

**BoQ**

**DEVELOPMENT OF DISTRIBUTION INFRASTRUCTURE AT AHMEDABAD (WEST) of GUJARAT UNDER REVAMPED REFORMS-BASED AND RESULTS-LINKED, DISTRIBUTION SECTOR SCHEME**  
**Bill of Quantity**

Bidder's Name & Address:

Installation / Erection Quantity :

<b>A (I)</b>	<b>Augmentation, Renovation and Modernisation of existing Distribution Transformer</b>		
<b>Service No.</b>	<b>Description of Related Services (excludes inland transportation and other services required in India to convey the goods to their final destination)</b>	<b>Unit</b>	<b>Quantity</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>A (I)</b>	<b>Augmentation &amp; Renovation of 11/0.4 kV Distribution Transformer Substation</b>		
<b>1.00</b>	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:		
1.03	New 200 KVA (11/0.4 kV) Aluminium wound DTR (Replacing 100 KVA old DTR),	No	4
	<b>Total</b>		

**DEVELOPMENT OF DISTRIBUTION INFRASTRUCTURE AT AHMEDABAD (WEST) of GUJARAT UNDER REVAMPED REFORMS-BASED AND RESULTS-LINKED, DISTRIBUTION SECTOR SCHEME**

**Bill of Quantity**

Bidder's Name &amp; Address:

Installation / Erection Quantity :

<b>A (II)</b>	<b>Crossing Removal (Safety)</b>		
<b>Service No.</b>	<b>Description of Related Services (excludes inland transportation and other services required in India to convey the goods to their final destination)</b>	<b>Unit</b>	<b>Quantity</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>1.00</b>	<b>Cables:</b>		
1.01	Installation, Testing & commissioning of 11 kV,(E),XLPE insulated Aluminium Conductor, Armoured cable as per enclosed specification 3 core 185 sq. mm. as per enclosed specification including rates for approval of local Authorities for laying of cable.(Make as approved by UGVCL) Laying of 11 KV (E) XLPE insulated aluminium armoured cable in ground up to 1200 mm deep, 500 mm wide cable trench providing sand cushioning before and after laying cable and covering with half round Hume pipe and refilling the trench.( rate shall include cost of excavation of trench and jumpering with existing overhead HT Line) as per technical specification, approved drawings and scope of work.	Mtr	1260.00
1.02	Laying of HDPE ducts conforming to IS:4984 having dia OD 110 mm, 6kg/cm <sup>2</sup> , 11.63 kg/6 RMT at a minimum depth of 1200mm below the road surface by pushthrough method by drilling the road with HDD machine without breaking the road surface for laying of cable for internal road crossing for enclosing HT/LT XLPE insulated aluminum armoured cable up to 240/185 sqmm through the duct as per the instructions of EIC as per technical specification, approved drawings and scope of work.	Mtr	0.00
<b>2.00</b>	<b>Indoor application: HT push on/heat shrink type end termination preferably for at switchgear end boxes, transformer( PAD/Pole mounted) for 11 kV XLPE Aluminium Conductor Armoured cable as specified with connection of leads including cutting,stripping of cable, insulations,providing compression type terminals,crimping of lugs with suitable crimping tool, as per technical specification, approved drawings and scope of work.</b>		
2.01	3Cx185 mm 2 11 KV XLPE	No	0.00
<b>3.00</b>	<b>Outdoor application: HT push on/heat shrink type end termination preferably for at switchgear end boxes, transformer( PAD/Pole mounted) for 11 kV XLPE Aluminium Conductor Armoured cable as specified with connection of leads including cutting,stripping of cable, insulations,providing compression type terminals,crimping of lugs with suitable crimping tool, as per technical specification, approved drawings and scope of work.</b>		
3.01	3Cx185 mm 2 11 KV XLPE	No	24.00
<b>4.00</b>	<b>Straight Joint: HT push on/heat shrink type straight joint preferably for 11 kV XLPE Aluminium Conductor Armoured cable as specified with connection of leads including cutting,stripping of cable, insulations,providing compression type terminals,crimping of lugs with suitable crimping tool.as per technical specification, approved drawings and scope of work.</b>		
4.01	3Cx185 mm 2 11 KV XLPE	No	0.00
<b>5.00</b>	<b>Earthing arrangement as per technical specifications, approved drawings and scope of work.</b>		
5.01	Erecting earth pit of minimum bore dia. 150 mm size approved make safe Earthing Electrode consisting Pipe in pipe Technology as per IS 3043-1987 made of corrosion free G.I. Pipes having Outer pipe dia of 50 mm having 80-200 Micron galvanising connections, terminal dia of 12 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation with civil works of earthing chamber. For Electrical installation covering Transformer neutrals,HT & LT switchgears for independent earthing in normal soil, Length of Pipe 3 mtrs.Backfilling compound 2 bagsof 25 Kg each	No	24.00
5.02	Installation & commissioning of earthing conductor 38 x 3 G.I. strip for pole mounted transformer and upto FSP,RMU as well as connection to be made to the earth pit. Rates inclusive of hot dipped hardware.	Mtr	248.00
<b>6.00</b>	<b>Providing 11kV Double Pole Structure with AB Switch 12kV, 600A, 25kA for 3sec, 3-ph, 3 Pin type, 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 on 8 Mtr PSC Poles as per approved drawings by Engineer in charge as per Technical Specification</b>	No	0.00
<b>7.00</b>	<b>Cable Laying above ground in air for termination of cable on pole with necessary accessories and wooden clamp as per Engineer Incharge</b>	Mtr	96.00
<b>8.00</b>	<b>Fixing of 100 mm Dia heavy duty GI pipe with clamping for the protection for the cable above the ground</b>	Mtr	72.00
<b>9.00</b>	<b>Stay Set (Galvanised) with 50x8 mm stay clamp, stay insulator (2 Nos.), anchor plate (200x200x6), nut bolts, 2 Nos turn-buckles, 1.8 m long, 16 mm diameter solid GS stay rod &amp; 7/3.15 mm dia GI stranded wire complete as per technical specification, approved drawings and scope of work.</b>	Set	12.00
<b>10.00</b>	<b>Cable Route Marker: Erecting RCC cable Route marker as per drawing duly marked with "DANGER" Mark, "UGVCL POWER CABLE" and Arrow of route of cable.</b>	No	25.00
<b>11.00</b>	<b>RCC CABLE TRENCH: Construction of RCC cable trench ( Three tier / Four tier) as per approved design and drawing and as per directives of engineer-in-charge with required excavation as per site condition, Base concreting, providing and laying of reinforcement as per design, concreting of M-20 grade for Pardi and Raft, Precast RCC cover of 75 mm thick, fabrication of cable tray as per design with one coat of red oxide and two coats of oil painting to structural steel, two coats of waterproof cement paint to all inside, outside surfaces of cable trench with top cover. the work to be done as per drawing and PWD specification. Detail description of major civil work activities involved are as under.</b>		
	i. Excavation for foundation in dense or hard soil up to 1.5 M depth including sorting out and stacking of useful materials and disposing of the excavated stuff up to 50 meter lead. And filling excavated stuff in trenches and besides cable trench in layers not exceeding 20 cm in depth with consolidating/watering etc. complete.		
	ii. Providing and laying cement concrete 1:4:8 (1 cement :4 coarse sand :8 Machine crush metal aggregates 40 mm nominal size) and curing complete including cost of form work in foundation etc. complete.		
	iii. Providing and laying control cement concrete M200 and curing complete including cost of form work and reinforcement for reinforced cement concrete work in (A)Raft Foundations, vertical pardi etc.(Form work of steel sheet to be utilized.)		
	iv. Providing and placing 75mm thick Precast RCC cover of size 1500 x 300mm, made in M-200 cement concrete with necessary reinforcement of 3 Nos. of 10 mm TMT bars bars as main bar and 8 mm TMT distribution bars at 200mm c/c incl providing 8mm TMT bars hook for lifting arrangement & curing, finishing all the surfaces etc complete incl. placing in position at site.		
	v. Providing and fabrication of structural steel for cable tray including cutting,erecting, fixing in position and applying one coat of red oxide & two coats of oil painting in angles, flat and like section etc complete.		
	vi.Expansion Joint: Providing and placing 12 mm thick premoulded asphalt or bitumen cork board filler joint at every 50 Mtr length.		
	(VII) Painting the inside, outside of Cable trench wall including precast cover with two coats of water proofing cement paint.		
	<b>Three tier cable trench as per approved design and drawing</b>	RMT	160.00
<b>12.00</b>	<b>RCC Stopper Wall at end of cable trench: Construction of 150 mm thick RCC stopper wall at end of cable trench as per approved drawing in cement concrete 1:2:4 including TMT bar reinforcement main/vertical bars and distribution bar of 8 mm dia @ 200 mm c/c both side including bending, binding and placing in position as per drawing and form work of steel sheets so as to give a fair finish including centering, shuttering, strutting and propping etc including providing &amp; fixing 110 mm dia. PVC pipe(6 kg/cm<sup>2</sup>) of 400mm length across the stopper wall with coupler &amp; plug for future cable laying etc complete as per drawing and as directed by EIC.</b>	JOB	2.00
<b>13.00</b>	<b>DISMANTALLING</b>		
13.01	Dismantalling PSC Pole 8 Mtr with cross arm,insulators,hardwares etc.and return it to UGVCL store.While dismantalling utmost care shall be taken so that the material so that the same can be reused by UGVCL.	No	0.00
13.02	Dismantalling PSC 10 Mtr/Rail/RSJ pole with cross arm,insulators,hardwares etc.and return it to UGVCL store.While dismantalling utmost care shall be taken so that the material so that the same can be reused by UGVCL.	No	0.00
13.03	Dismantalling of ACSR/Earth wire conductor & line material & after making coil and stacking the same at UGVCL store.Conductor length	Per Cond./KM	0.00

**DEVELOPMENT OF DISTRIBUTION INFRASTRUCTURE AT AHMEDABAD (WEST) OF GUJARAT UNDER REVAMPED REFORMS-BASED AND RESULTS-LINKED, DISTRIBUTION SECTOR SCHEME**

**Bill of Quantity**

Bidder's Name & Address:

Installation / Erection Quantity :

<b>A (III)</b>	<b>New Feeder / Feeder Bifurcation</b>		
<b>Service No.</b>	<b>Description of Related Services (excludes inland transportation and other services required in India to convey the goods to their final destination)</b>	<b>Unit</b>	<b>Quantity</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>1.00</b>	<b>Excavation of pole pit (of depth 1/6th of pole length) in normal soil as per scope of work, approved drawings and specifications:</b>		
1.01	10 m / 275 kgs PSC Poles - (PSC Pole as per state practice)	No	10
1.02	8 m / 200 kgs PSC Poles - (PSC Pole as per state practice)	No	
<b>2.00</b>	<b>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 &amp; 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:</b>		
2.01	10 m / 275 Kgs PSC Poles with Cement concreting 0.6 cmt	No	10
2.02	8 m / 200 Kgs PSC Poles with Cement concreting 0.6 cmt	No	
<b>3.00</b>	<b>Erection, testing &amp; 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 &amp; washers including painting by red oxide &amp; aluminium paint as per technical specification. approved drawings and scope of work.</b>	MT	
<b>4.00</b>	<b>Earthing arrangement as per technical specifications, approved drawings and scope of work.</b>		
4.01	Erecting earth pit of minimum bore dia. 150 mm size approved make safe Earthing Electrode consisting Pipe in pipe Technology as per IS 3043-1987 made of corrosion free G.I. Pipes having Outer pipe dia of 50 mm having 80-200 Micron galvanising connections, terminal dia of 12 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation with civil works of earthing chamber. For Electrical installation covering Transformer neutrals, HT & LT switchgears for independent earthing in normal soil, Length of Pipe 3 mtrs. Backfilling compound 2 bags of 25 Kg each	No	10.00
4.02	Installation & commissioning of earthing conductor 38 x 3 G.I. strip for pole mounted transformer and upto FSP, RMU as well as connection to be made to the earth pit. Rates inclusive of hot dipped hardwares.	Mtr	80.00
<b>5.00</b>	<b>Excavation of stay pit in following type of soils, as per scope of work, approved drawings and specifications:</b>		
5.01	Normal soil	No	20
<b>6.00</b>	<b>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.</b>	Set	20
<b>7.00</b>	<b>Erection, testing and commissioning of 11 kv insulator including their hardware fittings as per technical specification, approved drawings and scope of work.</b>		
7.01	11 kv Pin insulator with GI pin	Set	30
7.02	11 kv Disc insulator with strain hardware	Set	10
<b>8.00</b>	<b>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 &amp; erecting PG Clamps etc as required as per approved drawings, scope of work and technical specifications</b>		
8.01	6/4.72 mm+7/1.57 mm (100 mm <sup>2</sup> Al. Area) - Dog	kM	9.00
8.02	AL Alloy Conductor 55mm <sup>2</sup> Size	kM	
<b>9.00</b>	<b>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</b>	Set	7
<b>10.00</b>	<b>Cables:</b>		
10.01	Installation, Testing & commissioning of 11 kv, (E), XLPE insulated Aluminium Conductor, Armoured cable as per enclosed specification 3 core 185 sq. mm. as per enclosed specification including rates for approval of local Authorities for laying of cable. (Make as approved by UGVCL) Laying of 11 kv (E) XLPE insulated aluminium armoured cable in ground up to 1200 mm deep, 500 mm wide cable trench providing sand cushioning before and after laying cable and covering with half round Hume pipe and refilling the trench. (rate shall include cost of excavation of trench) as per technical specification. approved drawings and scope of work.	Mtr	8000.00
10.02	Laying of HDPE ducts conforming to IS:4984 having dia OD 110 mm, 6kg/cm <sup>2</sup> , 11.63 kg/6 RMT at a minimum depth of 1200mm below the road surface by pushthrough method by drilling the road with HDD machine without breaking the road surface for laying of cable for internal road crossing for enclosing HT/LT XLPE insulated aluminium armoured cable up to 240/185 sqmm through the duct as per the instructions of EIC as per technical specification. approved drawings and scope of work.	Mtr	5000.00
<b>11.00</b>	<b>Indoor application: HT push on/heat shrink type end termination preferably for at switchgear end boxes, transformer (PAD/Pole mounted) for 11 kv XLPE Aluminium Conductor Armoured cable as specified with connection of leads including cutting, stripping of cable, insulations, providing compression type terminals, crimping of lugs with suitable crimping tool, as per technical specification. approved drawings and scope of work.</b>		
11.01	3Cx185 mm 2 11 kv XLPE	No	2.00
<b>12.00</b>	<b>Outdoor application: HT push on/heat shrink type end termination preferably for at switchgear end boxes, transformer (PAD/Pole mounted) for 11 kv XLPE Aluminium Conductor Armoured cable as specified with connection of leads including cutting, stripping of cable, insulations, providing compression type terminals, crimping of lugs with suitable crimping tool, as per technical specification. approved drawings and scope of work.</b>		
12.01	3Cx185 mm 2 11 kv XLPE	No	14.00
<b>13.00</b>	<b>Straight Joint: HT push on/heat shrink type straight joint preferably for 11 kv XLPE Aluminium Conductor Armoured cable as specified with connection of leads including cutting, stripping of cable, insulations, providing compression type terminals, crimping of lugs with suitable crimping tool. as per technical specification, approved drawings and scope of work.</b>		
13.01	3Cx185 mm 2 11 kv XLPE	No	8.00
<b>14.00</b>	<b>Earthing arrangement as per technical specifications, approved drawings and scope of work.</b>		
14.01	Erection of maintenance free earthing system comprising of 17.2 mm dia 3 mtr Long Earthing Electrode of low carbon steel electrode with 250 microns copper coating + carbon based conductive concrete back fill safe compound (resistivity of less than 0.10 ohm mtr) & GI clamp. Supply, Earthing and Install pre cast RCC Earth pit Chamber (300*300 MM), Making 100 mm Dia Bore, 3 Mtr Long, Making of Earth pit chamber in normal Soil.	No	14.00
14.02	Installation & commissioning of earthing conductor 38 x 3 G.I. strip for pole mounted transformer and upto FSP, RMU as well as connection to be made to the earth pit. Rates inclusive of hot dipped hardwares.	Mtr	112.00
<b>15.00</b>	<b>Cable Laying above ground in air for termination of cable on pole with necessary accessories and wooden clamp as per Engineer Incharge</b>	Mtr	56.00
<b>16.00</b>	<b>Fixing of 100 mm Dia heavy duty GI pipe with clamping for the protection for the cable above the ground</b>	Mtr	42.00
<b>17.00</b>	<b>Cable Route Marker: Erecting RCC cable Route marker as per drawing duly marked with "DANGER" Mark, "UGVCL POWER CABLE" and Arrow of route of cable.</b>	No	160.00

**DEVELOPMENT OF DISTRIBUTION INFRASTRUCTURE AT AHMEDABAD (WEST) of GUJARAT UNDER REVAMPED REFORMS-BASED AND RESULTS-LINKED, DISTRIBUTION SECTOR SCHEME**

**Bill of Quantity**

Bidder's Name & Address:

Installation / Erection Quantity :

<b>A (IV)</b>	<b>Overhead to Underground Electrification Network</b>		
<b>Service No.</b>	<b>Description of Related Services (excludes inland transportation and other services required in India to convey the goods to their final destination)</b>	<b>Unit</b>	<b>Quantity</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>1.00</b>	<b>RMU : Installation, Testing &amp; Commissioning of SF6 gas insulated, 630Amp both sides extensible, SCADA compatible Ring Mains Units (RMU) including civil work i.e. plinth as per technical specification, approved drawings and scope of work.</b>		
1.01	2 Isolator (2-Way)	No	
1.02	1 Circuit Breaker 1 Isolator (2-Way)	No	23.00
1.03	3 Isolator (3-Way)	No	
1.04	1 Circuit Breaker 2 Isolator (3-Way)	No	883.00
1.05	2 Circuit Breaker 1 Isolator (3-Way)	No	
1.06	1 Circuit Breaker 3 Isolator (4-Way)	No	106.00
1.07	4 Isolator (4-Way)	No	
1.08	2 Circuit Breaker 2 Isolator (4-Way)	No	
1.09	1 Circuit Breaker 4 Isolator (5-Way)	No	19.00
1.10	1 Circuit Breaker 5 Isolator (6-Way)	No	
<b>2.00</b>	<b>Transformer: Installation, Testing &amp; Commissioning of 11/0.433 KV, Outdoor Transformers with HV/LV cable end boxes and CTs commissioned at LV end boxes for the following ratings [Transformer shall be suitable for pole mounting upto 315 kVA and Plinth mounting for 500 kVA (including plinth structure)] as per standard technical specifications.</b>		
2.01	100 kVA, Aluminium Wound CRGO / Amorphous Core	No	736.00
2.02	200 kVA, Aluminium Wound CRGO / Amorphous Core	No	123.00
2.03	315 kVA, Copper Wound CRGO / Amorphous Core	No	85.00
2.04	500 kVA, Copper Wound CRGO / Amorphous Core	No	60.00
<b>3.00</b>	<b>Cables:</b>		
3.01	Installation, Testing & commissioning of 11 kV,(E),XLPE insulated Aluminium Conductor, Armoured cable as per enclosed specification 3 core 240 sq. mm. as per enclosed specification including rates for approval of local Authorities for laying of cable.(Make as approved by UGVCL) Laying of 11 KV (E) XLPE insulated aluminium armoured cable in ground up to 1200 mm deep, 500 mm wide cable trench providing sand cushioning before and after laying cable and covering with half round Hume pipe and refilling the trench.( rate shall include cost of excavation of trench) as per technical specification, approved drawings and scope of work.	Mtr	439090.00
3.02	Installation, Testing & commissioning of 11 kV,(E),XLPE insulated Aluminium Conductor, Armoured cable as per enclosed specification 3 core 185 sq. mm. as per enclosed specification including rates for approval of local Authorities for laying of cable.(Make as approved by UGVCL) Laying of 11 KV (E) XLPE insulated aluminium armoured cable in ground up to 1200 mm deep, 500 mm wide cable trench providing sand cushioning before and after laying cable and covering with half round Hume pipe and refilling the trench.( rate shall include cost of excavation of trench) as per technical specification, approved drawings and scope of work.	Mtr	
3.03	Installation, Testing & commissioning of 11 kV,(E),XLPE insulated Aluminium Conductor, Armoured cable as per enclosed specification 3 core 70 sq. mm. for TC termination ( RMU to TC ) as per technical specification, approved drawings and scope of work.	Mtr	20080.00
3.04	Laying of HDPE ducts conforming to IS:4984 having dia OD 110 mm, 6kg/cm2, 11.63 kg/6 RMT at a minimum depth of 1200mm below the road surface by pushthrough method by drilling the road with HDD machine without breaking the road surface for laying of cable for internal road crossing for enclosing HT/LT XLPE insulated aluminium armoured cable up to 240/185 sqmm through the duct as per the instructions of EIC as per technical specification, approved drawings and scope of work.	Mtr	175610.00
<b>4.00</b>	<b>Indoor application: HT push on/heat shrink type end termination preferably for at switchgear end boxes, transformer( PAD/Pole mounted) for 11 kV XLPE Aluminium Conductor Armoured cable as specified with connection of leads including cutting,stripping of cable, insulations,providing compression type terminals,crimping of lugs with suitable crimping tool, as per technical specification, approved drawings and scope of work.</b>		
4.01	3Cx 240 mm 2 11 KV XLPE	No	3214.00
4.02	3Cx185 mm 2 11 KV XLPE	No	
4.03	3Cx 70 mm 2 11 KV XLPE	No	2008.00
<b>5.00</b>	<b>Outdoor application: HT push on/heat shrink type end termination preferably for at switchgear end boxes, transformer( PAD/Pole mounted) for 11 kV XLPE Aluminium Conductor Armoured cable as specified with connection of leads including cutting,stripping of cable, insulations,providing compression type terminals,crimping of lugs with suitable crimping tool, as per technical specification, approved drawings and scope of work.</b>		
5.01	3Cx 240 mm 2 11 KV XLPE	No	
5.02	3Cx185 mm 2 11 KV XLPE	No	
5.03	3Cx 70 mm 2 11 KV XLPE	No	135.00
<b>6.00</b>	<b>Straight Joint: HT push on/heat shrink type straight joint preferably for 11 kV XLPE Aluminium Conductor Armoured cable as specified with connection of leads including cutting,stripping of cable, insulations,providing compression type terminals,crimping of lugs with suitable crimping tool.as per technical specification, approved drawings and scope of work.</b>		
6.01	3Cx 240 mm 2 11 KV XLPE	No	439.09
6.02	3Cx185 mm 2 11 KV XLPE	No	0.00
<b>8.00</b>	<b>Erecting XLPE(IS:7098) (I)-88 ISI marked multistrand Aluminium conductor armoured cable for 1.1 kV to be laid on pole with HDPE pipe with clamping or in ground as well as existing cable trench/pipe at road crossing of 1C x 300 Sq MM, as per technical specification, approved drawings and scope of work.</b>	Mtr	60240.00
<b>9.00</b>	<b>Cable termination on FSP / MSP, LT Distribution Transformer Box of pole mounted transformer of LT cable grade as specified below including cutting,stripping of cable,insulations,providing compression type terminals,suitable cable glands,crimping lugs with necessary connections.</b>		0.00
9.01	1 core 300 Sq mm (Indoor)	No	16382.00
9.02	1 core 300 Sq mm (Out door - at LT Pole)	No	0.00
<b>10.00</b>	<b>CABLE TERMINAL FERRUALS: The PVC cable terminal ferruals for identification of phase sequence and feeders/ PSS / FSP name of HT/LT cables shall be provided at every termination of all cables stating details as under. HT cable/: feeder name/Phase (R/Y/B/N) LT cable : TC/ FSP name/ Phase ( R/Y/B/N)</b>	No	17173.00
<b>11.00</b>	<b>Earthing arrangement as per technical specifications, approved drawings and scope of work.</b>		
11.01	Erection of maintenance free earthing system comprising of 17.2 mm dia 3 mtr Long Earthing Electrode of low carbon steel electrode with 250 microns copper coating + carbon based conductive concrete back fill safe compound(resistivity of less than 0.10 ohm mtr) & GI clamp.Supply, Earcting and Install pre cast RCC Earth pit Chamber (300*300 MM),Making 100 mm Dia Bore, 3 Mtr Long, Making of Earth pit chamber in normal Soil.	No	7024.00
11.02	Installation & commissioning of earthing conductor 38 x 3 G.I. strip for pole mounted transformer and upto FSP,RMU as well as connection to be made to the earth pit. Rates inclusive of hot dipped hardwares.	Mtr	56192.00
<b>12.00</b>	<b>Erection of DP structure as per enclosed drawings(PSC poles 10 metres long )including supply of poles, 10 Kg/cm2 100 mm dia heavy duty GI pipe for protection of cable, hot dipped structural sections for mounting Transformer/RMU with box channel &amp; chain pulley block and required clamps for fitting cables,structures,100mm dia GI pipe etc with all hardwares, suitable RMU/Transformer centre and its accessories such as clamps,hardwares,pipe etc with necessary muffing with PCC for commissioning of 11kV/433 volts Distribution Transformers of following capacity as per approved drawings by Engineer in charge as per Technical Specification</b>	No	944.00
<b>13.00</b>	<b>Cable Laying above ground in air for termination of cable on pole with necessary accessories and wooden clamp as per Engineer Incharge</b>	Mtr	20888
<b>14.00</b>	<b>Fixing of 100 mm Dia heavy duty GI pipe with clamping for the protection for the cable above the ground</b>	Mtr	3012.00

**DEVELOPMENT OF DISTRIBUTION INFRASTRUCTURE AT AHMEDABAD (WEST) of GUJARAT UNDER REVAMPED REFORMS-BASED AND RESULTS-LINKED, DISTRIBUTION SECTOR SCHEME**

**Bill of Quantity**

Bidder's Name & Address:

Installation / Erection Quantity :

<b>A (IV)</b>	<b>Overhead to Underground Electrification Network</b>		
<b>Service No.</b>	<b>Description of Related Services (excludes inland transportation and other services required in India to convey the goods to their final destination)</b>	<b>Unit</b>	<b>Quantity</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
15.00	Stay Set (Galvanised) with 50x8 mm stay clamp, stay insulator (2 Nos.), anchor plate (200x200x6), 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	2008.00
16.00	Erecting 120x100x40 cms. Fuse section pillar fabricated from 4 mm Thermosetting Plastic ( moulded in a single piece ) i.e Glass Reinforced Polyester sheet Moulding Compound (SMC ) with cable clamps to be burried in ground to have appropriate erection on look unifrom unit erected with cement concrete foundation and 45 cms high brick masonry internal supported on both side with intrnal and outer side locking arrangement with lock and keys in duplicate .Incoming switchgear SFU of 800 Amp TPN and outgoing HRC SMC fuse base and knife type links 32 Amp to 630 Amp capacity fuse base fitted on 630 Amp current capacity copper Busbar with RYB colour coding and insulated strip with all internal connections and entry for incomming 1 core 300 sq mm 4 nos and outgoing 5/6 nos. 31/2 core cables of suitable sizes. (As per Technical specification of FSP )	No	1477.00
17.00	Cable Route Marker: Erecting RCC cable Route marker as per drawing duly marked with "DANGER" Mark, "UGVCL POWER CABLE" and Arrow of route of cable.	No	8782.00
18.00	PRE BONDING TAPE: For laying on trench after laying cable on trench to provid indication cable route below land surface in under ground trench to protect cable for mechanical injuries.	RMT	263480.00
19.00	Fixing chain link fencing to RMU as per Specification and drawing(approx. total running length of each fencing 10.8 meters)	RMT	11091.60
20.00	<b>DISMANTALLING</b>		
20.01	Dismantalling of pole mounted transformer,stacking the same after transporting to UGVCL store without any damage as and where condition.		
a	10 KVA	No	
b	16 KVA	No	
c	25 KVA	No	132
d	63 KVA	No	260
e	100 KVA	No	360
f	200 KVA	No	271
g	500 KVA	No	79
20.02	Dismantalling PSC Pole 8 Mtr with cross arm,insulators,hardwares etc.and return it to UGVCL store.While dismantalling utmost care shall be taken so that the material so that the same can be reused by UGVCL.	No	4270
20.03	Dismantalling PSC 10 Mtr/Rail/RSJ pole with cross arm,insulators,hardwares etc.and return it to UGVCL store.While dismantalling utmost care shall be taken so that the material so that the same can be reused by UGVCL.	No	1535
20.03	Dismantalling of ACSR/Earth wire conductor & line material & after making coil and stacking the same at UGVCL store.Conductor length	Per Cond./km	697.45