

Schedule B

Schedule 2 Name of Work: Conversion of Overhead Power Distribution System to Underground Cabling Power Distribution System in Port Colony OOT, Vadinar.								
Sr. No	Description of Items		(n)Procure line item no.	Unit	Qty.	Rate	Amount	
1	Excavation and backfilling of the trench							
	i	Excavation and backfilling work by mechanical means (Hydraulic excavator) / manual of Hard and soft soil for installation work of laying of Cables. Quantity as per actual. Size for excavation and backfilling of the trench is as mention bellow. To be executed as per Technical Specification no. 01.		1(a)				
		(a)	Width:1.2 Meter, Depth:0.91 Meter		Meter	440		
		(b)	Width:0.6 Meter, Depth:0.91 Meter	1(b)	Meter	3486		
	ii	Excavation and backfilling work by mechanical means (Hydraulic excavator)/manual through PCC Road crossing / PCC flooring and Brick wall crossing for installation work of laying of Cables. Quantity as per actual. Size for excavation and backfilling of trench is as mention bellow. To be executed as per Technical Specification no. 01.		2 (a)				
		(a)	Width:1.2 Meter, Depth:0.91 Meter		Meter	65		
		(b)	Width:0.6 Meter, Depth:0.91 Meter	2 (b)	Meter	185		
	iii	Excavation and backfilling work by mechanical means (Hydraulic excavator) / manual of Hard and soft soil for installation work of laying of Cables through DWC HDPE pipes having minimum 35 mm Inner Diameter. Quantity as per actual. Size for excavation and backfilling of the trench is as mention bellow. To be executed as per Technical Specification no. 02.		3				
		(a)	Width:0.15 Meter, Depth:0.15 Meter		Meter	2050		
	iv	Excavation and backfilling work by mechanical means (Hydraulic excavator) / manual of PCC Road cutting by road cutter suitable for minimum 35 mm Inner Diameter DWC HDPE pipes		4	Meter	1762		

		for laying of Cables. Quantity as per actual. To be executed as per Technical Specification no. 02.					
2		Supply of DWC HDPE (Double wall corrugated high density polyethylene) pipes of standard length of minimum 35 mm Inner Diameter for 4/3.5 Core 16/35 sqmm XLPE aluminium cable Confirming to IS 14930 part II (amended up to date), including all local & central taxes, transportation and freight charges inspection charges, loading / unloading charges, conveyance to the site of work. Stacking the same in closed shade duly protecting from sunrays, rain & theft or physical damage, etc. Quantity as per actual. To be executed as per Technical Specification no. 02.	5	Meter	8500		
3	Laying of Cables (Cables shall be provided by DPA)						
	i	Cable Laying and Installation of Aluminum conductor, armoured, XLPE insulated, PVC sheathed, 1.1KV cable in Excavated trench and refilling of trench with sand & Cable Tiles as per site requirement with necessary Cable Pulling wiches, Jecks, Rollers and other hardware for laying of cables. Quantity as per actual. Laying to be done as per Technical Specification no. 01. Cables of size as mentioned below:	6(a)				
		(a) 3.5Cx240 Sq.mm cable		Meter	1500		
		(b) 3.5Cx120 Sq.mm cable	6 (b)	Meter	3000		
		(c) 3.5Cx 70 Sq.mm cable	6 (c)	Meter	500		
		(d) 4 Cx 16 Sq.mm cable	6 (d)	Meter	1000		
	ii	XLPE Aluminum Armoured Cable of below mentioned sized to be laid inside DWC HDPE pipes in Excavated trench with necessary Cable Pulling wiches, Jecks, Rollers and other hardware for laying of cables and refilling of trench to be restored in its original position as per site requirement. Quantity as per actual. Laying to be done as per Technical Specification no. 02. Cables of size as mentioned below:	7 (a)				
		(a) 3.5Cx 35 Sq.mm cable		Meter	3500		
		(b) 4 Cx 16 Sq.mm cable	7 (b)	Meter	5000		

4	<p>Supply, Installation, testing and commissioning of Main Distribution Panel consisting of arrangement of 01 no. of 1000 Amp Incomer and 09 nos. of 250 Amp. and 01 no. of 63 Amp Outgoing feeders with indication lamps and Multifunction meters, MCCBs with all necessary protection relays, metering and control systems. As per Technical Specification no. 03</p> <p>(a) Rating of Incomer 1000 Amps 433V 50KA 4P Electrical Draw Out (EDO) Air Circuit breaker(ACB) with microprocessor based release for over current, short circuit and earth fault protection. - PR 121 Qty. 01 Nos. (Make: ABB, L&T, SIEMENS, C&S)</p> <p>(b) 4 pole 1000A Bus Coupler Qty. 01 Nos.</p> <p>(c) Rating of Outgoing MCCB TPN 250 A, 35KA (microprocessor based release O/L with Ics = 100% Icu). Qty. 09 Nos. (Make: ABB, L&T, SIEMENS, C&S)</p> <p>(d) 4 pole 63 Amp. MCB type C Qty. 01 Nos (Make: ABB, L&T, SIEMENS, C&S)</p> <p>(e) MCCB 125 Amps, 415V, 50Hz, 36kA (microprocessor based release O/L with Ics= 100% Icu) with Digital Timer with 50A 3 pole power Contactor set for Street Light Feeder Qty. 01 Nos.</p>	8	Nos.	1	
5	<p>Supply, installation, testing and commissioning of Auxiliary Distribution Panel. Auxiliary Distribution Panel consisting of arrangement of Outgoing feeder with indication lamps and Multifunction meter of MCCBs with all necessary protection relays, metering and control systems. As per Technical Specification no.04</p> <p>(a) Rating of Incomer 800 Amps 433V 50KA 4P Electrical Draw Out (EDO) Air Circuit breaker(ACB) with microprocessor based release for over current, short circuit and earth fault protection. - PR 121 (Make: ABB, L&T, SIEMENS, C&S Qty. 01 Nos.)</p> <p>(b) 4 pole 800A Change Over Switch Qty. 01 Nos.</p> <p>(c) Rating of Outgoing MCCB TPN 250 A, 35KA (microprocessor based release O/L with Ics=100% Icu). Qty. 09 Nos.</p> <p>(d) 4 pole 63 Amp. MCB type C Qty. 01 Nos</p> <p>(e) MCCB 125</p>	9	Nos.	1	

	Amps, 415V, 50Hz, 36kA (microprocessor based release O/L with Ics= 100% Icu) Digital Timer with 50A 3pole power Contactor set for Street Light Feeder Qty. 01 Nos.					
6	Supply, installation, testing and commissioning of Outdoor type feeder pillar panels suitable for AC 440 V, 50 HZ supply, Outdoor panel consisting of arrangement of Outgoing feeder with indication lamps and Multifunction meter. as per Technical Specification no.05 (a) Rating of incomer MCCB TPN 250 A, 35KA (Microprocessor based O/L, Earth fault with Ics = 100% Icu), Qty. 01 Nos. each Feeder Pillar. (b) Outgoing MCCB, 25KA, of 4 Pole 125A rating of 06 nos. each Feeder Pillar. (c) Outgoing MCB, 25KA, of 4 Pole 63A rating of 01 nos. Each Feeder Pillar	10	Nos.	14		
7	Providing & fixing of heat shrink straight through Joint Kit suitable for L.T. 1.1 KV PVC/XLPE armoured cable of following sizes. Quantity as per actual. To be executed as per Technical Specification No.06	11 (a)				
	(a) 3.5Cx240 Sq.mm cable		Each	5		
	(b) 3.5Cx120 Sq.mm cable	11 (b)	Each	10		
	(c) 3.5Cx 70 Sq.mm cable	11 (c)	Each	3		
	(d) 3.5Cx 35 Sq.mm cable	11 (d)	Each	20		
	(e) 4 C x 16 Sq.mm cable	11 (e)	Each	20		
8	Providing and Fixing Chemical earthing as given below. Chemical Earthing using Electrode of size 80 mm dia,3-meter-long connected with 25X3 mm Copper internal strip complete with excavation, civil works, earthing chamber, cast iron cover with back fill compounds as per Outgoing MCB, 25KA, of 4 Pole 63A rating of 01 nos. Each Feeder Pillar. Quantity as per actual. As per Technical Specification no.07	12	Each	32		

9	Supply, Laying & connecting of GI Strips Connecting earth station to the equipment 25x3mm thick. Quantity as per actual. As per Technical Specification no.08	13	Meter	400		
10	Construction of foundation etc. with M20 grade PCC complete with cantering, shuttering and reinforcement as per design, The Foundation of panel as per size of panel, as per Technical Specification no. 09.	14	Nos.	16		
11	Supplying and fixing cable route marker with 100 mm of Disc size with G.I. plate with inscription there on, bolted / welded to 35 mm X 35 mm X 6 mm angle iron, 30 cm long and fixing the same in ground as required at every 50 Mtr or as per direction of site engineer duly engraving with letters "LT Cable" as applicable with an arrow (→) letter showing distance and depth at which cable is buried on a smooth and clean finished surface confirming to IS 5820-2001 with painting of 2 coats of apex over coat of primer with yellow shade and the letters with contrast red shade. LT cable rout markers approved by DPA may be installed as per site requirement.	15	Each	160		
12	Supply and Fixing of SMC Junction Boxes as per Technical Specification No. 10. Quantity as per actual.	16	Nos.	150		
13	Dismantling of existing LT Distribution panel, LT overhead power Distribution lines complete with all associated items like Conductors, insulators, overhead cables, wires, studs, MS structure, LT box, switching box etc. and depositing the same in DPA Main Store including materials handling and shifting. Quantity as per actual. (Dismantling to be carried out only after successful commissioning of Underground Cabling Power Distribution System as per Terms & conditions.)	17	Meter	3300		