Voltmeter, Ammeter, Annunciation Windows with annunciation relays and other components etc as per approved drawings, technical specifications and scope of the work for controlling:						
4.01	33 kV feeder VCB with Static Tri-Vector Energy Meter etc	No					
4.02	33 kV Power transformer VCB with Static Tri-Vector Energy Meter,	No					
5.00	Erection, testing and commissioning of 36kV, 630A, 25kA for 3 sec, 3-ph double break center rotating type (DBCR), Gang Operated, isolator along with Support Insulators, Operating Mechanism, Base Channel down Pipe and all required accessories complete as per approved drawings, technical specifications and scope of the work,	Set					
6.00	Erection, testing and Commissioning of 30kV, 10kA, 1-ph Station Class Lightning Arresters with mounting platform, jumpering from bus bar, earthing connection using 50x6mm GS flat, hardware etc as required, as per approved drawings, technical specifications and scope of the work,	No					
7.00	Erection, testing and Commissioning of 9kV, 10kA, 1-ph Station Class Lightning Arrester with mounting platform, jumpering from bus bar, earthing connection using 50x6mm GS flat, hardware, etc as required as per approved drawings, technical specifications and scope of the work.	No					
8.00	Erection, testing and Commissioning of 36 kV, 1-Phase, 33kV/110 volt, Single core outdoor type Potential transformer along with junction box (1 no junction box for 3 no of 1-phase PTs) including control and power supply cabling, earthing connection using 50x6mm GS flat and required accessories etc., complete as per as per approved drawings, technical specifications and scope of the work,	Set					
9.00	Erection, wiring, testing and commissioning of 12 kV, 1250 A, 25kA, 3-ph, Outdoor type Vacuum Circuit breaker along with 12 kV, 1-Phase, 300-150/5-5 A and 300-150/5-5, outdoor type Current Transformer along with junction box (1 no junction box for 3 no of 1-phase CTs), Jumpers, earthing, supporting structures, permanent maintenance platform, marshalling box, control cabling between VCB and indoor control panel and required accessories complete as per approved drawings, technical specifications and scope of the	Set					
10.00	Design, Engineering, providing foundation channel ISMC 75, erection, welding with MS angle of trench, wiring, control and power supply cabling in trench between field equipment and panels, testing and commissioning of 11kV indoor type control and relay panel consisting of A-meter, volt-meter, Relay & accessories complete as per specifications for transformer breaker as per approved drawings, technical specifications and scope of the work,	Set					
10.01	Transformer Protection Breaker Panel	No					
10.02	Feeder Protection Breaker Panel	No					

11.00	Installation, initial charging, cabling, interconnection cabling, testing and commissioning of 24V, 80 AH (or as per state practice) Ni-Cd or Pb Acid battery on battery stand made of teak wood duly painted with anti rusting paint, battery insulators, inter-battery wiring using 30 sqmm copper single core multi strand cable, terminal connectors, & all other accessories and connectors as per as per approved drawings, technical specifications and scope of the work,	Set					
12.00	Design, engineering, construction of foundation, Installation, interconnection cabling, testing and commissioning of 24V, 40 Amp. (or as per state practice) Float-Cum-Boost Battery Charger with full wave rectification for 220 V, 1 phase, 50 Hz AC Input Supply as per approved drawings, technical specifications and scope of the work,	No					
13.00	415 V, ACDB along with three phase-neutral voltmeter, three phase ammeter and Selector switches, 200 Amps TPN switch fuse unit as incomer, 32 Amps TPN switches as outgoing feeders suited for number of control panels, nos of VCB kiosk panel, having 20% spare outgoing feeders, mounting arrangements etc as per technical specifications, approved drawings and scope of works.	No					
14.00	24 Volts (or voltage as per state practices) Direct Current Distribution Board (DCDB) Indoor floor mounted comprising of 2P/100A DC Switch Fuse Unit as incomer and 2P/40A switch fuse units for each individual outgoing circuit of indoor control panels, indoor/outdoor VCB panels, control room emergency DC lighting including 20% as spare as per technical specifications, approved drawings and scope of works. .	Set					
15.00	Excavation, laying, welding, refilling, earthing & grounding conductor as per Approved Electrical Layout for each sub-station and erection of riser up to various equipment/gantry structures as per Technical Specification, approved Drawing & Scope of works	Set					
15.01	75 x 8 mm MS flat for ground mat	MT					
15.02	50 x 6 mm Galvanized GS flat (risers)	MT					
15.03	25 x 3 mm Galvanized GI flat (risers)	MT					
15.04	25 mm dia GI Rod 3 m long for earth mat	MT					
16.00	Excavation, erection, testing and commissioning of 40 mm dia., 3000 mm long GI pipe earth electrode by providing test link, RCC pit, RCC cover, placed on GI frame, bentonite powder and other accessories complete as per approved drawings, technical specifications and scope of the work for power transformer neutral, station transformer neutral, lightning arresters direct earthing.	Set					
17.00	Erection, testing and commissioning of Bus Conductor (Panther Conductor) and droppers (dog conductor) bus jumpers to various equipment using 11 KV and 33 KV insulators, GI Pin, GI Hardware fittings, PG Clamps, T-connectors etc as required as per approved drawings, specifications and scope of the work.	km					
18.00	Excavation, foundation, Erection, testing and commissioning through erection of support, Capacitor bank equipment in the substation yard, erection, testing and commissioning of VCB, VCB Panel, Control and power supply cabling, Earthing, etc as required as per approved drawings, specifications and scope of work.						
18.01	600 KVAr	Set					
18.02	1200 KVAr	Set					
18.03	1500 KVAr						

19.00	Laying, testing and commissioning of Control Cables in cable trench/pipes/underground/overhead laying including their termination at indoor/outdoor terminals including supply of glands, lugs, cable ties, etc as required as per Technical Specification, approved Drawing & Scope of works						
19.01	2 Core 2.5 sqmm armored, stranded copper conductor, PVC insulated and PVC sheathed cable	MTR					
19.02	6 Core 2.5 sqmm armored, stranded copper conductor, PVC insulated and PVC sheathed cable	MTR					
19.03	10 Core 2.5 sqmm armored, stranded copper conductor, PVC insulated and PVC sheathed cable	MTR					
F (VI)	Augmentation of 33/11 KV partly outdoor type substation						
F(VIa)	Civil works: Design, supply of all material, T&P, labour etc for the following civil works complete as per Technical Specification, approved Drawing & Scope of works						
1.00	Gravel filling in switchyard area excluding road and footpath as per Technical Specification, approved Drawing & Scope of works.	Sq. m					
2.00	Design, engineering and construction of transformer foundation considering original equipment manufacturer prescription including excavation of pit, shuttering, reinforcement, cement concreting including providing and erecting guiding rail, wheel stopper etc as per Technical Specification, approved Drawing & Scope of works for following sizes of transformer:						
2.01	1.60 MVA without tap changer	CMT					
2.02	3.15 MVA without tap changer	CMT					
2.03	5.00 MVA with off load tap changer	CMT					
2.04	8.00 MVA with off load tap changer	CMT					
2.05	10.0 MVA with off load tap changer	CMT					
3.00	Design, engineering and construction of outdoor mounted Vacuum Circuit Breaker foundation considering original equipment manufacturer prescription including excavation of pit, shuttering and by providing reinforcement, cement concreting, painting etc as per Technical Specification, approved Drawing & Scope of works. Works also includes providing working platform for operation of breakers and painting						
3.01	33 KV VCB	CMT					
3.02	11 KV VCB	CMT					
4.00	Providing and Construction of outdoor gantry structure foundation and erection of gantry structure (PCC pole/H-Beam/lattice structure) including top muffing and its painting by excavation of pit and by providing shuttering, cement concreting (0.65 cmt per structure) etc as per Technical Specification, approved Drawing & Scope of works	CMT					
5.00	Design, engineering and construction of cement concrete Cable Trench of 0.5 Mtr wide, required depth, precast RCC Trench Cover, Water slop, cable supporting angles including Labour, Reinforcement Steel, MS Angles, Flats, Steel Frame Work, Excavation etc, all complete as per Technical Specification, approved Drawing & Scope of works.	R/Mtr					
F(VIb)	Substation Electrical works						

1.00	Erection, filtration, testing and commissioning of 33/11 kV, 3 ph, 50 Hz, ONAN, Cu Wound, Outdoor Conventional type Power Transformer along with transformer oil, Buchholtz relay, breather, OTI & WTI, Marshalling Box, Conservator tank, oil level indicator, valves by providing 2 sets of 50x8 mm GS Neutral Earthing strips with braided conductor on bushing end supported with insulators, OTI & WTI Indicators, Vent explosion plug, control wiring / cabling, cable supporting tray on the body, transformer wheels, bushing etc as per Technical Specification, approved Drawing & Scope of works						
1.01	1.60 MVA without tap changer	No					
1.02	3.15 MVA without tap changer	No					
1.03	5.00 MVA with off load tap changer	No					
1.04	8.00 MVA with off load tap changer	No					
1.05	10.0 MVA with off load tap changer	No					
2.00	Fabrication and Erection of Gantry structures using MS channel, MS angle and MS flat of various sizes including MS nuts & bolts, by providing red oxide painting and aluminium painting etc as required as per Technical Specification, approved Drawing & Scope of works	MT					
3.00	Erection, testing and commissioning of 36kV, 1250A, 25kA for 3 seconds, 3-ph, Outdoor type Vacuum Circuit breaker along with 36kV, 1-Phase, 200-100/1-1 Amps outdoor type Current Transformer along with junction box (1 no junction box for 3 no of 1-phase CTs)], Jumpers, earthing, supporting structures, maintenance platform, marshalling box, control cabling between VCB and indoor control panel and required accessories complete as per Technical Specification, approved Drawing & Scope of works	SET					
4.00	Design, Engineering providing and installation of ISMC 75 channel on top of indoor trench, erection of panels on ISMC 75 channels, welding, testing and commissioning of 33kV indoor Control & Relay panel along with E/F & O/C relays, control and power supply cabling in trench between field equipment and panels, Mimic Diagram, Voltmeter, Ammeter, Annunciation Windows with annunciation relays and other components etc as per approved drawings, technical specifications and scope of the work for controlling:						
4.01	33 kV feeder VCB with Static Tri-Vector Energy Meter etc	No					
4.02	33 kV Power transformer VCB with Static Tri-Vector Energy Meter,	No					
5.00	Erection, testing and commissioning of 36kV, 630A, 25kA for 3 sec, 3-ph double break center rotating type (DBCR), Gang Operated, isolator along with Support Insulators, Operating Mechanism, Base Channel down Pipe and all required accessories complete as per approved drawings, technical specifications and scope of the work,	Set					
6.00	Erection, testing and Commissioning of 30kV, 10kA, 1-ph Station Class Lightning Arresters with mounting platform, jumpering from bus bar, earthing connection using 50x6mm GS flat, hardware etc as required, as per approved drawings, technical specifications and scope of the work,	No					
7.00	Erection, testing and Commissioning of 9kV, 10kA, 1-ph Station Class Lightning Arrester with mounting platform, jumpering from bus bar, earthing connection using 50x6mm GS flat, hardware, etc as required as per approved drawings, technical specifications and scope of the work.	No					

8.00	Erection of 12 kV, 1250 A, 25kA for 3 seconds, 3-ph, indoor type Vacuum Circuit breaker and indoor control panel by providing ISMC 100 channel, levelling, alignment and welding on existing cable trench in control room. Erection, testing & commissioning of indoor VCB panel including 3 Nos indoor type Current Transformer, Potential Transformer, indoor mounting type control panel, by providing control cabling between VCB and indoor control panel and required accessories, bi-metallic clamps, A-meter, volt-meter, Relay & accessories complete for following arrangements and protection as per approved drawings, technical specifications and scope of the work. :						
8.01	Transformer Protection	Set					
8.02	Feeder Protection	Set					
8.03	Bus coupler	Set					
+	Installation, initial charging, cabling, interconnection cabling, testing and commissioning of 24V, 80 AH (or as per state practice) Ni-Cd or Pb Acid battery on battery stand made of teak wood duly painted with anti rusting paint, battery insulators, inter-battery wiring using 30 sqmm copper single core multi strand cable, terminal connectors, & all other accessories and connectors as per as per approved drawings, technical specifications and scope of the work,	Set					
10.00	Design, engineering, construction of foundation, Installation, interconnection cabling, testing and commissioning of 24V, 40 Amp. (or as per state practice) Float-Cum-Boost Battery Charger with full wave rectification for 220 V, 1 phase, 50 Hz AC Input Supply as per approved drawings, technical specifications and scope of the work,	No					
11.00	415 V, ACDB along with three phase-neutral voltmeter, three phase ammeter and Selector switches, 200 Amps TPN switch fuse unit as incomer, 32 Amps TPN switches as outgoing feeders suited for number of control panels, nos of VCB kiosk panel, having 20% spare outgoing feeders, mounting arrangements etc as per technical specifications, approved drawings and scope of works.	No					
12.00	24 Volts (or voltage as per state practices) Direct Current Distribution Board (DCDB) Indoor floor mounted comprising of 2P/100A DC Switch Fuse Unit as incomer and 2P/40A switch fuse units for each individual outgoing circuit of indoor control panels, indoor/outdoor VCB panels, control room emergency DC lighting including 20% as spare as per technical specifications, approved drawings and scope of works.	Set					
13.00	Excavation, laying, welding, refilling, earthing & grounding conductor as per Approved Electrical Layout for each sub-station and erection of riser up to various equipment/gantry structures as per Technical Specification, approved Drawing & Scope of works	Set					
13.01	75 x 8 mm MS flat for ground mat	MT					
13.02	50 x 6 mm Galvanized GS flat (risers)	MT					
13.03	25 x 3 mm Galvanized GI flat (risers)	MT					
13.04	25 mm dia GI Rod 3 m long for earth mat	MT					
14.00	Excavation, erection, testing and commissioning of 40 mm dia., 3000 mm long GI pipe earth electrode by providing test link, RCC pit, RCC cover, placed on GI frame, bentonite powder and other accessories complete as per approved drawings, technical specifications and scope of the work for power transformer neutral, station transformer neutral, lightning arresters direct earthing.	Set					

15.00	Erection, testing and commissioning of Bus Conductor (Panther Conductor) and droppers (dog conductor) bus jumpers to various equipment using 11 KV and 33 KV insulators, GI Pin, GI Hardware fittings, PG Clamps, T-connectors etc as required as per approved drawings, specifications and scope of the work.	km					
16.00	Laying, testing and commissioning of Control Cables in cable trench/pipes/underground/overhead laying including their termination at indoor/outdoor terminals including supply of glands, lugs, cable ties, etc as required as per Technical Specification, approved Drawing & Scope of works						
16.01	2 Core 2.5 sqmm armored, stranded copper conductor, PVC insulated and PVC sheathed cable	MTR					
16.02	6 Core 2.5 sqmm armored, stranded copper conductor, PVC insulated and PVC sheathed cable	MTR					
16.03	10 Core 2.5 sqmm armored, stranded copper conductor, PVC insulated and PVC sheathed cable	MTR					
17.00	Laying, erection, termination using indoor & outdoor termination kit, 11KV XLPE, Power armored cables of following sizes as per technical specifications, approved drawings and scope of works.:						
17.01	3Cx300 sqmm	km					
17.02	3Cx240 sqmm	km					
17.03	3Cx35 sqmm	km					
F(VII)	Erection, Testing & Commissioning of 11 KV CAPACITOR BANK INCLUDING MOUNTING STEEL GALVANISED STRUCTURE AND ACCESSORIES AS REQUIRED AS PER DETAILED TECHNICAL SPECIFICATIONS, DRAWING AND SCOPE OF WORKS IN FOLLOWING ARRANGEMENTS:						
1.00	CAPACITOR BANK 600 KVAR - FIXED TYPE SUBSTATION MOUNTED WITH CAPACITOR SWITCH AND ASSOCIATED ACCESSORIES	Set					
2.00	CAPACITOR BANK 1200 KVAR - AUTO TYPE SUBSTATION MOUNTED WITH ALL ASSOCIATED EQUIPMENT LIKE 11 KV VCB, C&R PANEL, CTs, 11 KV 200A ISOLATORS WITH EARTH SWITCH, RVT, 11 KV STATION CLASS LA, RED OXIDE / ALUMINIUM PAINTING, 2.5 SQ.MM. PVC ARMoured STRANDED COPPER CONTROL CABLES, PROTECTION CIRCUIT AND EQUIPMENT, EARTHING, 16 MM DIA MS NUTS & BOLTS ETC AS REQUIRED AS PER APPROVED TECHNICAL SPECIFICATIONS, DRAWING AND SCOPE OF WORKS	Set					
3.00	CAPACITOR BANK 1500 KVAR - AUTO TYPE SUBSTATION MOUNTED WITH ALL ASSOCIATED EQUIPMENT LIKE 11 KV VCB, C&R PANEL, CTs, 11 KV 200A ISOLATORS WITH EARTH SWITCH, RVT, 11 KV STATION CLASS LA, RED OXIDE / ALUMINIUM PAINTING, 2.5 SQ.MM. PVC ARMoured STRANDED COPPER CONTROL CABLES, PROTECTION CIRCUIT AND EQUIPMENT, EARTHING, 16 MM DIA MS NUTS & BOLTS ETC AS REQUIRED AS PER APPROVED TECHNICAL SPECIFICATIONS, DRAWING AND SCOPE OF WORKS	Set					
	Total						
	% discount, if any: _____						

DEVELOPMENT OF DISTRIBUTION INFRASTRUCTURE AT XXXX [Name of the District] District of XXXX [Name of State] UNDER REVAMPED REFORMS-BASED AND RESULTS-LINKED,

(Schedule of rates and prices)

Bidder's Name & Address:

Installation / Erection Charges :

All prices in Indian Rupees

G HIGH VOLTAGE DISTRIBUTION SYSTEM (HVDS)							
Service No.	Description of Related Services (excludes inland transportation and other services required in India to convey the goods to their final destination)	Unit	Quantity	Unit price	GST payable on the price quoted if Contract is awarded (%)	GST payable on the price quoted if Contract is awarded (Amount)	Total Price per line item
1	2	3	4	5	6	7	8
1.00	Survey, route alignment & pole spotting, preparation of survey report and uploading in the web portal after approval of Project Manager	Km					
2.00	Excavation of pole pit (of depth 1/6th of pole length) in normal soil as per scope of work, approved drawings and specifications:						
2.01	8 m/140 kgs PCC Poles (PCC Pole as per state practice)	No					
2.02	11 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
2.03	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)	No					
3.00	Excavation of pole pit (of depth 1/6th of pole length) in soft rock where blasting is not required as per scope of work, approved drawings and specifications:						
3.01	8 m/140 kgs PCC Poles (PCC Pole as per state practice)	No					
3.02	11 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
3.03	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)	No					
4.00	Excavation of pole pit (of depth 1/6th of pole length) in hard rock where blasting is required as per scope of work, approved drawings and specifications:						
4.01	8 m/140 kgs PCC Poles (PCC Pole as per state practice)	No					
4.02	11 m long H-Beam 152x152 mm, 37.1 kg/mtr	No					
4.03	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)	No					
5.00	Erection of following types of poles for 11 KV overhead line by providing and installing danger plate, anti-climbing devices (barbed wire), earthing material (coil and 8SWG GI wire), red oxide & aluminium paint, pole numbering including cement concrete foundation or refilling by bolders using cement concreting foundation 1 part cement, 3 part sand, 6 part 40 mm size stone aggregate chips (1:3:6) or/and 200 mm average size bolders mixed with excavated earth etc as per scope of work, approved drawings and specifications:						
5.01	8 m/140 Kgs PCC Poles with RCC Base plate/pad including refilling by brick ballast/ stone bolder as required - (state practices of PCC pole and base plate/stone to be used)	No					
5.02	8 m/140 Kgs PCC Poles with RCC Base plate/pad - Cement concreting 0.5 cmt	No					
5.04	11 m long H-Beam 152x152 mm, 37.1 kg/mtr - Cement concreting 0.65 cmt	No					
5.06	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980) - Cement concreting 0.5 cmt	No					

6.00	Erection, testing & commissioning of Pre-fabricated steel items like V cross arm, top clamp, DC cross arm, bracket, clamps, cross bracings, bracings, strain plate, guarding channels, back clamp, transformer mounting structure, DO mounting channel, Transformer clamping set, bracket, clamps, cross bracings, bracings, strain clamp, guarding channels, back clamp and MS nut, bolts & washers etc including red oxide and aluminium painting as per technical specification, approved drawings and scope of work.	MT					
7.00	Erection, testing & commissioning of earthing arrangement as per technical specification, approved drawings and scope of work.						
7.01	40 mm dia., 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover plate on GI frame, bentonite powder and other accessories complete	Set					
7.02	Spike earthing made of 20mm dia solid GI rod	Set					
7.03	Erection of 8 SWG GI Coil 115 tonnes (1.85 kg)	No					
7.04	8 SWG GI Wire, GI nuts, bolts & washers	MT					
8.00	Erection, testing & commissioning of Distribution Transformer Substation earthing using 3 Nos pipe earthing using 40mm dia GI pipe 3000 mm long, as per IS 1161 and as per REC construction drawings, making earth grid using 50x6mm GS Flat and riser as per scope of work, approved drawings and technical specifications,	Set					
9.00	Excavation of stay pit in following type of soils, as per scope of work, approved drawings and specifications:						
9.01	Normal soil	No					
9.02	Soft rock soil where blasting is not required	No					
9.03	Hard rock soil where blasting is required	No					
10.00	Erection of complete stay set with GI stay wire (7x3.15 mm dia), binding of stay wire, by providing Guy stay insulator (2 Nos.) and 0.2 cmt concreting 1 part cement, 3 part sand, 6 part 40 mm size stone aggregate chips (1:3:6) as per technical specifications, approved drawings and scope of works.	Set					
11.00	Erection, testing & commissioning of Porcelain / Polymer Insulators with mounting hardware, fittings as per technical specification, approved drawings and scope of work.						
11.01	11 KV 45 KN Disc Insulator with hardware fittings	set					
11.02	11 KV Pin insulators with GI Pin	set					
12.00	Removal of existing LT overhead line conductor and fixtures including shifting to Employer's store and erection, testing & commissioning of ACSR Conductors of following sizes with Jointing sleeves, binding materials, PG clamps, bi-metallic conductor, hardware etc for overhead line and jumpers as required as per technical specification, approved drawings and scope of work.						
12.01	6/2.59 + 1/2.59 mm (30 mm ² Al. Area) - Weasel	km					
12.02	6/3.35 + 1/3.35 mm mm (50 mm ² Al. Area) - Rabbit	km					
13.00	Erection, testing & commissioning of 12kV, 600A, 25kA for 3sec, 3-ph, 3 Pin type, Vertical Mounting type, Gang Operated, AB Switch along with Support Insulators, Base Channel down Pipe, Arcing Horns etc. complete as per technical specifications, scope of works and approved drawings	Set					
14.00	Erection, testing & commissioning of Distribution Transformer with all accessories as per as per technical specification, approved drawings and scope of work.						

14.01	Single Phase 10 KVA	No					
14.02	Single Phase 16 KVA	No					
14.03	Three Phase 16 KVA	No					
14.04	Three Phase 25 KVA	No					
14.05	Three Phase 63 KVA	No					
14.06	Three Phase 100 KVA	No					
15.00	Erection, testing & commissioning of Distribution Class 9 KV, 10 KA Lightening Arrester (Set of 3 units) for DT as per technical specification, approved drawings and scope of work.	Set					
16.00	Erection, testing & commissioning of 11 kV, 3-ph, Drop Out fuse units (set of 3 units) along with Support Insulators, Base Channel, fuse barrel etc. complete as per technical specifications, scope of works and approved drawings	Set					
17.00	Erection, testing & commissioning of LT Distribution box and LT control mechanism as per scope of the work, technical specifications and approved drawings suitable for following transformer:						
17.01	Single Phase 10 KVA	No					
17.02	Single Phase 16 KVA	No					
17.03	Three Phase 16 KVA	No					
17.04	Three Phase 25 KVA	No					
17.05	Three Phase 63 KVA	No					
17.06	Three Phase 100 KVA	No					
18.00	Erection, testing & commissioning of 1.1 KV PVC insulated, PVC sheathed, Aluminium Conductor, Stranded, unarmoured cable for connection of transformer LV bushing to Distribution Box and Distribution box to overhead line as per Scope of work, technical specification and approved drawings:						
18.01	2CX16 sqmm aluminium conductor cable	km					
18.02	4Cx16 sqmm aluminium conductor cable	km					
18.03	3.5CX25 sqmm aluminium conductor cable	km					
	Total						

% discount, if any: _____