

SCHEDULE-A

Name of Work:	A&A to Street light and Compound Light at Taluka Seva sadan Dhandhuka Ta. Dhandhuka Dist. Ahmedabad
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Schedule showing (approximately) the materials to be supplied from the Public Works Store for work Contracted to be executed and the rates at which they are to be charged for

Particulars	Approximate quantity	Rate a which the materials will be charged the contractor		Place of Delivery
NIL	NIL	NIL	NIL	NIL

Sign of Contractor

**Dy. Executive Engineer
ESI Electrical Sub Division
R & B Deptt. Ahmedabad**

SCHEDULE-B

Name of Work:		A&A to Street light and Compound Light at Taluka Seva sadan Dhandhuka Ta. Dhandhuka Dist. Ahmedabad					
Item No	Qty		Item	Rate in Figure & Word		Unit	Amount
1	112	Mtrs	Replacing old burnt by 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	58.58	Rupees Fifty Eight And Paise Fifty Eight Only	Mtr	6560.96
2	10	Mtrs	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 6.00 sq. mm	70.70	Rupees Seventy And Paise Seventy Only	Mtr	707.00
3	10	Mtrs	Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (a)20 mm	24.24	Rupees Twenty Four And Paise Twenty Four Only	Mtr	242.40
4	7	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) Flood Light (IP-65), Surge protection -4KV integral and ,Light must have 440VAC line supply with over-voltage protection.(v) above 120 to 159 watts Cat-III	7186.15	Rupees Seven Thousand One Hundred Eighty Six And Paise Fifteen Only	Ea	50303.05
5	32	Nos	(A) Street Light (IP-65), Surge protection -4KV integral and ,Light must have 440VAC line supply with over-voltage protection. (i) above 36 to 47 watts Cat-III	2843.15	Rupees Two Thousand Eight Hundred Forty Three And Paise Fifteen Only	Ea	90980.80
6	270	Mtrs	Replacng old faulty cable by 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	168.67	Rupees One Hundred Sixty Eight And Paise Sixty Seven Only	Mtr	45540.90
7	32	Mtrs	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 (B) 4 core 25 Sq. mm	229.27	Rupees Two Hundred Twenty Nine And Paise Twenty Seven Only	Mtr	7336.64

Item No	Qty		Item	Rate in Figure & Word		Unit	Amount
8	25	Mtrs	Replacing old u/s cable 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 (E) 3 1/2 core 95 Sq. mm (50 Sq. mm 1/2 core)	589.84	Rupees Five Hundred Eighty Nine And Paise Eighty Four Only	Mtr	14746.00
9	240	Mtrs	Providing & laying approved make ISI marked HDPE 6Kg / cm2 (Class-3) as per IS:4984:1995 PE-80 to be erected at road crossing on or floor as directed for laying of cable. The pipes as following size of dia & weight per 6 mtr. (A) 40 mm inner Dia.	108.07	Rupees One Hundred Eight And Paise Seven Only	Mtr	25936.80
10	32	Mtrs	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	Rupees Sixty Two And Paise Sixty Two Only	Mtr	2003.84
11	128	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. (B) 10 Sq.mm	13.13	Rupees Thirteen And Paise Thirteen Only	Ea	1680.64
12	8	Nos	(C) 16/25 Sq.mm.	15.15	Rupees Fifteen And Paise Fifteen Only	Ea	121.20
13	2	Nos	(D) 35/50 Sq.mm.	20.20	Rupees Twenty And Paise Twenty Only	Ea	40.40
14	6	Nos	(F) 95 Sq.mm.	40.40	Rupees Forty And Paise Forty Only	Ea	242.40
15	120	Nos	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 And Paise Fifty Five Only	Ea	6666.00
16	90	Mtrs	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 And Paise Seventy Four Only	Mtr	6726.60
17	40	Mtrs	(B) If additional machinery like hammer driller or JCB use [Add]	357.54	Rupees Three Hundred Fifty Seven And Paise Fifty Four Only	Mtr	14301.60
18	32	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.(C) 2 to 4 core 10 Sq. mm	38.38	Rupees Thirty Eight And Paise Thirty Eight Only	Ea	1228.16
19	2	Nos	(E) 2 to 4 core 25 Sq. mm	51.51	Rupees Fifty One And Paise Fifty One Only	Ea	103.02

Item No	Qty		Item	Rate in Figure & Word		Unit	Amount
20	39	Nos	Replacing old burnt 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	297.95	Rupees Two Hundred Ninety Seven And Paise Ninety Five Only	Ea	11620.05
21	2	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 resistane 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, Sulphar 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. (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	Rupees Four Thousand Five Hundred Ninety One And Paise Forty Six Only	Ea	9182.92
22	22	Nos	Replacing old broken by Supplying & erecting approved make SMC press moulded composite FRP. loop-in, loop-out approx. 2mm thick box complete with Bakelite connector strip 5way(3P+N+E),DIN rail for mounting mob & hinged doors as per requirement having locking arrangements with mounting clamp with nuts, bolts & washers suitable for erection on pole with cable clamps& earth bolt of following size of box. (C)150mm x 125mm x 100mm [deep]	476.72	Rupees Four Hundred Seventy Six And Paise Seventy Two Only	Ea	10487.84
23	1	Nos	(K) 700mm x 480mm x 210mm [deep]	6180.19	Rupees Six Thousand One Hundred Eighty And Paise Nineteen Only	Ea	6180.19
24	16	Nos	Providing 1:2:4 cement concrete foundation & 70 % PCC from bottom including excavation for the pole of size 45 x 45 x 100 cm. Deep in below ground level with plinth of 45 cm x 45 cm (or 45 cm dia x 45 cm) high upper ground level with necessary curing and finishing in approved manner. (for 4 & 6 mtr pole)	809.01	Rupees Eight Hundred Nine And Paise One Only	Ea	12944.16
25	1	Sq Mtrs	Supplying and erecting HYLAM sheet on existing angle iron frame.for following thickness (C) 6mm	1156.45	Rupees One Thousand One Hundred Fifty Six And Paise Forty Five Only	Sq Mtr	578.23

Item No	Qty		Item	Rate in Figure & Word		Unit	Amount
26	1	Nos	Replacing old u/s by Supplying & erecting approved make time switch with single pole air break contacts suitable for 230 V.15/16A.complete with self starting motor driven clock 'ON' & 'OFF' automatic arrangement at any predetermined time during each 24 hours,With nickel cadmium rechargeable battery backup erected as directed.	2354.31	Rupees Two Thousand Three Hundred Fifty Four And Paise Thirty One Only	Ea	2354.31
27	1	Nos	Replacing old u/s by Supplying & erecting power contactor ,AC3 duty for time switch complete erected as per direction Cat III (D) 4 pole 440V 40 Amp.	2782.55	Rupees Two Thousand Seven Hundred Eighty Two And Paise Fifty Five Only	Ea	2782.55
28	1	Nos	Supplying & erecting approved make IP 55 grade Company fabricated Timer Panel of following capacity for switch On-Off street lights on time scheduling basis made from 16G CRCA sheet duly epoxy power painted inside and outside with hinged doors and locking arrangement consisting of suitable size of 4 Pole MCB and 4 pole contactor (cat-III)with analog time switch, auto manual switch of same make and suitable input and output Bakelite terminals and with door earthing approved by Engineer in charge. (A) 32 Amp	12399.77	Rupees Twelve Thousand Three Hundred Ninety Nine And Paise Seventy Seven Only	Ea	12399.77
29	16	Nos	Painting of street light pole with bracket complete with two coats of Aluminium paint for following size of pole. (B) up to 6 mt	265.63	Rupees Two Hundred Sixty Five And Paise Sixty Three Only	Ea	4250.08
30	16	Nos	Replacing old u/s by Supplying 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 76.5mm/80mm/require size of pole top having nuts and bolts for fixing the brackets and having spread of 0.5 mtr. Length with 110 deg.with vertical plane and 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 0.5 Mtr	622.16	Rupees Six Hundred Twenty Two And Paise Sixteen Only	Ea	9954.56
31	17	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 And Paise Twenty Two Only	Ea	377.74
32	1	Nos	Providing and erecting Pipe type earthing with 40 mm dia 2.5 mtr long 'B' grade G.I. pipe with necessary coupling buch buried in specially prepared earth pit & G.I. earth wire of 8 SWG erected & connected as directed (For panel)	823.15	Rupees Eight Hundred Twenty Three And Paise Fifteen Only	Ea	823.15
33	1	Nos	For using salt and charcoal / coke as required for pipe type earthing.	171.70	Rupees One Hundred Seventy One And Paise Seventy Only	Ea	171.70
34	9	Kgs	Providing and erecting required size HOT deep Galvanised iron strip for earthing of H.T. , OCB/ ACB/ Transformer LT panel board, Motors etc. using proper clamp.	77.77	Rupees Seventy Seven And Paise Seventy Seven Only	Ea	699.93

Item No	Qty		Item	Rate in Figure & Word		Unit	Amount
35	3	Nos	Replacing old damaged by Supplying KITKAT pattern porcelain cut-out fuse with base of following current capacity erected on existing block board.(vi) 200 A. 500 V.	420.16	Rupees Four Hundred Twenty And Paise Sixteen Only	Ea	1260.48
36	1	Nos	Neutral Link for (ii) 200 / 250 / 320 / 400 / 630 / 800 Amps	274.72	Rupees Two Hundred Seventy Four And Paise Seventy Two Only	Ea	274.72
37	2	Nos	Replacing old u/s by Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 25 KA. at 415 V, having normal current rating up to 25 A to 100A. with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III (with Enclosure)	7469.25	Rupees Seven Thousand Four Hundred Sixty Nine And Paise Twenty Five Only	Ea	14938.51
38	1	Nos	Replacing old u/s by Supplying & erecting approved make Four Pole 415V change over switch interior for panel mounting with operating mechanism A.C.23 duty confirming to IS for (D)200A Cat-III	12241.20	Rupees Twelve Thousand Two Hundred Forty One And Paise Twenty Only	Ea	12241.20
39	3	Nos	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (b)40 Amp. Cat-III	736.29	Rupees Seven Hundred Thirty Six And Paise Twenty Nine Only	Ea	2208.87
40	45	Kgs	Providing , erecting , fabricating the M.S. structure as per requirement on site incorporating proper size of M.S. angles,square,round, flats, bars, channels, sections complete with cutting, welding, grinding & finishing duly painted with one coat of red oxide with erection on site as per direction of engineer in charge with necessary grouting, cementing, plastering & finishing complete.	77.77	Rupees Seventy Seven And Paise Seventy Seven Only	Kg.	3499.65
41	1	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. (ii) 40Amps. FP Cat-III	2900.72	Rupees Two Thousand Nine Hundred And Paise Seventy Two Only	Ea	2900.72
Total Rs :-							₹ 397,599.73
Rupees Three Lakh(s) Ninety Seven Thousand Five Hundred Ninety Nine And Paise Seventy Three Only							

Sign of Contractor

Dy. Executive Engineer
ESI Electrical Sub Division
R & B Deptt. Ahmedabad

SCHEDULE-C**DM**

<u>Name of Work:</u>			A&A to Street light and Compound Light at Taluka Seva sadan Dhandhuka Ta. Dhandhuka Dist. Ahmedabad				
Item No	Qty		DM Item	Rate in Figure & Word		Unit	Amount
1	Mtrs	12	Cost of old Burnt Wire	6.05	Rupees Six And Paise Five Only	Mtr	72.6
2	Nos	5	Cost of old Flood Light	238.84	Rupees Two Hundred Thirty Eight And Paise Eighty Four Only	Ea	1194.2
3	Nos	28	Cost of old Street Light	108.24	Rupees One Hundred Eight And Paise Twenty Four Only	Ea	3030.72
4	Mtrs	155	Cost of old Cable	9.31	Rupees Nine And Paise Thirty One Only	Mtr	1443.05
5	Nos	16	Cost of Old SPMCB	5.4	Rupees Five And Paise Forty Only	Ea	86.4
6	Nos	12	Cost of old CNC Box	77.6	Rupees Seventy Seven And Paise Sixty Only	Ea	931.2
7	Nos	1	Cost of old Contactor	136.45	Rupees One Hundred Thirty Six And Paise Forty Five Only	Ea	136.45
8	Nos	1	Cost of Old Timer	114	Rupees One Hundred Fourteen Only	Ea	114
9	Nos	16	Cost of old Bracket	51.3	Rupees Fifty One And Paise Thirty Only	Ea	820.8
10	Nos	3	Cost of old Fuse	18.65	Rupees Eighteen And Paise Sixty Five Only	Ea	55.95
11	Nos	1	Cost of old MCCB	329.1	Rupees Three Hundred Twenty Nine And Paise Ten Only	Ea	329.1
12	Nos	1	Cost of old Change over switch	599.2	Rupees Five Hundred Ninety Nine And Paise Twenty Only	Ea	599.2

Item No	Qty		DM Item	Rate in Figure & Word		Unit	Amount
13	Mtrs	25	Cost of old Cable 50 sq mm	21.98	Rupees Twenty One And Paise Ninety Eight Only	Mtr	549.5
Total DM Rs :-							₹ 9,363.17
DM in words							
Rupees Nine Thousand Three Hundred Sixty Three And Paise Seventeen Only							

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