



PASCHIM GUJARAT VIJ COMPANY LIMITED

CIN : U40102GJ2003SGC042908

(LEADING ELECTRICITY DISTRIBUTOR IN WESTERN REGION OF GUJARAT IN INDIA)

PGVCL/Tech/UG/RCC P6/26-27/09

SCHEDULE-B

Conversion of Over Head to Underground Network

Vavdi Sub Division Rajkot City-3 Division of Rajkot Circle (42 Nos. of Feeders Covered)

Sr. No.	Particulars of Item	Grand Total in Rs.
1	SCHEDULE-B1: CONVERSION OF EXISTING OVERHEAD ELECTRICAL HT NETWORK IN TO UNDERGROUND CABLE NETWORK	
a	FOR SUPPLY PART	1324009683.19
b	FOR ERECTION PART	107667169.16
A	TOTAL AMOUNT (WITHOUT GST)	1431676852.35
3	BIDDER'S OFFER (+ / -) IN %	0.00%
4	BIDDER'S OFFER (+ / -) IN RUPEES	0.00
B	OFFERED TOTAL AMOUNT FOR SUPPLY AND ERECTION (WITHOUT GST)	1431676852.35
6	GST @ 18% ON "B"	257701833.42
D	GRAND TOTAL (WITH GST)	1689378685.77
Date	Signature of Bidder	Stamp

SCHEDULE-B: CONVERSION OF OVERHEAD TO UNDERGROUND ELECTRICAL NETWORK - Rajkot Corporation Area - Vavdi Sdn

Tender No. PGVCL/Tech/UG/RCC P6/26-27/09

Sr. No.	Particulars of Item	Unit	Supply Qty.	Unit Rate in Rs	Total in Rs	Erection Qty.	Unit Rate in Rs	Total in Rs	Grand Total
SCHEDULE-B: CONVERSION OF OVERHEAD TO UNDERGROUND HT ELECTRICAL NETWORK									
1	RMU : Supply,Installation,Testing & Commissioning of 11 KV SCADA, Ring Main Unit SF6 Gas Insulated as under preferably Siemens/ Schnieder/ABB/CG. (Including RCC foundation,masonry and all civil works, as per approve drawing by DISCOM)								
	SF6 Ring Main Unit with SCADA switching facility 630 A extensible.								
i	2 Isolator(2-Way)	Nos.	42	468036.20	19657520.4	42	8,979.20	3,77,126.40	2,00,34,646.80
ii	3 Isolator(3- Way)	Nos.	42	527677.50	22162455	42	10,751.35	4,51,556.70	2,26,14,011.70
iii	1 Circuit Breaker 2 Isolator(3-Way)	Nos.	225	554846.25	124840406.25	225	10,751.35	24,19,053.75	12,72,59,460.00
2	HT CABLES : Supply,installation,Testing & commissioning of 11 kV,(E),XLPE insulated Aluminium Conductor, Armoured cable, HDPE duct, Sand as per enclosed specification, including rates for approval of local Authorities for laying of cable.(Make as approved by GUVNL) With excavation,sand, back filling as per specification								
2(a)	Quantity of 3 core 300 sq. mm. To be laid in open trench through HDPE Pipe	Mtrs.	174309	2071.15	361020085.35	174309	385.25	6,71,52,542.25	42,81,72,627.60
2(b)	Quantity of 3 core 300 sq. mm. To be laid through push & pull method through HDPE Pipe 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 GIDC road crossing for enclosing HT/LT XLPE insulated aluminum armoured cable up to 300 sqmm through the duct as per the instructions of EIC.	Mtrs.	2771	2071.15	5739156.65	2771	948.75	26,28,986.25	83,68,142.90
3	Providing and Laying of HDPE ducts conforming to IS:4984 having dia OD/ID 140 mm, 6kg/cm2, 11.63 kg/6 RMT	Mtrs.	171985	603.75	103835943.75				10,38,35,943.75
4	OUTDOOR TERMINATION KIT: Supply,installation,Testing & commissioning as per specification & Drawing : HT push on/heat shrink type end termination preferably 3m(m-seal) or Raychem make at switchgear end boxes,transformer(PAD/Pole mounted) for 3 core 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.outdoor application								
4(a)	3 core 300 sq. mm.	Nos	5895	6480.25	38201073.75	5895	1,197.15	70,57,199.25	4,52,58,273.00
5	INDOOR TERMINATION KIT : Supply,installation,Testing & commissioning as per specification & Drawing : HT push on/heat shrink type end termination preferably 3m(m-seal) or Raychem make at switchgear end boxes,transformer(PAD/Pole mounted) for 3 core 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.Indoor application								
5(a)	3 core 300 sq. mm.	Nos	885	5184.20	4588017.00	885	1,197.15	10,59,477.75	56,47,494.75
6	STRAIGHT JOINT KIT: Supply,installation,Testing & commissioning as per specification & Drawing : HT push on/heat shrink type straight joint preferably 3m(m-seal) or Raychem make for up to 3 core 300/240/185 Sq mm 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..	Nos.							
6(a)	3C X 300 mm² 11 KV XLPE	Nos	590	8048.85	4748821.50	590	1,197.15	7,06,318.50	54,55,140.00
7	Lying of all types of cable in trench(without Excavation)	Mtrs.				3541.6	172.50	6,10,926.00	6,10,926.00
8	Lying of cable on pole i.e. Laying / relaying of cable from ground level to Pole structure for providing outdoor cable joint including clamping of cable to pole structure with wooden packing.	Mtrs.				47160	43.70	20,60,892.00	20,60,892.00
9	Lying of the cable in the Pipe(Without Excavation)	Mtrs.				177.1	57.50	10,182.10	10,182.10
10	Drilling work in Road/ASPH/RCC /Hard Rock Etc(Excavation with back filling as per the specification of cable lying)	Mtrs.				177.1	230.00	40,728.40	40,728.40
11	Supply and fixing of GI Pipe on wall/Pole (140 mm Dia Medium Duty pipe with rubber gland at both ends to avoid cable damages). This includes providing and fixing of M.S clamp at every 1 Mtr.(As per Directive of EIC)	Mtrs.	13260	402.50	5337150.00	13260	230.00	30,49,800.00	83,86,950.00
12	Supply and installation of any clamps made from 50x6 mm GI flat for fitting 140 mm dia medium class GI pipe/any other pipes above ground with pol/Wall etc (1 Pair = 2 Pcs.)	Pair	17685	115.00	2033775.00	17685	34.50	6,10,132.50	26,43,907.50

SCHEDULE-B: CONVERSION OF OVERHEAD TO UNDERGROUND ELECTRICAL NETWORK - Rajkot Corporation Area - Vavdi Sdn

Tender No. PGVCL/Tech/UG/RCC P6/26-27/09

Sr. No.	Particulars of Item	Unit	Supply Qty.	Unit Rate in Rs	Total in Rs	Erection Qty.	Unit Rate in Rs	Total in Rs	Grand Total
13	PRE BONDING TAP: For laying on trench after laying cable on trech to provide indication cable route below land surface in underground trench to protect cable for mechnical injuries.	Mtrs.	177080	17.25	3054630.00	177080	5.75	10,18,210.00	40,72,840.00
14	CABLE TERMINAL FERRULS: The PVC Cable terminal ferruls for identification of phase sequence and feeder/PSS/FSP name of HT/LT cables shall be provided at every termination of all cables stating detail as under. HT Cable :Feeder name/Phase(R/Y/B) LT Cable : TC/FSP name/Phase(R/Y/B/N)	Nos	5895	27.60	162702.00	5895	9.20	54,234.00	2,16,936.00
15	CABLE TAG: The PVC tag for identification of feeder/PSS/FSP/RMU name of HT/LT cables shall be provided at every 150 MTR, HT Feeder: Substation/Feeder LT Feeder : PSS/Transformer/FSP	Nos.	1181	27.60	32595.60	1181	9.20	10,865.20	43,460.80
16	EARTHING PIT : Supplying & 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.	Nos.	927	7475.00	6929325.00	927	1,150.00	10,66,050.00	79,95,375.00
17	Supply installation & commissioning of earthing conductor 38 x 3 G.I. strip for pole mounted transformer and RMU Etc as well as connection to be made to the earth pit. Rates inclusive of hot dipped hardwares.	Mtrs.	2781	158.70	441344.70	2781	59.80	1,66,303.80	6,07,648.50
18	Obtaining statutory approval from Electrical Inspector for installation of the system.	Job			0.00	1	1,43,750.00	1,43,750.00	1,43,750.00
	DISMENTALLING:								
19	Dismantallling RCC/Rail pole with cross arm,insulators,hardwares,stay, etc.and return it to discom store.While dismantalling utmost care shall be taken so that the material so that the same can be reused by discom.	Nos.	0			4404	155.25	6,83,721.00	6,83,721.00
20	Dismantalling of AAAC/ACSR/ABC/ Earth wire any size of conductor & line material & after making coil and stacking the same at discom store.Route length	Km.	0			153.924	2,300.00	3,54,025.20	3,54,025.20
21	Dismantalling of any type of service connection from the site and material return to DISCOM store as per directive of EIC	Ea	0			4	57.50	230.00	230.00
22	CABLE ROUTE MARKER: Providing and erecting RCC cable route marker as per drawing No. discom/R&D/RM-001 duly marked with "DANGER" mark, "discom POWER CABLE" and arrow of route of cable.	Nos	1771	345.00	610995.00	1771	115.00	2,03,665.00	8,14,660.00
23	DRAWING: Preparing complete drawing of entire network as well as individual feeder map showing joints also in AutoCad and providing the same to UGVCL in AutoCad copy as ell as pdf copy and hard copy in six sets. The drawing should be geographical indicating all directions	Job			0.00	42	57,500.00	24,15,000.00	24,15,000.00
24	Fencing								
24(a)	FENCING: FRP Fencing for RMU and PSS, post shall be made out of FRP Pultruded hollow section of size 50x50x5mm.. and shall be grouted in the ground with c. c. of ratio 1:3:6,. Sub frame provided using hollow FRP section 50x25x5mm or FRP angles 50x50x5 at top and bottom and other accessories for fixing of gates etc. Rails shall be made out of FRP notch bars of 12mm dia, Pickets shall be made of flats of size 35x5mm SMC or FRP as per specifications and Drawing NO: discom/R&D/Fencing/FRP/001	RMT	3708	4012.58	14878646.64	3708	794.82	29,47,201.83	1,78,25,848.47

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