

## SCHEDULE – A

**NAME OF WORK:- Renovation to Street Light of Approach Road, Ring Road and Cycle Track in Sector-1 at Gandhinagar.**

**FUND HEAD :-** CIVIL JOINT

**PLACE :-**

**T.S. NO :-** Awaiting

ITEM NO.	QTY	PARTICULARS	ISSUE RATE	AMOUNT
1	2	3	4	5
NIL				

**SIGNATURE OF THE CONTRACTOR**

**Deputy Executive Engineer  
S.C.Electrical Sub Division No-3  
Gandhinagar**

**Executive Engineer  
S.C. Electrical Division  
Gandhinagar**

**NAME OF WORK:- Renovation to Street Light of Approach Road, Ring Road and Cycle Track in Sector-1 at Gandhinagar.**

Item No.	Quantity	Unit	Description of Item	Rate	Rate in words	Amount
1	1500.00	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	Rupees Fifty Five & Paise Fifty Five only	83325.00
2	250.00	Mtr.	Making trench in soft soil of suitable width of 30 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.	18.51	Rupees Eighteen & Paise Fifty One only	4627.50
3	50	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	Rupees Seventy Four & Paise Seventy Four only	3737.00
4	100	Mtr.	(B) If additional machinery like hammer driller or JCB use [Add] (354+74=428) (As per requirement)	432.28	Rupees Four Hundred Thirty Two & Paise Twenty Eight only	43228.00
5	400	Mtr.	Drilling the road without breaking the road surface (Asphalt) for laying of cable for feeding power supply by making up to following size of holes at both ends complete.(A) Up to 100 mm bore dia	492.88	Rupees Four Hundred Ninety Two & Paise Eighty Eight only	197152.00
6	100.00	Nos	Replacing old & u/s existing pole with proper land finishing and removing dismental material as per site requirement by 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 (Junction box cover design/mounting) as per site requiremnt and must be connected by metal chain to pole))	11411.99	Rupees Eleven Thousand Four Hundred Eleven & Paise Ninety Nine only	1141199.00

Item No.	Quantity	Unit	Description of Item	Rate	Rate in words	Amount
7			Replacing old & u/s by Providing and erecting street light pole bracket comprising main B Class GI 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.			
	96.00	Nos	[A] Single Arm Bracket 1.5 Mtr	683.77	Rupees Six Hundred Eighty Three & Paise Seventy Seven only	65641.92
	4.00	Nos	[B] Double Arm Bracket 1.5 Mtr	1002.93	Rupees One Thousand Two & Paise Ninety Three only	4011.72
8	104.00	Nos	Replacing old & u/s by 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 aluminum 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.) <b>(Light Fixture design as per site requirement)</b> <b>(Sample shall be provided by the contractor at free of cost. Engineer in-charge reserve the rights to accept/ reject/ select light fixtures based on sampling / Mock-up at actual site without giving any reason)</b> <b>( Manufacturer must have In house NABL lab )</b>			
			(A) Street Light (IP-65), Surge protection -4KV integral and ,Light must have 440VAC line supply with over-voltage protection.(iii) Above 85 to 90 watts Cat III	5976.17	Rupees Five Thousand Nine Hundred Seventy Six & Paise Seventeen only	621521.68

Item No.	Quantity	Unit	Description of Item	Rate	Rate in words	Amount
9			Replacing old & u/s by 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, (Make: Finolex, Polycab, RR Kable, Havells, KEI)			
	4000.00	Mtr.	(A) 4 core 16 Sq. mm	153.52	Rupees One Hundred Fifty Three & Paise Fifty Two only	614080.00
10	800.00	Mtr.	Replacing old & u/s by Supplying and erecting Flexible PVC insulated multistrand multicore 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 (Make: Finolex, Polycab, KEI)	46.46	Rupees Forty Six & Paise Forty Six only	37168.00
11	3200.00	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 for laying of cable. below ground / road surface for enclosing cable and back filling the same to make ground as per original.(A)50 mm dia	62.62	Rupees Sixty Two & Paise Sixty Two only	200384.00
12	12.00	Nos	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. (D) 2 to 4 core 16 Sq. mm	47.47	Rupees Forty Seven & Paise Forty Seven only	569.64
13	840.00	Nos	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. (C) 16/25 Sq.mm.	15.15	Rupees Fifteen & Paise Fifteen only	12726.00
14	100.00	Nos	Providing and erecting Pipe type earthing having 150 cms.long and 2.5 cms. dia. galvanised iron pipe with coupling and buch buried in specially prepared earth pit complete with necessary 8 SWG earth wire.	368.65	Rupees Three Hundred Sixty Eight & Paise Sixty Five only	36865.00
15	100.00	Nos	For using salt and charcoal / coke as required for pipe type earthing.	171.70	Rupees One Hundred Seventy One & Paise Seventy only	17170.00

Item No.	Quantity	Unit	Description of Item	Rate	Rate in words	Amount
16	3.00	Nos	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. Length of pipe - 1 Mtr Back filling compound - 1 Nos Bag of 15 Kg.	4591.46	Rupees Four Thousand Five Hundred Ninety One & Paise Forty Six only	13774.38
17	100.00	Nos	Providing & erecting Medium Voltage Danger Notice Board sticker as per language suggested by engineer incharge of standard size as per IS-2551	26.26	Rupees Twenty Six & Paise Twenty Six only	2626.00
18	100.00	Nos	Replacing old & u/s by 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. confirming to IS 8828/1996 with ISI Mark cat III ( Make : L&T, Siemens, Legrand)	270.68	Rupees Two Hundred Seventy & Paise Sixty Eight only	27068.00
19	3.00	Nos	Providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on 3 phase and neutral 415V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max. rating erected as directed.(iv) 100 Amps. FP (100 mA Sensitivity) Cat. III ( Make : L&T, Siemens, Legrand)	4314.72	Rupees Four Thousand Three Hundred Fourteen & Paise Seventy Two only	12944.16
20	25.00	Kg.	Providing and erecting HOT deep Galvanised iron strip wire 8 to 16 SWG.	77.77	Rupees Seventy Seven & Paise Seventy Seven only	1944.25

Item No.	Quantity	Unit	Description of Item	Rate	Rate in words	Amount
21	100.00	Nos	Painting the number and words for inventory Identification on erected fittings / equipment's or Such accessories as may required with good quality of enamelled paint as directed by engineer in charge. (i) up to 20 characters, up to 50 mm height.	22.22	Rupees Twenty Two & Paise Twenty Two only	2222.00
22	785.00	Mtr.	Removing and rearranging pre-cast Rubber Dye inter locking concrete block (A) Dismantalling tiled or stone floors laid in mortar including stacking of serviceable material & disposal of unserviceable material with all lead and lift.(B) Refixing same pre-cast Rubber Dye inter locking concrete block 60mm thick with grade of concrete M200 pneumatic compressed by mechanically pressed and as per approved design including 75mm Sand layer for levelling and filling the joint with sand in proper line and level as per direction of engineer-in-charge etc complete. Including required Trench upto 30 cm. Depth. Rate for 1 mtr Cable laying. (As per requirement)	108.27	Rupees One Hundred Eight & Paise Twenty Seven only	84991.95
<b>TOTAL =&gt;</b>						<b>3228977.20</b>
<b>Rupees Thirty Two Lac Twenty Eight Thousand Nine Hundred Seventy Seven &amp; Paise Twenty only</b>						

**Signature of  
Contractor**

**Dy.Ex.Engineer  
Sach.Comp.Elect.Sub.3  
Gandhinagar.**

**Executive Engineer  
Sach. Comp.Elect.Division,  
Gandhinagar**

### SCHEDULE- C

**NAME OF WORK:- Renovation to Street Light of Approach Road, Ring Road and Cycle Track in Sector-1 at Gandhinagar.**

I / WE am / are willing to carry out the work .....% above / below percent (Should be written in figures and words) of the

Estimated Amount Put to Tender	Rs. _____	Estimated Amount Put to Tender	Rs. _____
Deduct _____ %	Rs. _____	Add _____ %	Rs. _____
Net Total	Rs. _____	Net Total	Rs. _____
In Words :-		In Words :-	

Please Strike out whichever is not applicable.

**Note 1** : All works shall be carried out as per Public works Department Handbook and other specifications of Division or as directed

**Note 2** : All the columns in Schedule should be filled in ink and the total of the entries in the last column should be struck by the contractor under his signature.

**Note 3** : Rates quoted include clearance of site [prior commencement of work and at close] in all respects and hold good for work under all conditions, site, moisture, weather etc.

**Note 4** : To be continued on additional sheets, if found necessary.

**Note 5** : Dismantle material will be handed over to Agency and Amount will be deducted from Bill.

**SIGNATURE OF THE CONTRACTOR**

**Executive Engineer  
Sach. Comp.Elect.Division,  
Gandhinagar**

**Deputy Executive Engineer  
S.C.Electrical Sub Division No-3  
Gandhinagar**

## Dismantal List

**NAME OF WORK:- Renovation to Street Light of Approach Road, Ring Road and Cycle Track in Sector-1 at Gandhinagar.**

Item No.	Quantity	Unit	Description of Item	Rate	Rate in words	Amount
1	70	Nos	Cost of old & U/S 7.5mtr Street Light pole with all accessories(except fitting, cable & MCB)	692	Rupees Six Hundred Ninety Two only	48440.00
2	15	Nos	Cost of old & U/S 9mtr Street Light pole with all accessories(except fitting, cable & MCB)	804.1	Rupees Eight Hundred Four & Paise Ten only	12061.50
3	87	Nos	Cost of old & U/S LED Light Fitting	127.36	Rupees One Hundred Twenty Seven & Paise Thirty Six only	11080.32
4	700	Mtr	Cost of old & U/S Pole Wire	4.84	Rupees Four & Paise Eighty Four only	3388.00
5	2500	Mtr	Cost of old & U/S Cable with Lugs and Gland	9.66	Rupees Nine & Paise Sixty Six only	24150.00
6	70	Nos	Cost of old & U/S SP MCB	4.9	Rupees Four & Paise Ninety only	343.00
7	70	Nos	Cost of old & U/S Pole base	250	Rupees Two Hundred Fifty only	17500.00
<b>Total Amount</b>						<b>116963.00</b>
<b>Rupees One Lac Sixteen Thousand Nine Hundred Sixty Three only</b>						

Signature of Contractor

Deputy Executive Engineer  
Sachivalaya Comp Elect Sub Dn-3  
Gandhinagar

Executive Engineer  
Sachivalaya Comp Elect Div  
Gandhinagar



Make List		
NAME OF WORK:- Renovation to Street Light of Approach Road, Ring Road and Cycle Track in Sector-1 at Gandhinagar.		
Sr.No.	Item No.	Make
1	9	Finolex, Polycab, RR Kable, Havells, KEI
2	10	Finolex, Polycab, KEI
3	20	L&T, Siemens, Legrand
4	21	L&T, Siemens, Legrand
5	22	L&T, Siemens, Legrand
6	23	L&T, Siemens, Legrand

Signature of Contractor

Dy.Ex.Engineer  
Sach.Comp.Elect.Sub.3  
Gandhinagar.

Executive Engineer  
Sachivalaya Comp.Ele.Disn,  
Gandhinagar