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

(Schedule of rates and prices)

Ex-works supply of materials

Bidder's Name & Address:

All prices in Indian Rupees

A. New 33 KV Lines

Line Item No.	Description of Goods	Unit	Quantity	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	GST payable on the price quoted if Contract is awarded (%)	GST payable on the price quoted if Contract is awarded (Amount)
1.00	**Supports for 33 KV overhead line as per technical specification, approved drawings and scope of work.**								
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/m	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							
1.05	11 m long galvanised steel Wide Parallel Beams (zinc coating 610gms/sqm), WPB 160X23.84 kg/m expandable through jointing plates with welded steel base plate								
1.06	13 m long galvanised steel Wide Parallel Beams (zinc coating 610gms/sqm), WPB 160X23.84 kg/m expandable through jointing plates								

Line Item No.	Description of Goods	Unit	Quantity	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	GST payable on the price quoted if Contract is awarded (%)	GST payable on the price quoted if Contract is awarded (Amount)
2.00	**Pre-fabricated galvanised steel items (zinc 610gms/sqm), like V cross arm, top clamp, DC cross arm, bracket, clamps, cross bracings, bracings, strain plate, guarding channels, back clamp etc made of GS Channels (100x50x6mm), GS angle (65x65x6mm), GS flats (65x8mm) of given sizes for over head structures as per technical specification, approved drawings and scope of work.**	MT							
3.00	**GS Nuts, bolts and washers as per technical specification, approved drawings and scope of work.**	MT							
4.00	**Stay Set (Galvanised) with 50x8 mm stay clamps, guy insulator (2 Nos.), anchor plate (300x300x8mm), nut bolts, 2 Nos turn-buckles, 1.8 m long, 20 mm diameter solid GS stay rod & 7/4.00 mm dia GI stranded wire complete as per technical specification, approved drawings and scope of work.**	Set							
5.00	**Earthing arrangement as per technical specifications, approved drawings and scope of work.**								
5.01	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							
5.02	GI Earthing spike made of 20mm solid Rod	Set							

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5.03	8 SWG GI Coil 115 turns (1.85 kg)	No							
5.04	6 SWG GI wire for earthing and guarding with GI nuts, bolts & washers	MT							
5.05	8 SWG GI wire for earthing and guarding with GI nuts, bolts & washers	MT							
6.00	**Insulator and hardware as per technical specification, approved drawings and scope of work**								
6.01	33 KV polymer/porcelain Disc insulator 45 KN along with suitable hardware fittings	Set							
6.02	33 KV Polymer /porcelain Pin Insulators 10 KN with GI PIN	Set							
7.00	**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**								
7.01	6/4.09 + 1/4.09 mm (80 mm² Al. Area) - Racoon	km							
7.02	6/4.72 mm+7/1.57 mm (100 mm² Al. Area) - Dog	km							
7.03	30/3.00 + 7/3.00 mm (200 mm² Al. Area) - Panther	km							

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8.00	**33kV, 600A, 25kA, 3-ph, 3 Pin type, Horizontal / Vertical Mounting type (As desired by DISCOM), 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							
9.00	**33 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 (grade A for underground laying and grade B for pole support), OUTDOOR HEAT SHRINKABLE CABLE JOINTING KITS, 33 KV LIGHTENING ARRESTOR STATION CLASS 10KA (6 NOS.), LUGS, 4 Nos GI 3-Meters LONG PIPE EARTHING, 6 SWG GI WIRES, CABLE MARKERS, BI METALLICK CLAMPS, JUMPERING WITH 33 KV ARIAL BUNCHED CABLES 200 Sqmm dia (10 mtr) etc AS REQUIRED AS PER TECHNICAL SPECIFICATIONS, DRAWINGS AND SCOPE OF THE WORK.**	set							
	Total Ex-works								

% DISCOUNT, IF ANY: _____

Note:

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B New 33/11 KV Substation Works (Excluding civil works)

Line Item No.	Description of Goods	Unit	Quantity	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
B (I)	**33/11 KV Substation Works - Common for fully outdoor / partly outdoor substation**									
1.00	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, 2 sets of 50x8 mm GS Neutral Earthing strips {(with braided conductor on bushing end), isolating link, isolation with insulators}, Vent explosion plug, control wiring between sensing equipment and marshalling box, cable supporting tray on the body of transformer, transformer wheels, LV/HV bushing etc as required as per technical specifications, approved drawings and scope of the work.									
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 11/0.433 KV, 3-ph, 100 KVA, 50 HZ, outdoor type, oil immersed, as per IS1180 (Part-1): 2014 and its amendments 1, 2, 3 and 4, CRGO/Amorphous core, Energy Efficiency Level 1, carrying Bureau of Indian Standard Certificate mark as per detailed scope of work and technical specifications and drawings.**	No								
3.00	**DP structure for 11/0.4 KV Station Transformer comprising of H-Beam 152x152 mm 37.1 kg/mtr or or Wide Parallel Beams 160x23.84 kg/m, galvanised having zinc coating 610mg/sqm, 8 meter long comprising of 11 KV Isolators, 11 KV Station Type LAs structures, Transformer mounting channel, DO mounting channel, transformer belting, DC cross arm, back clamps, insulator with hardware etc all complete as per technical specifications, scope of works and approved drawings.**	Set								
4.00	**Galvanised Steel Gantry structures (zinc coating 610gms/sqm), made of galvanised H-Beam 152x152 mm 37.1 kg/mtr or galvanised Wide Parallel Beam 160x23.84 kg/m, 8 meter long, double MS Channel 100x50x6 mm cross arms of various length for bus bar supports (Beam), 65x65x6mm angle for cross arms/supporting structures and 50x8mm flats for clamps along with hardware items duly painted etc. as per technical specifications, scope of works and approved drawings.**	MT								
	OR									
	Galvanised Steel Gantry structures (zinc coating 610gms/sqm), made of Lattice structures of equal angles sections, flat as per approved drawings. State practices are to be adopted in the design. All structural steel members and bolts shall be galvanized after fabrication as per IS:4759 and zinc coating shall not be less than 610gm/sq. meter for all structural steel members. All L45x45x5 will have 23 mm back mark. All L50x50x6 will have 28mm back mark. 3.5mm spring washers are to be used under each nut, structural steel shall conform to IS 2026. All weld shall be 6mm filled weld unless specified otherwise. All nuts and bolts shall be of property class 5.6 of IS 1367. Plain washers shall be as per IS 2016 & spring washers shall be IS: 3063 as per technical specifications, scope of works and approved drawings..	MT								

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5.00	**36kV, 1250A, 25kA for 3 seconds, 3-ph, Outdoor type Vacuum Circuit breaker along with 36kV, 1-Phase, 200-100/5-5 Amps or 300-150/5-5 Amps 3 Nos outdoor type Current Transformers along with junction box (1 no junction box for 3 no of 1-phase CTs), Jumpers, earthing, supporting structures, bi-metallic clamps, permanent maintenance platform, marshalling box etc required as per technical specifications, scope of works and approved drawings**	No								
6.00	**33kV, Indoor, Control & Relay panel along with E/F & O/C relays, Mimic Diagram, Voltmeter, Ammeter, Annunciation Windows with annunciation relays and other components etc as per approved drawings, specifications and scope of works controlling:**									
6.01	33 kV feeder VCB with Static Tri-Vector Energy Meter	No								
6.02	Power transformer 33 kV VCB with Static Tri-Vector Energy Meter	No								
7.00	**36kV, 630A, 25kA for 3 seconds, 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 technical specifications, scope of works and approved drawings**	Set								
8.00	**30 kV, 10kA, 1-ph Station Class Lightening Arrester with mounting platform, jumpering from bus bar, hardware etc as required as per technical specifications, approved drawings and scope of the works.**	No.								
9.00	**9kV, 10kA, 1-ph Station Class Lightening Arrester with mounting platform, jumpering from bus bar, hardware, etc as required as per technical specifications, approved drawings and scope of the works.**	No.								
10.00	**24V, 80 AH Ni-Cd or Pb Acid battery (or as per state practice), battery stand made of teak wood duly painted with anti rusting paint, battery insulators, inter-battery wiring using 30 sqmm, 1.1 kv, copper single core multi strand cable, terminal connectors, & all other accessories and connectors as per technical specifications, approved drawings and scope of works.**	Set								
11.00	**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 technical specifications, approved drawings and scope of works.**	set								
12.00	**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								

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13.00	**24 Volts (or voltage as per state practices) Direct Curent Distribution Board (DCDB) Indoor floor mounted comprising of 2P/100A DC Switch Fuse Unit as incommer 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								
14.00	**ACSR Conductor for Bus-Bars & Jumpers/Droppers/Terminations including hardware fittings, hardware, T-claimp etc as per technical specifications, approved drawings and scope of works.**									
14.01	6/4.72 mm+7/1.57 mm (100 mm² Al. Area) - Dog	km								
14.02	30/3.00 + 7/3.00 mm (200 mm² Al. Area) - Panther	km								
15.00	**Earthing & Grounding conductor as per Approved Electrical Layout for each sub-station as per technical specifications, approved drawings and scope of works**									
15.01	75 x 8 mm GI flat for ground mat	MT								
15.02	50 x 6 mm Galvanized GI flat (risers)	MT								
15.03	25 x 3 mm Galvanized GI flat (risers)	MT								
15.04	25mm dia GI rod 3 m long for earth mat	MT								
16.00	**40 mm dia., 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover, placed on GI frame, bantonide powder and other accessories complete as per technical specification. (for Power Transformer Neutral, Station Transformer Neutral and Lightening Arresters direct earthing)**	Set								
17.00	**33 and 11 KV polymer/porcelain Insulator - Pin, Post and Disc insulators along with suitable hardware & accessories suitable for Panther/Dog conductors as per approved drawings & specifications.**	Set								
18.00	**Internal Electrification works of control room comprising of Main Distribution Board, Sub-distribution Boards, copper flexible multi conductor 2.5 sqmm wiring (for light & fan)/4 sqmm wiring(for power points), power and light points, conduits, fan/LED lamps/tube fittings, exhaust fans, switches, sockets, 2mm thick, PVC 25mm dia conduits pipes in recess, plugs, miniature circuit breakers, seperate independent earthing (2 Nos of 40mm GI Pipe/3-m long)etc as required including DC emergency lighting and auto-change-over switch as per technical specifcations, approved drawings and scope of work.**	Set								
19.00	**External Electrification in switch yard area including power receptacles, station yard lighting with 4 Nos lightening mast (fitted with 2x250 watts SON fittings) made of 12 meters high Steel Tubular Poles (IS 2713 part I, II III) of designation 410 – SP - 60, complete as per technical specifications, approved drawings and scope of the work.**	Set								

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20.00	**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								
21.00	**LT Power Cables including their termination materials like glands, lugs, tagging etc. as per technical specifications, approved drawings and scope of the work.**									
21.01	3.5 Core 150 Sq. mm armoured, stranded aluminium conductor, PVC insulated and PVC sheathed cable	km								
21.02	3.5 Core 70 Sq. mm armoured, stranded aluminium conductor, PVC insulated and PVC sheathed cable	km								
21.03	2 Core 16 Sq. mm armoured, stranded aluminium conductor, PVC insulated and PVC sheathed cable	km								
22.00	**LT Control cables including their termination materials like glands, lugs etc. as per technical specifications, approved drawings and scope of the work.**									
22.01	2 Core 2.5 sqmm armoured, stranded copper conductor, PVC insulated and PVC sheathed cable	km								
22.02	6 Core 2.5 sqmm armoured, stranded copper conductor, PVC insulated and PVC sheathed cable	km								
22.03	10 Core 2.5 sqmm armoured, stranded copper conductor, PVC insulated and PVC sheathed cable	km								
23.00	**Outdoor type Distribution Box for station transformer comprising 200 A switch fuse unit, 6 Nos SP MCCB– 90 A, 2 Nos 32 A SP MCCB, 3-ph, 63A, contactor controlled yard lighting timer unit, tri-vector electronic energy meter with suitable CT, control/power cabling and terminals, 1 No 20 A Industrial socket and switch for local power supply requirements, mounting channel, clamps and hardware as per scope of work, technical specifications and approved drawings,**	Set								
24.00	**12 kV, 800A, 25kA for 3 seconds, 3-ph double break centre rotating type (DBCR), Gang Operated Isolator along with Support Insulators, Operating Mechanism, Base Channel, down Pipe and all required accessories complete as per technical specifications, scope of works and approved drawings**	Set								
25.00	**12kV, 600A, 25kA for 3 sec, 3-Phase, 3 Pin type, Horizonal/Vertical Mounting type (as desired by DISCOM), Gang Operated, AB Switch, along with support insulators, Base Channel, down pipe, Arching Horns etc. and all complete accessories as per technical specifications, scope of works and approved drawings**	Set								
26.00	**36 kV, 3-pole, 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), bi-metallic clamp and required accessories etc., complete as per technical specifications, approved drawings and scope of the works.**	Set								

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27.00	**12 kV, 3-pole, 1-Phase, 11kV/110 volt, Single core outdoor type Potential Transformer along with junction box (1 no junction box for 3 no of 1-phase PTs), bi-metallic clamp and required accessories etc., complete as per technical specifications, approved drawings and scope of the works.**	set								
B (I)	**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								
B (IV)	**Description of items needed for fully outdoor type 33/11 kV substation**									
1.00	**12 kV, 1250 A, 25kA for 3 seconds, 3-ph, Outdoor type Vacuum Circuit breaker along with 12 kV, 1-Phase, 600-300/5-5 or 300-150/5-5 or 200-100/5-5 3 Nos outdoor type Current Transformer along with junction box (1 no junction box for 3 no of 1-phase CTs), Jumpers, earthing, supporting structures, bi-metallic clamps, permanent maintenance platform, marshalling box, control cabling between VCB and indoor control panel and required accessories complete as per technical specifications, approved drawings and scope of the works.**	No								
2.00	**Indoor type control and relay panel as per technical specifications, approved drawings and scope of works:**									
2.01	Indoor type control and relay panel for 11kV, 3phase, 1250 A VCB (Transformer Breaker) consisting of A-meter, volt-meter, Relays & accessories complete as per specifications for transformer breaker protection	No.								
2.02	Indoor type control and relay panel for 11 KV 3 phase, 1250 A VCB (Feeder Breakers) consisting of A-meter, volt-meter, Relays, energy meter (TVM) & accessories complete for feeder breaker protection as per technical specifications, approved drawings and scope of works.	No.								
B (V)	**Description of items needed for partly outdoor type 33/11 kV substation**									

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1.00	**12 kV, 1250 A, 25kA for 3 seconds, 3-ph, indoor type Vacuum Circuit breaker along with 12 kV, 1-Phase, 600-300/5-5 or 300-150/5-5 or 200-100/5-5 3 Nos indoor type Current Transformer, indoor mounting type control panel for Transformer breaker, control cabling between VCB and indoor control panel and required accessories, bi-metallic clamps, A-meter, volt-meter, Relay & accessories complete for transformer breaker protection as per technical specifications, approved drawings and scope of works.**	No								
2.00	**12 kV, 1250 A, 25kA for 3 seconds, 3-ph, indoor type Vacuum Circuit breaker along with 12 kV, 1-Phase, 300-150/5-5 or 200-100/5-5 3 Nos indoor type Current Transformer, indoor mounting type control panel for feeder protection, control cabling between VCB and indoor control panel and required accessories, bi-metallic clamps, A-meter, volt-meter, 3-phase electronic energy meter, Relay & accessories complete for feeder breaker protection as per technical specifications, approved drawings and scope of works.**	Set								
3.00	**12 kV, 1250 A, 25kA for 3 seconds, 3-ph, indoor type Vacuum Circuit breaker along with 12 kV, 1-Phase, 600-300/5-5 or 300-150/5-5 3 Nos indoor type Current Transformer, indoor mounting type control panel for bus coupler, control cabling between VCB and indoor control panel and required accessories, bi-metallic clamps, A-meter, volt-meter, 3-phase electronic energy meter, Relay & accessories complete as per specifications for bus coupler protection**	Set								
4.00	**11 KV, XLPE, 3 phase power cable armored, aluminium conductor, stranded, including their termination materials like glands, lugs, tagging etc as required as per technical specifications, approved drawings and scope of the works.**									
4.01	3Cx 300 sqmm	km								
4.02	3Cx 185sqmm	km								
4.03	3Cx35 Sqmm	km								
5.00	**Cable termination kit suitable for termination in transformer cable box/ breaker panel/ outdoor 11 KV terminals complete with all accessories etc. as per technical specifications, approved drawings and scope of the works.**									
5.01	3Cx 300 sqmm	set								
5.02	3Cx 185sqmm	set								
5.03	3Cx35 Sqmm	set								
6.00	**12 kV, 3-pole, 1-Phase, 11kV/110 volt, Single core Indoor type Potential Transformer along with required accessories etc., complete as per technical specifications, approved drawings and scope of the works.**	Set								
	Total Ex-works									

% DISCOUNT, IF ANY: _____

Note:

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D	Distribution Transformer Substations									
Line Item No.	**Description of Goods**	**Unit**	**Quantity**	**Unit Ex-works price**	**Total Ex-works price**	**Unit Price for inland transportation and other services required in India to convey the Goods to their final destination**	**Total Price for inland transportation and other services required in India to convey the Goods to their final destination**	**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**
1.00	**DTR Substation Supports as per technical specification, approved drawings and scope of work.**									
1.01	8 m/140 kgs PCC Poles - (PCC Pole as per state practice)	No								
1.02	9 m long galvanised H-Beam (zinc coating 610gms/sqm),152x152 mm, 37.1 kg/mtr	No								
1.03	11 m long galvanised H-Beam (zinc coating 610gms/sqm), 152x152 mm, 37.1 kg/mtr	No								
1.04	11 M/13 M long Steel Tubular poles (zinc coating 610gms/sqm), 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 (zinc coating 610gms/sqm), with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)	No								
1.06	11 m long galvanised steel Wide Parallel Beams (zinc coating 610gms/sqm), WPB 160X23.84 kg/m with welded steel base plate expandable through jointing plates	No								
1.07	9 m long galvanised steel Wide Parallel Beams (zinc coating 610gms/sqm), WPB 160X23.84 kg/m with welded steel base plate expandable through jointing plates	No								
2.00	**Pre-fabricated galvanised steel (zinc coating 610gms/sqm), 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) as per technical specification, approved drawings and scope of work.**	MT								
3.00	**GS Nuts, Bolts with Washers as per technical specification, approved drawings and scope of work.**	MT								
4.00	**Stay Set (Galvanised) with 50x8 mm stay clamp, stay insulator (2 Nos.), anchor plate (200x200x6mm), nut bolts, 2 Nos turn-buckles, 1.8 m long, 16 mm diameter solid GS stay rod & 7/3.15 mm dia GI stranded wire complete as per technical specification, approved drawings and scope of work.**	set								

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5.00	**Polymer/ Porcelain Insulators with hardware fittings, hardware etc as required as per technical specification, approved drawings and scope of work.**									
5.01	11 KV, Disc Insulator with suitable hardware fittings	Set								
5.02	11 KV, Post Insulators / Pin Insulators with hardware fittings	Set								
6.00	**Augmentation of Distribution Transformer Substation using new outdoor type, oil immersed, distribution transformer up to and including 2500 KVA as per IS1180 (Part-1): 2014 and its amendments 1, 2, 3 and 4, CRGO/Amorphous core, Energy Efficiency Level 1, carrying Bureau of Indian Standard Certificate mark, in following preferred ratings as per detailed scope of work and technical specifications:**									
6.01	11/0.230 kV Distribution Transformer 10 KVA 1 Phase Aluminium wound DTR	No								
6.02	11/0.230 kV Distribution Transformer 16 KVA 1 Phase Aluminium wound DTR	No								
6.03	11/0.4 KV Distribution Transformer 16 KVA 3 phase Aluminium wound DTR	No								
6.04	11/0.4 KV Distribution Transformer 25 KVA 3 phase Aluminium wound DTR	No								
6.05	11/0.4 KV Distribution Transformer 63 KVA 3 phase Aluminium wound DTR	No								
6.06	11/0.4 KV Distribution Transformer 100 KVA 3 phase Aluminium wound DTR	No								
6.07	11/0.4 KV Distribution Transformer 200 KVA 3 phase Aluminium wound DTR	No								
6.08	11/0.4 KV Distribution Transformer 315 KVA 3 phase copper wound DTR	No								
7.00	**Outdoor mounting type Distribution box made of MS sheet of thickness not less than 18 SWG CRCA sheet/ SMC Distribution Box, dust and moisture vermin, weather proof with degree of protection with suitable bus bars, earthing cum neutral bus, earthing terminals, box illumination, front door operated with proper locking arrangement, 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:**									
7.01	1 Ph 10 KVA transformer 45 A SPN MCCB (incomer) and 2 Nos. 32 A SP MCCB (outgoing)	No								

Line Item No.	Description of Goods	Unit	Quantity	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
7.02	1 Ph 16 KVA transformer 80 A SPN MCCB (incomer) and 2 Nos. 50 A SP MCCB (outgoing)	No								
7.03	3 Ph 16 KVA transformer 25 A TPN MCCB (incomer) and 6 Nos. 16 A SP MCCB (outgoing)	No								
7.04	3 Ph 25 KVA transformer 40 A TPN MCCB (incomer) and 6 Nos. 25 A SP MCCB (outgoing)	No								
7.05	3 Ph 63 KVA Transformer having 200 A TPN isolator, 100 A HRC fuse (incomer) and 6 Nos. 60 A SP MCCB (outgoing)	No								
7.06	3 Ph 100 KVA Transformer having 200 A TPN isolator, 160A HRC fuse (incomer) and 6 Nos. 90 A SP MCCB (outgoing)	No								
7.07	3 Ph 200 KVA Transformer having 600 A TPN isolator, 315 A HRC fuse (incomer) and 9 Nos. 120 A SP MCCB (outgoing)	No								
7.08	3 Ph 315 KVA Transformer having 600 A TPN isolator, 500 A HRC fuse (incomer) and 12 Nos. 120 A SP MCCB (outgoing)	No								
8.00	**11 KV Distribution Class Lightening Arrester for DT as per technical specification, approved drawings and scope of work.**	No								
9.00	**11 kV, 3-ph, 200 A, 3 Pin type, Horizontal/Vertical Mounting type (as desired by DISCOM), 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	**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								
11.00	**3 Nos pipe earthing using 40mm dia GI pipe 3000 mm long, making earth grid using 50x6mm GI Flat and riser as per scope of work of Distribution Transformer Substations, as per scope of work, approved drawings and technical specifications,**	Set								
12.00	**8 SWG GI wire for earthing as per technical specifications, approved drawings and scope of works.**	MT								
13.00	**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								

Line Item No.	Description of Goods	Unit	Quantity	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
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	**ACSR Rabbit Conductor for jumpering including PG Clamps, bi-metallic connectors, hardware etc as per technical specifications, approved drawings and scope of works.**	Km								
	Total Ex-works									

% DISCOUNT, IF ANY: _____

Note:

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

Ex-works supply of materials

Bidder's Name & Address:

All prices in Indian Rupees

E	New LT Line									
Line Item No.	**Description of Goods**	**Unit**	**Quantity**	**Unit Ex-works price**	**Total Ex-works price**	**Unit Price for inland transportation and other services required in India to convey the Goods to their final destination**	**Total Price for inland transportation and other services required in India to convey the Goods to their final destination**	**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**
1.00	**Support for LT overhead Line as per technical specification, approved drawings and scope of work.**									
1.01	8 m/140 kgs PCC Poles (PCC Pole as per state practice)	No								
1.02	9 m long galvanised H-Beam (zinc coating 610gms/sqm), 152x152 mm, 37.1kg/mtr	No								
1.03	9 M long Steel Tubular poles with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)	No								
1.04	9 m long galvanised steel Wide Parallel Beams (zinc coating 610gms/sqm), 160X23.84 kg/m with welded steel base plate expandable through jointing plates	No								
1.05	11 m long galvanised steel Wide Parallel Beams (zinc coating 610gms/sqm), 160X23.84 kg/m with welded steel base plate expandable through jointing plates									
2.00	**Galvanised Stay Set with anchor plate (200x200x6mm), 50x8mm stay clamp, Stay guy insulator, nut bolts, 2 Nos turn buckles, 1.8 m long, 16 mm diameter solid GS Stay rod & 7/3.15 mm Dia GI stranded wire etc as required as per technical specification, approved drawings and scope of work.**	Set								
3.00	**Earthing as per approved drawings, technical specifications and scope of work**									
3.01	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								
3.02	Spike Earthing 20mm solid Rod	Set								
3.04	8 SWG GI wire for earthing & GI nuts, bolts & washers	MT								
3.05333	41 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								
4.00	**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 GS 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:**									
4.01	AERIAL BUNCHED XLPE CABLE 3 X 50 SQ.MM+1x35 SQ. MM.+1x16 SQ. MM.	Km								
4.02	AERIAL BUNCHED XLPE CABLE 3 X 35 SQ.MM.+1x35 SQ. MM.+1x16 SQ. MM.	Km								
4.03	AERIAL BUNCHED XLPE CABLE 3 X 25 SQ.MM.+1x35 SQ. MM.+ 1x16 SQ. MM.	Km								
4.04	AERIAL BUNCHED XLPE CABLE 3 X 16 SQ.MM. + 1x16 SQ. MM. +1x25 SQ. MM.	Km								
4.05	AERIAL BUNCHED XLPE CABLE 2 X 35 SQ.MM. + 1x16 SQ. MM.	Km								
4.06	AERIAL BUNCHED XLPE CABLE 2 X 25 SQ.MM. + 1x16 SQ. MM.	Km								
	Total Ex-works									

% DISCOUNT, IF ANY: _____

Note:

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)

Ex-works supply of materials

Bidder's Name & Address:

All prices in Indian Rupees

F									
Line Item	**Description**	**Qty**	**Unit Ex-works price**	**Total Ex-works price**	**Unit Price for inland transportation and other services required in India to convey the Goods to their final destination**	**Total Price for inland transportation and other services required in India to convey the Goods to their final destination**	**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**
F(I)									
1.00	**Augmentation & Renovation of 11/0.4 kV Distribution Transformer Substation**								
1.01	**Augmentation of Distribution Transformer Substation using new outdoor type, oil immersed, distribution transformer up to and including 2500 KVA as per IS1180 (Part-1): 2014 and its amendments 1, 2, 3 and 4, CRGO/Amorphous core, Energy Efficiency Level 1, carrying Bureau of Indian Standard Certificate mark, in following preferred ratings as per detailed scope of work and technical specifications under:**								
1.02	New 63 KVA (11/0.4 kV) Aluminium wound DTR (Replacing 25KVA old DTR),								
1.03	New 100 KVA (11/0.4 kV) Aluminium wound DTR (Replacing 63 KVA old DTR),								
1.04	New 200 KVA (11/0.4 kV) Aluminium wound DTR (Replacing 100 KVA old DTR),								
	New 315 KVA (11/0.4 kV) Copper wound DTR (Replacing 200 KVA old DTR),								
2.00									
2.01	**Augmentation of DTR Substation by using 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 as per Scope of work, technical specification and approved drawings. Replaced cables to be deposited in Employer's store.**								
2.02	1Cx16 sqmm aluminium conductor cable								
2.03	1CX35 sqmm aluminium conductor cable								
2.04	1CX50 sqmm aluminium conductor cable								
2.05	1Cx70 sqmm aluminium conductor cable								
2.06	1Cx150 sqmm aluminium conductor cable								
	1Cx300 sqmm aluminium conductor cable								
3.00									

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
3.01	**Augmentation of DTR Substation by using new outdoor mounting type Distribution box made of MS sheet of thickness not less than 1.8 mm/ SMC distribution box, 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:**								
3.02	1 Ph 10 KVA transformer 45 A SPN MCCB (incomer) and 2 Nos. 32 A SP MCCB (outgoing) with metering								
3.03	1 Ph 16 KVA transformer 80 A SPN MCCB (incomer) and 2 Nos. 50 A SP MCCB (outgoing) with metering								
3.04	3 Ph 16 KVA transformer 25 A TPN MCCB (incomer) and 6 Nos. 16 A SP MCCB (outgoing) with metering								
3.05	3 Ph 25 KVA transformer 40 A TPN MCCB (incomer) and 6 Nos. 25 A SP MCCB (outgoing) with metering								
3.06	3 Ph 63 KVA Transformer having 200 A TPN isolator, 100 A HRC fuse (incomer) and 6 Nos. 60 A SP MCCB (outgoing)								
3.07	3 Ph 100 KVA Transformer having 200 A TPN isolator, 160A HRC fuse (incomer) and 6 Nos. 90 A SP MCCB (outgoing)								
3.08	3 Ph 200 KVA Transformer having 600 A TPN isolator, 315 A HRC fuse (incomer) and 9 Nos. 120 A SP MCCB (outgoing)								
	3 Ph 315 KVA Transformer having 600 A TPN isolator, 500 A HRC fuse (incomer) and 12 Nos. 120 A SP MCCB (outgoing)								
4.00									
4.01	**Renovation of DTR substation Earthing as per technical specification, approved drawings and scope of work:**								
	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								
5.00									

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
	Augmentation of DTR substation by new Pre-fabricated galvanised 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) as per technical specification, approved drawings and scope of work.								
6.00									
	Augmentation of DTR substation by new Galvanised Steel (GS) Nuts, Bolts with Washers as per technical specification, approved drawings and scope of work.								
7.00									
7.01	**Augmentation of DTR substation by new Polymer/ Porcelain Insulators with hardware fittings, hardware etc as required as per technical specification, approved drawings and scope of work.**								
7.02	11 KV, Disc Insulator with suitable hardware fittings								
	11 KV, Post Insulators / Pin Insulators with hardware fittings								
8.00									
	Augmentation of DTR substation by new 9KV, 11 KA Distribution Class Lightening Arrester for DT as per technical specification, approved drawings and scope of work.								
9.00									
	Augmentation of DTR substation by 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								
10.00									
	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.								
F(II)									
1.00	**Augmentation of 33 KV lines**								
1.01	**Augmentation of 3 phase 33 kV line using additional supports matching with length and type of existing support as per technical specifications, scope of works and approved drawings**								

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
1.02	9.1 meter long /280 KG PCC Poles (PCC Pole as per state practice)								
1.03	13 m long H-Beam 152x152 mm 37.1 kg/m								
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)								
	13 M long steel Tubular poles with welded steel base plate of Designation 540 SP 72 (IS 2713, Pt I, II, III 1980)								
2.00	13 M long Wide Parallel Beam 160X30.44 kg/m expandable using jointing plates								
	Augmentation of 3 phase 33 kV line using new Pre-fabricated galvanised 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 etc made of GS Channels (100x50x6mm), GS angle (65x65x6mm), GS flats (65x8mm) of given sizes for over head structures as per technical specification, approved drawings and scope of work.								
3.00									
3.01	**Augmentation of 3 phase 33 kV line replacing existing conductor with following type of new ACSR conductor including jointing sleeves, binding material and helical formed fittings etc as required as per technical specification, approved drawings and scope of work.**								
3.02	6/4.72 mm+7/1.57 mm (100 mm² Al. Area) - Dog replacing existing racoon conductor								
3.03	6/4.09 + 1/4.09 mm (80 mm² Al. Area) - Racoon replacing existing rabbit/weasel conductor								
	30/3.00 + 7/3.00 mm (200 mm² Al. Area) - Panther replacing existing dog/racoon conductor								
4.00									
4.01									
4.02	**Augmentation of 3 phase 33 kV line using new Insulator and hardware as per technical specification, approved drawings and scope of work**								
	33 KV polymer/porcelain Disc insulator 45 KN along with suitable hardware fittings								
5.00	33 KV Polymer /porcelain Pin Insulators 10 KN with GI PIN								
5.01									
5.02	**Augmentation of 3 phase 33 kV line using new Earthing arrangement as per technical specificatons, approved drawings and scope of work.**								

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
5.03	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								
5.04	GI Earthing spike made of 20mm solid Rod								
	Chemical rod earthing including electrode, chemical, with 2000mm long, 50 mm diameter GI pipe, GI Strip of 24x3mm miminum in hard rock locations only.								
6.00	8 SWG GI Coil 115 tonnes (1.85 kg)								
	Augmentation of 3 phase 33 kV line using new Stay Set (Galvanised) with 50x8 mm stay clamp, guy insulator, anchor plate (300x300x8mm) , nut bolts, 2 Nos turn-buckles, 1.8 m long, 20 mm diameter solid GS stay rod & 7/4.00 mm dia GI stranded wire complete as per technical specification, approved drawings and scope of work.								
7.00									
	Augmentation of 3 phase 33 kV line using new 33kV, 600A, 25kA, 3-ph, 3 Pin type, Horizontal/Vertical Mounting type (as desired by DISCOM), 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								
8.00									
8.01	**Augmentation of 3 phase 33 kV line using new GI wire for earthing and guarding as per technical specification, approved drawings and scope of work.**								
8.02	6 SWG								
	8 SWG								
F(III)									
1.00	**Augmentation of 11 KV lines**								
1.01	**Augmentation of 3 phase 11 kV line using additional supports matching with length and type of existing support as per technical specifications, scope of works and approved drawings**								
1.02	8 meter long /140 KG PCC Poles (PCC Pole as per state practice)								
1.03	13 m long H-Beam 152x152 mm 37.1 kg/m								
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)								
	11 M long Wide Parallel Beam 160X30.44 kg/m expandable using jointing plates								
2.00									

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
	Augmentation of 3 phase 11 kV line using new Pre-fabricated galvanised 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 etc made of GS Channels, GS angle, GS flats of given sizes for over head structures as per technical specification, approved drawings and scope of work.								
3.00									
3.01	**Augmentation of 3 phase 11 kV line replacing existing conductor with following type of new ACSR conductor including jointing sleeves, binding material and helicon formed fittings etc as required as per technical specification, approved drawings and scope of work.**								
3.02	6/3.35 + 1/3.35 mm (50 mm² Al. Area) - Rabbit by replacing existing weasel/squirrel condcutor								
3.03	6/4.09 + 1/4.09 mm (80 mm² Al. Area) - Racoon by replacing existing rabbit/weasel/squirel condcutor								
	6/4.72 mm+7/1.57 mm (100 mm² Al. Area) - Dog by replacing existing racoon/rabbit condcutor								
4.00									
4.01	**Augmentation of 3 phase 11 kV line using new Insulator and hardware as per technical specification, approved drawings and scope of work**								
4.02	11 KV polymer/porcelain Disc insulator 45 KN along with suitable hardware fittings								
	11 KV Polymer /porcelain Pin Insulators 10 KN with GI PIN								
5.00									
5.01	**Augmentation of 3 phase 11 kV line using new Earthing arrangement as per technical specificatons, approved drawings and scope of work.**								
5.02	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								
5.03	GI Earthing spike made of 20mm solid Rod								
5.04	Chemical rod earthing including electrode, chemical, with 2000mm long, 50 mm diameter GI pipe, GI Strip of 24x3mm miminum in hard rock locations only.								
	8 SWG GI Coil 115 tonnes (1.85 kg)								
6.00									

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
	Augmentation of 3 phase 11 kV line using new Stay Set (Galvanised) with 50x8 mm stay clamp, guy insulator, anchor plate (200x200x6mm) , nut bolts, 2 Nos turn-buckles, 1.8 m long, 16 mm diameter solid GI stay rod & 7/3.15 mm dia GI stranded wire complete as per technical specification, approved drawings and scope of work.								
7.00									
	Augmentation of 3 phase 11 kV line using new 11kV, 600A, 25kA, 3-ph, 3 Pin type, Horizontal/Vertical Mounting type (as desired by DISCOM), 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								
8.00									
8.01	**Augmentation of 3 phase 11 kV line using new GI wire for earthing and guarding as per technical specification, approved drawings and scope of work.**								
8.02	6 SWG								
	8 SWG								
F(IV)									
1.00	**Conversion of existing LT lines on bare conductor to Areal bunch XLPE cable**								
1.01	**Conversion of existing LT lines with bare conductor to AB XLPE cable using additional supports matching with length and type of existing support as per technical specifications, scope of works and approved drawings**								
1.02	8 m/140 kgs PCC Poles (PCC Pole as per state practice)								
1.03	9 M long Steel Tubular poles (zinc coating zinc coating 610 gms/sqm) with welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)								
1.04	9 m long galvanised H-Beam (zinc coating zinc coating 610 gms/sqm) 152x152 mm, 37.1kg/mtr								
1.05	9 m long Wide Parallel Beam (zinc coating 610gms/sqm), 116x23kg/m expandable with jointing plates								
2.00									

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
	Conversion of existing LT lines using new Galvanised Stay Set with anchor plate (200x200x6mm), 50x8mm GS stay clamp, Stay guy insulator,GS nut bolts, 2 Nos GS turn buckles, 1.8 m long, 16 mm diameter solid GS Stay rod & 7/3.15 mm Dia GI stranded wire etc as required as per technical specification, approved drawings and scope of work.								
3.00									
3.01	**Conversion of existing LT lines using new Earthing as per approved drawings, technical specifications and scope of work**								
3.02	Spike Earthing made of 20mm GI solid Rod								
	8 SWG GI wire for earthing and guarding								
4.00									
4.01	**Conversion of existing LT bare conductor line with following arrangements using 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:**								
4.02	AERIAL BUNCHED XLPE CABLE 3 X 50 SQ.MM+1x35 SQ. MM.+1x16 SQ. MM.								
4.03	AERIAL BUNCHED XLPE CABLE 3 X 35 SQ.MM.+1x35 SQ. MM.+1x16 SQ. MM.								
4.04	AERIAL BUNCHED XLPE CABLE 3 X 25 SQ.MM.+1x35 SQ. MM.+ 1x16 SQ. MM.								
4.05	AERIAL BUNCHED XLPE CABLE 3 X 16 SQ.MM. + 1x16 SQ. MM. +1x25 SQ. MM.								
4.06	AERIAL BUNCHED XLPE CABLE 2 X 35 SQ.MM. + 1x16 SQ. MM.								
	AERIAL BUNCHED XLPE CABLE 2 X 25 SQ.MM. + 1x16 SQ. MM.								
F (V)									
1.00	**Augmentation of 33/11 KV Fully outdoor type substation**								

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
1.01	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, 2 sets of 50x8 mm GS Neutral Earthing strips {(with braided conductor on bushing end), isolating link, isolation with insulators}, Vent explosion plug, control wiring between sensing equipment and marshalling box, cable supporting tray on the body of transformer, transformer wheels, LV/HV bushing etc as required as per technical specifications, approved drawings and scope of the work.								
1.02	1.60 MVA without tap changer								
1.03	3.15 MVA without tap changer								
1.04	5.00 MVA with off load tap changer								
1.05	8.00 MVA with off load tap changer								
	10.0 MVA with off load tap changer								
2.00	**Gantry structures made of galvanised steel (zinc coating 610 gms/sqm), H-Beam 152x152 mm 37.1 kg or galvanised Wide Parallel Beam 160x23.84 kg/m, 8 meter long, double GS Channel 100x50mm for bus bar supports (Beam), GS 65x65x6mm angle for cross arms/supporting structures and GS 50x8mm flats for clamps along with hardware items duly painted etc. as per technical specifications, approved drawings and scope of works.**								
	OR								
	Galvanised steel (zinc coating 610 gms/sqm), Gantry structures made of Lattice structures of equal angles sections, flat as per approved drawings. State practices are to be adopted in the design. All structural steel members and bolts shall be galvanized after fabrication as per IS:4759 and zinc coating shall not be less than zinc coating 610 gm/sq. meter for all structural steel members. All L45x45x5 will have 23 mm back mark. All L50x50x6 will have 28mm back mark. 3.5mm spring washers are to be used under each nut, structural steel shall conform to IS 2026. All weld shall be 6mm filled weld unless specified otherwise. All nuts and bolts shall be of property class 5.6 of IS 1367. Plain washers shall be as per IS 2016 & spring washers shall be IS: 3063 as per technical specifications, approved drawings and scope of works. .								
3.00									

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
	36kV, 1250A, 25kA for 3 seconds, 3-ph, Outdoor type Vacuum Circuit breaker along with 36kV, 1-Phase, 25kA/3 seconds, 200-100/5-5 Amps or 300-150/5-5 Amps 3 Nos outdoor type Current Transformers along with junction box (1 no junction box for 3 no of 1-phase CTs), Jumpers, earthing, supporting structures, bi-metallic clamps, permanent maintenance platform, marshalling box etc required as per technical specifications, scope of works and approved drawings								
4.00									
4.01	**33kV, Indoor, Control & Relay panel along with E/F & O/C relays, Mimic Diagram, Voltmeter, Ammeter, Annunciation Windows with annunciation relays and other components etc as per approved drawings, specifications and scope of works controlling:**								
4.02	33 kV feeder VCB with Static Tri-Vector Energy Meter								
	Power transformer 33 kV VCB with Static Tri-Vector Energy Meter								
5.00									
	36kV, 630A, 25kA for 3 seconds, 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 technical specifications, scope of works and approved drawings								
6.00									
	30 kV, 10kA, 1-ph Station Class Lightening Arrester with mounting platform, jumpering from bus bar, earthing connection using 50x6mm GS flat, hardware etc as required as per technical specifications, approved drawings and scope of the works.								
7.00									
	9kV, 10kA, 1-ph Station Class Lightening Arrester with mounting platform, jumpering from bus bar, earthing connection using 50x6mm GS flat, hardware, etc as required as per technical specifications, approved drawings and scope of the works.								
8.00									

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
	12 kV, 1250 A, 25kA for 3 seconds, 3-ph, Outdoor type Vacuum Circuit breaker along with 12 kV, 1-Phase, 600-300/5-5 or 300-150/5-5 or 200-100/5-5 3 Nos outdoor type Current Transformer along with junction box (1 no junction box for 3 no of 1-phase CTs), Jumpers, earthing, supporting structures, bi-metallic clamps, permanent maintenance platform, marshalling box, control cabling between VCB and indoor control panel and required accessories complete as per technical specifications, approved drawings and scope of the works.								
9.00									
9.01	**Indoor type control and relay panel as per technical specifications, approved drawings and scope of works:**								
9.02	Indoor type control and relay panel for 11kV, 3phase, 1250 A VCB (Transformer Breaker) consisting of A-meter, volt-meter, Relays & accessories complete as per specifications for transformer breaker protection								
	Indoor type control and relay panel for 11 KV 3 phase, 1250 A VCB (Feeder Breakers) consisting of A-meter, volt-meter, Relays, energy meter (TVM) & accessories complete as per specifications for feeder breaker protection								
10.00									
	24V, 80 AH (or as per State practice) Ni-Cd or Pb Acid battery, battery stand made of teak wood duly painted with anti rusting paint, battery insulators, inter-battery wiring using 30 sqmm, 1.1 kv, copper single core multi strand cable, terminal connectors, & all other accessories and connectors as per technical specifications, approved drawings and scope of works.								
11.00									
	24V, 40 Amp. (or as per State practice) Float-cum-Boost Battery Charger with full wave rectification for 230 V, 1 phase, 50 Hz AC Input Supply as per technical specifications, approved drawings and scope of works.								
12.00									

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
	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.								
13.00									
	24 Volts (or voltage as per state practices) Direct Curent Distribution Board (DCDB) Indoor floor mounted comprising of 2P/100A DC Switch Fuse Unit as incommer 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.								
14.00									
14.01	**ACSR Conductor for Bus-Bars & Jumpers/Droppers/Terminations including hardware fittings, hardware, T-claimp etc as per technical specifications, approved drawings and scope of works**								
14.02	6/4.72 mm+7/1.57 mm (100 mm² Al. Area) - Dog								
	30/3.00 + 7/3.00 mm (200 mm² Al. Area) - Panther								
15.00									
15.01	**Earthing & Grounding conductor as per Approved Electrical Layout for each sub-station as per technical specifications, approved drawings and scope of works with**								
15.02	75 x 8 mm GI flat for ground mat								
15.03	50 x 6 mm Galvanized GI flat (risers)								
15.04	25 x 3 mm Galvanized GI flat (risers)								
	25mm dia GI rod 3 m long for earth mat								
16.00									
	40 mm dia., 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover, placed on GI frame, bantonide powder and other accessories complete as per technical specification. (for Power Transformer Neutral, Station Transformer Neutral and Lightening Arresters direct earthing) as per technical specifications, approved drawings and scope of works.								
17.00									

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
	33 and 11 KV Insulator - Pin, Post and Disc insulators along with suitable hardware & accessories suitable for Panther/Dog conductors as per approved drawings & specifications.								
18.00									
18.01	**LT Control cables including their termination materials like glands, lugs etc. as per technical specifications, approved drawings and scope of the work.**								
18.02	2 Core 2.5 sqmm armoured, stranded copper conductor, PVC insulated and PVC sheathed cable								
18.03	6 Core 2.5 sqmm armoured, stranded copper conductor, PVC insulated and PVC sheathed cable								
	10 Core 2.5 sqmm armoured, stranded copper conductor, PVC insulated and PVC sheathed cable								
19.00									
	12 kV, 800A, 25kA for 3 seconds, 3-ph double break centre rotating type (DBCR), Gang Operated Isolator along with Support Insulators, Operating Mechanism, Base Channel, down Pipe and all required accessories complete as per technical specifications, scope of works and approved drawings								
20.00									
	12kV, 600A, 25kA for 3 sec, 3-Phase, 3 Pin type, Vertical Mounting type, Gang Operated, AB Switch, along with support insulators, Base Channel, down pipe, Arching Horns etc. and all complete accessories as per technical specifications, scope of works and approved drawings								
21.00									
	36 kV, 3-pole, 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 earthing connection using 50x6mm GS flat, bi-metallic clamp and required accessories etc., complete as per technical specifications, approved drawings and scope of the works.								
22.00									

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
	12 kV, 3-pole, 1-Phase, 11kV/110 volt, Single core outdoor type Potential Transformer along with junction box (1 no junction box for 3 no of 1-phase PTs) including earthing connection using 50x6mm GS flat, bi-metallic clamp and required accessories etc., complete as per technical specifications, approved drawings and scope of the works.								
F (VI)									
1.00	**Augmentation of 33/11 KV Partly outdoor type substation**								
1.01	**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, 2 sets of 50x8 mm GS Neutral Earthing strips {(with braided conductor on bushing end), isolating link, isolation with insulators}, Vent explosion plug, control wiring between sensing equipment and marshalling box, cable supporting tray on the body of transformer, transformer wheels, LV/HV bushing etc as required as per technical specifications, approved drawings and scope of the work.**								
1.02	1.60 MVA without tap changer								
1.03	3.15 MVA without tap changer								
1.04	5.00 MVA with off load tap changer								
1.05	8.00 MVA with off load tap changer								
	10.0 MVA with off load tap changer								
2.00									
	Gantry structures made of H-Beam 152x152 mm 37.1 kg /Wide Parallel Beam 160x23.84kg/m, 8 meter long, double MS Channel 100x50mm for bus bar supports (Beam), 65x65x6mm angle for cross arms/supporting structures and 50x8mm flats for clamps along with hardware items duly painted etc. as per technical specifications, approved drawings and scope of works.								
	Or								

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
	Gantry structures made of Lattice structures of equal angles sections, flat as per approved drawings. State practices are to be adopted in the design. All structural steel members and bolts shall be galvanized after fabrication as per IS:4759 and zinc coating shall not be less than zinc coating 610 gm/sq. meter for all structural steel members. All L45x45x5 will have 23 mm back mark. All L50x50x6 will have 28mm back mark. 3.5mm spring washers are to be used under each nut, structural steel shall conform to IS 2026. All weld shall be 6mm filled weld unless specified otherwise. All nuts and bolts shall be of property class 5.6 of IS 1367. Plain washers shall be as per IS 2016 & spring washers shall be IS: 3063 as per technical specifications, approved drawings and scope of works. .								
3.00									
	36kV, 1250A, 25kA for 3 seconds, 3-ph, Outdoor type Vacuum Circuit breaker along with 36kV, 1-Phase, 25kA/3 seconds, 200-100/5-5 Amps or 300-150/5-5 Amps 3 Nos outdoor type Current Transformers along with junction box (1 no junction box for 3 no of 1-phase CTs), Jumpers, earthing, supporting structures, bi-metallic clamps, permanent maintenance platform, marshalling box etc required as per technical specifications, scope of works and approved drawings								
4.00									
4.01	**33kV, indoor, Control & Relay panel along with E/F & O/C relays, Mimic Diagram, Voltmeter, Ammeter, Annunciation Windows with annunciation relays and other components etc as per approved drawings, specifications and scope of works controlling:**								
4.02	33 kV feeder VCB with Static Tri-Vector Energy Meter								
	Power transformer 33 kV VCB with Static Tri-Vector Energy Meter								
5.00									
	36kV, 630A, 25kA for 3 seconds, 3-ph double break centre rotating type (DBCR), Gang Operated, isolator along with Support Insulators, Operating Mechanism, Base Channel down Pipe and all required accessories complete as per technical specifications, scope of works and approved drawings								
6.00									

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
	30 kV, 10kA, 1-ph Station Class Lightening Arrester with mounting platform, jumpering from bus bar, earthing connection using 50x6mm GS flat, hardware etc as required as per technical specifications, approved drawings and scope of the works.								
7.00									
	9kV, 10kA, 1-ph Station Class Lightening Arrester with mounting platform, jumpering from bus bar, earthing connection using 50x6mm GS flat, hardware, etc as required as per technical specifications, approved drawings and scope of the works.								
8.00									
	12 kV, 1250 A, 25kA for 3 seconds, 3-ph, indoor type Vacuum Circuit breaker along with 12 kV, 1-Phase, 600-300/5-5 or 300-150/5-5 or 200-100/5-5 3 Nos indoor type Current Transformer, indoor mounting type control panel for Transformer breaker, control cabling between VCB and indoor control panel and required accessories, bi-metallic clamps, A-meter, volt-meter, Relays & accessories complete as per specifications for transformer breaker protection								
9.00									
	12 kV, 1250 A, 25kA for 3 seconds, 3-ph, indoor type Vacuum Circuit breaker along with 12 kV, 1-Phase, 300-150/5-5 or 200-100/5-5 3 Nos indoor type Current Transformer, indoor mounting type control panel for feeder protection, control cabling between VCB and indoor control panel and required accessories, bi-metallic clamps, A-meter, volt-meter, 3-phase electronic energy meter, Relay & accessories complete as per specifications for feeder breaker protection								
10.00									
	12 kV, 1250 A, 25kA for 3 seconds, 3-ph, indoor type Vacuum Circuit breaker along with 12 kV, 1-Phase, 600-300/5-5 or 300-150/5-5 3 Nos indoor type Current Transformer, indoor mounting type control panel for bus coupler, control cabling between VCB and indoor control panel and required accessories, bi-metallic clamps, A-meter, volt-meter, 3-phase electronic energy meter, Relay & accessories complete as per specifications for bus coupler protection								
11.00									

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
	24V, 80 AH (or as per state practices) Ni-Cd or Lead Acid battery, battery stand made of teak wood duly painted with anti rusting paint, battery insulators, inter-battery wiring using 30 sqmm, 1.1 kv, copper single core multi strand cable, terminal connectors, & all other accessories and connectors as per technical specifications, approved drawings and scope of works.								
12.00									
	24V, 40 Amp. (or as per state practice) Float-cum-Boost Battery Charger with full wave rectification for 230 V, 1 phase, 50 Hz AC Input Supply with built in DCDB as per technical specifications, approved drawings and scope of works.								
13.00									
	415V, 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 VCB-cum-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.								
14.00									
	24 Volts (or voltage as per state practices) Direct Curent Distribution Board (DCDB) Indoor floor mounted comprising of 2P/100A DC Switch Fuse Unit as incommer and 2P/40A switch fuse units for each individual outgoing circuit of indoor VCB-cum-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. .								
15.00									
15.01	**ACSR Conductor for Bus-Bars & Jumpers/Droppers/Terminations including hardware fittings, hardware, T-claimp etc as per technical specifications, approved drawings and scope of works.**								
15.02	6/4.72 mm+7/1.57 mm (100 mm² Al. Area) - Dog								
	30/3.00 + 7/3.00 mm (200 mm² Al. Area) - Panther								
16.00									
16.01	**Earthing & Grounding conductor as per Approved Electrical Layout for each sub-station with**								
16.02	75 x 8 mm GI flat for ground mat								
16.03	50 x 6 mm Galvanized GS flat (risers)								
16.04	25 x 3 mm Galvanized GI flat (risers)								

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
	25mm dia GI rod 3 m long for earth mat								
17.00									
	40 mm dia., 3000 mm long GI pipe earth electrode with test link, RCC pit, RCC cover plates on GI frame, bantonide powder and other accessories complete as per technical specification. (for Power Transformer Neutral, Station Transformer Neutral and Lightening Arresters direct earthing)								
18.00									
	33 and 11 KV Insulator - Pin, Post and Disc insulators along with Hardware & accessories suitable for Panther/Dog conductors as per approved drawings & specifications.								
19.00									
19.01	**LT Control cables including their termination materials like glands, lugs etc. as per technical specifications, approved drawings and scope of works.**								
19.02	2 Core 2.5 sqmm armored, stranded copper conductor, PVC insulated and PVC sheathed cable								
19.03	6 Core 2.5 sqmm armored, stranded copper conductor, PVC insulated and PVC sheathed cable								
	10 Core 2.5 sqmm armored, stranded copper conductor, PVC insulated and PVC sheathed cable								
20.00									
	12 kV, 400A, 25kA for 3 seconds, 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 technical specifications, scope of works and approved drawings								
21.00									
	12kV, 600A, 25kA for 3 sec, 3-Phase, 3 Pin type, Vertical Mounting type, Gang Operated, AB Switch, along with support insulators, Base Channel, down pipe, Arching Horns etc. and all complete accessories as per technical specifications, scope of works and approved drawings								
22.00									
	36 kV, 3-pole, 1-Phase, 33kV/110 volt, Single core outdoor type Potential Transformer including accessories etc., complete as per technical specifications, approved drawings and scope of the works.								
23.00									

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
23.01	**11 KV, XLPE, 3 phase power cable armored, aluminium conductor, stranded as per technical specifications, approved drawings and scope of works.**								
23.02	3Cx 300 sqmm								
23.03	3Cx 185sqmm								
	3Cx35 Sqmm								
24.00									
24.01	**Cable termination kit suitable for termination in transformer cable box/ breaker panel/ outdoor 11 KV terminals complete with all accessories etc. as per technical specifications, approved drawings and scope of works.**								
24.02	3Cx 300 sqmm								
24.03	3Cx 185sqmm								
	3Cx35 Sqmm								
25.00									
	12 kV, 3-pole, 1-Phase, 11kV/110 volt, Single core Indoor type Potential Transformer along with required accessories etc., complete as per technical specifications, approved drawings and scope of the works.								
F(VII)									
1.00	**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:**								
2.00	CAPACITOR BANK 600 KVAR - FIXED TYPE SUBSTATION MOUNTED WITH CAPACITOR SWITCH AND ASSOCIATED ACCESSORIES								
3.00	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, METERING EQUIPMENT WITH ENERGY METER, PROTECTION CIRCUIT AND EQUIPMENT, EARTHING, 16 MM DIA MS NUTS & BOLTS ETC AS REQUIRED AS PER APPROVED TECHNICAL SPECIFICATIONS, DRAWING AND SCOPE OF WORKS								

Line Item	Description	Qty	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
	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, METERING EQUIPMENT WITH ENERGY METER, PROTECTION CIRCUIT AND EQUIPMENT, EARTHING, 16 MM DIA MS NUTS & BOLTS ETC AS REQUIRED AS PER APPROVED TECHNICAL SPECIFICATIONS, DRAWING AND SCOPE OF WORKS								

Total Ex-works

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

Ex-works supply of materials

Bidder's Name & Address:

All prices in Indian Rupees

G HIGH VOLTAGE DISTRIBUTION SYSTEM (HVDS)

Line Item No.	Description of Goods	Unit	Quantity	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
1.00	**Support for conversion of existing LT line into 11 KV overhead line as per technical specification, approved drawings and scope of work.**									
1.01	8 m/140 kgs PCC Poles - (PCC Pole as per state practice)	No								
1.02	9 m long galvenised (zinc coating 610gms/sqm), H-Beam 152x152 mm, 37.1 kg/mtr with base plate	No								
1.03	11 m long galvenised (zinc coating 610gms/sqm), H-Beam 152x152 mm, 37.1 kg/mtr with base plate	No								
1.04	11 M long Steel, Tubular poles with 300x300x10mm welded steel base plate of Designation 540 SP 52 (IS 2713, Pt I, II, III 1980)									
1.05	9 M long Steel, Tubular poles with 300x300x10mm welded steel base plate of Designation 540 SP 28 (IS 2713, Pt I, II, III 1980)									
1.06	9 m long galvanised steel (zinc coating 610gms/sqm), Wide Parallel Beams WPB 160X23.84 kg/m with 300x300x10mm welded steel base plate expandable through jointing plates									
1.07	11 m long galvanised steel (zinc coating 610gms/sqm), Wide Parallel Beams WPB 160X23.84 kg/m with welded steel base plate expandable through jointing plates									
2.00	**Galvanised (zinc coating 610gm/sqm), 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, etc made of GS Channels (100x50x6 mm), GS angle (65x65x6mm), GS flats (65x8mm) of given sizes for over head structures as per technical specification, approved drawings and scope of work.**	MT								
3.00	**GS Nuts, Bolts with Washers as per technical specification, approved drawings and scope of work.**	MT								
4.00	**Galvanized Stay Set with anchor plate (200x200x6 mm), 50x8 mm Stay clamp, guy insulator (2 Nos.), nut bolts, 2 Nos turn buckles, 1.8 m long, 16 mm diameter solid GS stay rod & 7.3.15 mm dia GI stranded wire etc as required as per technical specification, approved drawings and scope of work.**	Set								
5.00	**Porcelain / Polymer Insulators with mounting hardware, fittings as per technical specification, approved drawings and scope of work.**									
5.01	11 KV 45 KN Disc Insulator with hardware fittings	set								
5.02	11 KV Pin insulators with GI Pin	set								

Line Item No.	Description of Goods	Unit	Quantity	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
6.00	**Earthing arrangement as per technical specification, approved drawings and scope of work.**									
6.01	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								
6.02	Spike earthing made of 20mm dia solid GI rod	Set								
6.03	8 SWG GI Wire	MT								
6.04	8 SWG GI Coil 115 turns (1.85 kg)	No								
7.00	**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								
8.00	**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.**									
8.01	6/2.59 + 1/2.59 mm (30 mm² Al. Area) - Weasel	km								
8.02	6/3.35 + 1/3.35 mm mm (50 mm² Al. Area) - Rabbit	km								
9.00	**Augmentation of Distribution Transformer Substation using new outdoor type, oil immersed, distribution transformer up to and including 2500 KVA as per IS1180 (Part-1): 2014 and its amendments 1, 2, 3 and 4, CRGO/Amorphous core, Energy Efficiency Level 1, carrying Bureau of Indian Standard Certificate mark, in following preferred ratings as per detailed scope of work and technical specifications:**									
9.01	Single Phase 10 KVA, 11/0.230 KV	No								
9.02	Single Phase 16 KVA, 11/0.230 KV	No								
9.03	Three Phase 16 KVA, 11/0.4 KV	No								
9.04	Three Phase 25 KVA, 11/0.4 KV	No								
10.00	**12kV, 600A, 25kA for 3sec, 3-ph, 3 Pin type, Horizontal/Vertical Mounting type (as desired by DISCOM), 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								
11.00	**Distribution Class 9KV, 10KA Lightening Arrester for DT as per technical specification, approved drawings and scope of work.**	No								

Line Item No.	Description of Goods	Unit	Quantity	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
12.00	**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								
13.00	**LT Distribution box with metering and LT control mechanism as per scope of the work, technical specifications and approved drawings suitable for following transformer:**									
13.01	Single Phase 10 KVA	No								
13.02	Single Phase 16 KVA	No								
13.03	Three Phase 16 KVA	No								
13.04	Three Phase 25 KVA	No								
14.00	**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:**									
14.01	2CX16 sqmm aluminium conductor cable	km								
14.02	4Cx16 sqmm aluminium conductor cable	km								
14.03	3.5CX25 sqmm aluminium conductor cable	km								
	Total Ex-works									

% DISCOUNT, IF ANY: _____

Note:

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

Ex-works supply of materials

Bidder's Name & Address:

All prices in Indian Rupees

G HIGH VOLTAGE DISTRIBUTION SYSTEM (HVDS)

Line Item No.	Description of Goods	Unit	Quantity	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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	12.65 kV, 1980 kVAr, 3-Phase, 50 C/s housed in Outdoor Type CRCA Panel, Capacitor bank having two variable step of 792 Kvar & one Variable steps of 396 kVAr. Bank shall be complete with Capacitor units of 264/132 kVAr, Aluminium busbars, Epoxy insulators, HT HRC fuse,Surge Suppressor etc. With details as follows-(1) 11 KV, Aluminium Wound, Dry type Series reactors (a) 0.528 kVAr for 792 kVAr step-6 nos. (b) 0.264 kVAr for 396 kVAr step-3 nos. (2) 11 kV, 3-Phase Indoor Dry Type RVT-1 nos. (3) 12 kV 3 Phase Indoor type metal enclosed Vacuum Contactor-3 nos. (4) Indoor Type Automatic Control Unit-1 No. (5) IP 55, outdoor CRCA cubicle panel for accommodating capacitors, series reactors, vacuum contactor, surge supressor etc., alongwith FRP canopy-1 No.	Set								
2	11 kV, 400 Amp, Off Load Isolator with earth switch and mounting structure.	No.								
3	9 kV, 10 kA, Class III Lightning Arrestor	No.								
4	Control cables, lugs/thimble, Junction Box etc.	set								
5	11 KV 3 Core Al. XLPE Insulated 3x185 mm sq. Cable	Mtr								
6	11KV XLPE Cable (3x185 sq.mm.) Heat Shrinkable Jointing kit Indoor	No.								
7	11KV XLPE Cable (3x185 sq.mm.) Heat Shrinkable Jointing kit Outdoor	No.								
8	11 KV VCB Switchgear for Capacitor Bank with complete arangement for connection with existing 11 KV bus bar.	No.								
9	24 Volt battery and battery charger with cabinet complete for capacitor VCB	Set								
10	Casting of Civil foundations	Job								
11	Cable trench for laying of power/control cables.	Rmt.								
12	Earthing for Panel, Isotator and LA's by Chemical pipe earthing	No.								
13	GI Strip of size-25 x 3 mm for Connection of Earthing with euipment	Rmt.								
14	12.65 kV, 3960 kVAr, 3-Phase, 50 C/s housed in Outdoor Type CRCA Panel, Capacitor bank having two variable step of 792 Kvar & two Variable steps of 1188 kVAr. Bank shall be complete with Capacitor units of 396/264 kVAr, Aluminium busbars, Epoxy insulators, HT HRC fuse, Surge Suppressor etc.with details as follows-(1) 11 kV, Aluminium Wound, Dry type Series reactors a) 0.528 kVAr for 792 kVAr step - 6 Nos. , b) 0.792 kVAr for 1188 kVAr step - 6 Nos. (2) 11 kV, 3-Phase Dry Type RVT - 1 No. (3) 12 kV 3 Phase Indoor type metal enclosed Vacuum Contactor - 4 Nos. (4) Indoor Type Automatic Control Unit - 1 No.(5) IP 55 , Outdoor CRCA cubicle Panel for accommodating capacitors, Series Reactor, Vacuum contactor, Surge Suppressor etc., along with FRP Canopy- 1 set	Set								
15	11 kV, 400 Amp, Off Load Isolator with earth switch and mounting structure.	No.								
16	9 kV, 10 kA, Class III Lightning Arrestor	No.								
17	Control cables, lugs/thimble, Junction Box etc.	set								

Line Item No.	Description of Goods	Unit	Quantity	Unit Ex-works price	Total Ex-works price	Unit Price for inland transportation and other services required in India to convey the Goods to their final destination	Total Price for inland transportation and other services required in India to convey the Goods to their final destination	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
18	11 KV 3 Core Al. XLPE Insulated 3x185 mm sq. Cable	Mtr								
19	11KV XLPE Cable (3x185 sq.mm.) Heat Shrinkable Jointing kit Indoor	No.								
20	11KV XLPE Cable (3x185 sq.mm.) Heat Shrinkable Jointing kit Outdoor	No.								
21	11 KV VCB Switchgear for Capacitor Bank with complete arangement for connection with existing 11 KV bus bar.	No.								
22	24 Volt battery and battery charger with cabinet complete for capacitor VCB	Set								
23	Casting of Civil foundations	Job								
24	Cable trench for laying of power/control cables.	Rmt.								
25	Earthing for Panel, Isotator and LA's by Chemical pipe earthing	No.								
	Total Ex-works									

% DISCOUNT, IF ANY: _____

Note: