

Name of work:			Providing and Erecting LED Street Light On State Highway & Major District Road ( MDR ) of Rajkot District		
SCHEDULE-B					
Item No.	Quantities estimated but may be more or		Item of work	Tendered Rate	Total amount according to estimated
	Qty.	Unit		In Figures	
1	2-A	2-B	3	4	6
1	749	Mtr	Supplying and erecting Flexible PVC insulated multi strand multi core 1.1 kv grade ISI marked copper wires of following size to be erected as directed.(e) 1.50 Sq.mm 3 core round PVC sheathed	46.46	34798.54
2	107	Ea	providing and erecting Miniature circuit breaker single pole 0.5A to 2A system and having breaking capacity 10 KA to be erected in existing box. conforming to IS 8828/1996 with ISI Mark Cat.III	270.68	28962.76
3	3	Ea	Providing & erecting 415V MCB Four Pole Switch for Lighting Load (B curve) having 10KA breaking capacity & confirms to IS -8828 in existing box having following capacity (b)40 Amp. Cat.III	638.32	1914.96
4	10	Kg	Providing and erecting HOT deep Galvanised iron strip wire 8 to 16 SWG.	77.77	777.7
5			Supplying & erecting earth pit of minimum bore dia.150mm size approved make Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 50mm having 80-200 Micron galvanising. Inner pipe dia of 25 mm having 200-250 Micron galvanising. connection terminal dia of 12mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover. (A)(approved make OEM has to submit test certificate including value of earth resistance of installation duly stamped and signed by agency and officer incharge has to ensure the value of earthing resistance mentioned in test Certificate) & having back filling compound of (B) Inner chemical (CCM Compound)- Resistivity:- 0.2 ohm / meter testing as per IEC 62561-2017, Voltage drop:- < 1 volt at no load & dry form, Sulphur content:- <2%(C) Back fill Compound :- Earthing compound should be capable to retain moisture for long time Necessary test report must be submitted by Agency.	0.00	0
	3	Ea	(a) For Electrical Installation up to 440V in normal soil Length of pipe - 1 Mtr Back filling compound - 1 Nos Bag of 15 Kg.	4591.46	13774.38
6	65	Ea	Providing and erecting Pipe type earthing having 150 cms.long and 2.5 cms. dia. galvanised iron pipe with coupling and back buried in specially prepared earth pit complete with necessary 8 SWG earth wire.	368.65	23962.25
7	65	Ea	For using salt and charcoal / coke as required for pipe type earthing.	171.70	11160.5
8	75	Mtr	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (A) 3 1/2 core 25 Sq. mm ( 16 Sq. mm 1/2 core)	183.82	13786.5
9	1680	Mtr	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand / Solid Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (C) 4 core 10 Sq. mm	140.39	235855.2
10	1160	Mtr	Making trench in soft soil of suitable width of 90 cm deep for laying cable or locating the fault all over the run and back filling the same and making the surface as normal ground.	55.55	64438
11	390	Mtr	Making trench in Hard Murrum / Tar Road of suitable width of 90 cm or required depth for laying any size of cable or locating the fault all over the run and back filling the same and making the surface as normal ground.	74.74	29148.6
	110	Mtr	(B) If additional machinery like hammer drillor or JCB use (Add)	357.54	39329.4
12	130	Ea	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables.(C) 2 to 4 core 10 Sq. mm	38.38	4989.4
13	6	Ea	Providing and, fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables.(A) 3 & 1/2 / 4 core 25 Sq. mm	66.66	399.96
14	260	Ea	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (B) 10 Sq. mm	13.13	3413.8
	24	Ea	(C) 16/25 Sq. mm.	15.15	363.6
15	12	Ea	Solder less crimping type Copper lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (C) 16 Sq. mm.	12.12	145.44
16	1700	Mtr	Providing & laying approved make Double walled corrugated pipes (DWC) of polyethylene(conforming to IS 14930 II) with necessary connecting accessories of same material at required depth in existing trench for laying of cable. below ground / road surface for enclosing cable (A)50 mm outer dia	62.62	106454
17	65	Ea	Supplying and erecting approved make Octagonal pole made from HR sheet steel. The pole should be made as per IS, and shall be coated with hot dip galvanizing as per IS 2629/2633/4759, suitable suspend local wind speed with integral Junction box consist of terminal plate of min 6mm Hylam sheet, standard profile 35mmX7.5mm Din-Rail for MCB Mounting, stud type terminal and arrangement for cable termination to be erected With Suitable foundation (Included) as per details given by manufacturer considering site requirement.(E) 7 Mtr. Long 70 mm Top X 135 mm bottom dia. 3 mm thickness with 225mmX225mmX16mm base plate, 4-M20 Bolts and 600mm long with necessary G.I. J Bolts .Approx Pole weight 67 kg	11411.99	741779.35
18	42	Ea	Providing and erecting street light pole bracket comprising main B Class G.I pipe of 4.2 cm/require outside dia. complete with suitable B Class G.I sleeve tubing of approx. 45cms.length and suitable for 76.5 mm / 80mm. / require size pole top having sufficient fasteners for fixing the brackets and having spread of 1 mtr. length with suitable rise as per site condition & suitable welded stiffener reducer and nipple with check nut complete painted with one coat of Red oxide / PU base primer and two coats of Aluminium / PU paint. paint with following nos of arms.[B] Double Arm Bracket 1 Mtr	829.21	34826.82
	23	Ea	[A] Single Arm bracket 1 Mtr	614.08	14123.84
19	3	Ea	Supplying & erecting approved make Digital time switch having lithium cell 6 years operative and operate battery backup 1 channel day clock with 14 memory programme, suitable to operate on 240V + 5%, 16A with, floating contacts Minimum switching setup time 1 minimum & LCD display. Also comprised permanent ON/OFF switching. Programming switches & housed in fire proof thermoplastic enclosure & transparent cover erected as required with necessary connection erected as directed.	3168.37	9505.11
20	3	Ea	Supplying & erecting power contactor ,AC3 duty for time switch complete erected as per direction Cat III (D) 4 pole 440V 40 Amp.	2782.55	8347.65
21			Supplying and erecting LED street light / Flood light fittings with High power White LEDs wattage of 3 Watt and above assembled on single MCPCB, efficiency more than 130 lm/w and corrosion free High pressure die cast aluminium housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses, with toughened glass with company mark/name engraved or embossed 160 to 270 V.Power Factor more than 0.95, THD < 10 %, CCT 3000 K to 5700K.Uniformity ratio >0.45, Luminaire efficacy> 100 lumens/watt. LED driver efficiency > 85 %.( fittings required LM-79 & LM-80 certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.)	0.00	0

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1	2-A	2-B	3	4	6
	107	Ea	(A) Street Light (IP-65). Surge protection -4KV integral and .Light must have 440VAC line supply with over-voltage protection. (iii) Above 60 to 90 watts Cat-III	5976.17	639450.19
22			Supplying & erecting IP 55 grade following size section pillar fabricated from joint less M.S. Sheet with angle iron legs made from jointless M.S. Angle with cable clamps to be buried in ground to have appropriate erection to work uniform until erected with cement concrete foundation and 45 cm high bricks work finishing with plaster etc. hinged double door internally supported on both side, with internal and outside looking arrangement with lock and keys in duplicate 35 x 35 x 5 mm M.S. Angle of Two Nos. one is welded and other with nut and bolt for erecting Bakelite sheet. Painting the Section Pillar inside and out side with three tank powder coated paint. section pillar roof should be without joint with water leakage proof & tested as per IP 55 test & followed by IS 2147 of 1962	0.00	0
	3	Ea	(B) 75 X 60 X 45 cm section pillar fabricated from 16 Gauge MS Sheet with angle iron legs 45 cm long made from 35 X 35 X 5 mm thick MS angle.	3595.60	10786.8
23	9	Ea	Supplying KITKAT pattern porcelain cut-out fuse with base of following current capacity erected on existing block board.(v) 100 A, 500 V.	278.76	2508.84
24	1.2	Sq.mtr	Supplying and erecting HYLAM sheet on existing angle iron frame.for following thickness (C) 6mm	1156.45	1387.74
25	24	Mtr	providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required. (e) One wire 16.00 sq. mm	142.41	3417.84
Total					2079809.17

**Note:- The Credit of dismantled materials for Rs.00.00 shall be recovered from the First R.A. bill payable to the contrator and there after the dismantled materials shall be the property of the contractor.**

I/We am/are willing to carry out the work at \_\_\_\_\_% above/below (in figures) \_\_\_\_\_percent Above / below (in words) the estimated rates mentioned above amount of my/our tender works out as under :-

Estimated amount put to Tender  
Deduct \_\_\_\_\_% below  
Net Amount  
(Rupees in Words)\_\_\_\_\_.

**O R**

Estimated amount put to Tender  
Add \_\_\_\_\_% Above  
Net Amount  
(Rupees in Words)\_\_\_\_\_.

Rs. \_\_\_\_\_  
Rs. \_\_\_\_\_  
Rs. \_\_\_\_\_

Rs. \_\_\_\_\_  
Rs. \_\_\_\_\_  
Rs. \_\_\_\_\_

- A

I/We hereby declare that I/we have visited the site and fully acquainted my self / our selves with the local situation regarding material.labour and other factors pertaining to the work before submitting this tender.
- B

I/We hereby declare that I/we carefully studied the conditions of contract, detailed technical specifications and other tender documents of this work and agree to execute the same accordingly.
- C

Any Excess in Tender Item/Extra Item if Needs to be Execute. Contractors has to carry out work on the instruction of Competant Authority on Tender Submitted rate.No Excuse will be Accepted.Hence Contractor are Requested to quote the rate considering this condition.
- D

Contractor are requested to quote the Tender by considering that payment will be made after availability of grant.Contractar has to start the work immediately after issue of Work Order and as per instruction of Engineer-in-Charge irrespective of availability of grant.
- E

"This estimate has been prepared on the new SOR wich is exclusive of GST hence GST additional will be paid to the agency as per existing guidelines."

(Signature of the Contractor)

**Note** 1 Please strike out whichever is not applicable.  
2 In the case of tendered amount being quoted incorrectly the quoted pered percentage Below/Above will be considered