

GUJARAT STATE POLICE HOUSING CORPORATION LIMITED, RAJKOT

Name of Work : -SR Work of Door and window repairing, replacement of flooring, concertina coil over compound wall at halvad police line and door & window repairing, china mosaic at old police station and concertina coil over compound wall at New police station at Halvad (Including Electrification Work) DIST:-MORBI(Revise).

Schedule-B

Statement showing the approximate quantities for the items of the above work to be carried out and						
Cost put to Tender for Rs.			3109954.15			
Item No.	Description of Item	Total Quantity	Unit	Quated Rate in		Total Amount Rs.
				Rate Rs.	In Words	
[1]	[2]	[3]	[4]	[5]	[6]	[7]
(A) CIVIL WORK:						
1	Excavation for foundation upto 1.5 M. depth including sorting out and stacking of useful materials and disposing of the excavated stuff upto any lead & Lift. [A] Loose or Soft Soil	25.00	Cum	121.72	Rupees One Hundred Twenty One and Paisa Seventy Two Only	3043.00
2	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto any lead & Lift. (B) Dense or Hard soil	36.00	Cum	155.77	Rupees One Hundred Fifty Five and Paisa Seventy Seven Only	5607.72
3	Providing and laying Cement Concrete 1:4:8 (1cement : 4-coarse sand:8 M/C stone aggregates of 40 mm nominal size) curing complete,excluding cost of formwork in Foundation & Plinth.	4.00	Cum	2742.27	Rupees Two Thousand Seven Hundred Fourty Two and Paisa Twenty Seven Only	10969.08
4	Providing 15mm. thick cement plaster in single coat on ceiling for interior plastering and finished even and smooth in C:M 1:4 (1 cement; 4 sand) including finishing with a floating coat of neat cement slurry AT GROUND FLOOR.	82.00	SQM	209.72	Rupees Two Hundred Nine and Paisa Seventy Two Only	17197.04
5	Providing and laying controlled cement concrete M - 200 and finishing smooth with curing etc complete Including the Cost Of Form Work Of Plywood Only With Fair Finish And Proping Must Be Of Steel Only So As To Give A Fair Finish but excluding cost of reinforcement and Rate also inclusive of providing & mixing of plasticizer as per approved make in propotion as per mix design for R.C.C. work in in COPING	3.00	Cum	6072.44	Rupees Six Thousand Seventy Two and Paisa Fourty Four Only	18217.32
6	Providing & laying TMT Steel Fe 500 reinforcement for RCC work including cutting, bending, binding & placing in position etc. complete for all floors. TMT steel reinforcement shall be as per approved make list of GSPHCL	278.00	kg	76.52	Rupees Seventy Six and Paisa Fifty Two Only	21272.56
7	Removing and Refixing after proper Repairing the Shutters of doors, windows, Cupboards, Ventilators with providing necessary wood corner M.S. plate supports, Hinges etc. complete.	217.00	SQM	321.78	Rupees Three Hundred Twenty One and Paisa Seventy Eight Only	69826.26
8	Providing and fixing U.PVC/SWR Multi nahni trap of the following nominal dia self cleaning design with top tile and strainer including cost of cutting and making good the wall and floors 100mm inlet and 50mm outlet including 150mm x 150mm stainless steel jali.	52.00	Nos.	508.29	Rupees Five Hundred Eight and Paisa Twenty Nine Only	26431.08

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9	BRICK WORK using common burnt clay building brick having cruching strength not less than 35 kg/sq.cm.in foundation and plinth in cement mortar 1:6 brick with frog only shall be used.	19.00	Cum	4172.6	Rupees Four Thousand One Hundred Seventy Two and Paisa Sixty Only	79279.40
10	Providing & Laying Double Charge vitrified 8 to 10 mm thick tile flooring over 20 mm (average) base of cement mortar 1:6 (1 cement: 6 coarse sand) on new surface jointed with color cement slurry including finished with flush pointing & cleaning the surface etc. complete. Brand of the tiles shall be as per approved make list of GSPHCL. Shade & Size of tiles shall be as specified in tender item.	259.00	SQM	1724	Rupees One Thousand Seven Hundred Twenty Four Only	446516.00
11	Providing & laying Printed / Coloured Ceramic GLAZED TILES 8 mm thick in skirting, risers of steps and DADO on 10mm thick cement plaster 1: 3 (1 cement : 3 coarse sand) & jointed with white cement slurry.	52.00	SQM	1473.5	Rupees One Thousand Four Hundred Seventy Three and Paisa Fifty Only	76622.00
12	Providing,fabricating and fixing of M.S. grill/Gate of approved pattern fabricated from M.S.flat , square bars, round bars,C-channel, box pipe as per detail Drawings.Rate is inclusive of welding with grinding smooth surface ,two coat of Oil paint and one coat of yellow Zink chromate primer coat of approved brand only.Oil paint shall be Luxol Enamel paint of Berger Paint India Ltd. or Asian paint Apcolite premium gloss Enamel of Asian paint or Dulux premium gloss enamel of Dulux paint Only M.S. grill/Gate material Structural steel should be ISI Mark only.	2160.00	kg	75.1	Rupees Seventy Five and Paisa Ten Only	162216.00
13	Providing and fixing solid PVC Flush Door shutter 24mm thick. made from Co-extruded three layer rigid PVC foam sheet(single Extruded) with density not less than 600kg/cbm outer layer (0.8-1mm)thick should be rigid PVC with density of not less than 1400kg/cbm. Door should be water proof, Termite proof, fire retardant & having good screw holding capacity(200 kgf). Providing and fixing 100% Solid Wood Plastic composite (WPC) Door Frame 90mmx45mm made from wood plastic composite(single Extruded Process)material with density 780kg/cbm. As per drawing as directed by the engineer in charge.	19.00	SQM	4501.96	Rupees Four Thousand Five Hundred One and Paisa Ninety Six Only	85537.24
14	Providing and fixing standard extruded of alluminium section of size 63.50 mm x 38.10mm x 1.01mm (Jindal section :20033,@ Wt.0.593kg/Mt) with colour anodized alluminium frame for ventilation with 5 mm thick frosted glass as fetails etc complete for ventilation.	3.00	SQM	1163.92	Rupees One Thousand One Hundred Sixty Three and Paisa Ninety Two Only	3491.76
15	Providing and fixing 4mm thick bajari glass bended in putty /wooden bedding patti with scrapping of existing putty and glass in existing windows as directed by Engineer in charge.	73.00	SQM	671.01	Rupees Six Hundred Seventy One and Paisa One Only	48983.73

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16	Providing and laying Integrated cement based proprietary water proofing treatment of required thickness over the roof incl.10mm thick waterproofing cement plaster in cement mortar 1:3 and china mosaic fitting and finally finishing the surface with white cement slurry and sloping out terrace slab with following specification laid to required slope not flatter that 1:80 (the thickness of water proofing treatment near rainwater outlet or the lowest point of the finished slop shall not be less than 45mm incl. treating the vertical surface of the parapet wall unto 20 cms. height above finished level of terracing incl. finishing the top with joint less water proofing plaster, curing testing etc. complete.) Rate is including ten years performance of guarantee bond to be given on stamp paper. (Nos. extra shall be paid for increase in thickness for proper slope.)	376.00	SQM	810.94	Rupees Eight Hundred Ten and Paisa Ninety Four Only	304913.44
	a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with proprietary water proofing compound conforming to IS-2645 and 10mm thick water proofing cement plaster in Cement mortar 1:3 over the R.C.C slab including cleaning the surface before treatments.					
	b) Laying cement concrete using broken brick bats 25 mm to 40 mm size with 50% of cement mortar 1:4(1 cement : 4 coarse sand) over 10mm thick water proofing cement mortar 1:3 (1 cement : 3 coarse sand) admixed with proprietary water proofing compound conforming to IS -2645 to required slope and treating similarly the adjoining walls upto 200mm height including rounding of junction of walls.					
	(c) After two day of proper curing applying a second coat of cement slurry.					
	(d) Finishing the surface with china mosaic pieces laid on 10mm thick joint less cement plaster of mix 1:3 (1 cement : 3 coarse sand) admixed with proprietary water proofing compound conforming to IS-2645 and finally finishing the surface with trowel with neat slurry.					
	(e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing for final test all above operation to be done in order and as directed and specified by the Engineer in charge.					
	All above operation to be done in order and as directed and specified by the Engineer In Charge.					
17	Providing and laying Cement Concrete 1:2:4 (1cement : 2-coarse sand:4 M/C stone aggregates of 20 mm nominal size) curing complete,excluding cost of formwork in Foundation & Plinth.	6.00	Cum	3747.27	Rupees Three Thousand Seven Hundred Forty Seven and Paisa Twenty Seven Only	22483.62

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18	Providing & Fixing 600mm dia. loop hot dip galvenised iron concertina coil made out of 2.5mm dia wire 22mm long razor sharp barbs at 35mm center fitted on 40mm x 40mm x 5mm M.S. Angle post of required shape & size at 3.00 mt. center distance. concertina coil shall be fixed on M.S. Angle stand with the help of 4 Nos. RBT wire M.S. Angle stand shall be fixed on top of Compound wall with 0.20mt x 0.31mt x 0.40mt. deep block in controlled cement concrete M-250. Rate is including of applying one coat of primer and three coats oil painting on M.S. Angle stand shall be made as per the drawing supplied or as directed by engineer in charge.	655.00	Rmt	507.05	Rupees Five Hundred Seven and Paisa Five Only	332117.75
19	Providing and laying Double Charge vitrified tiles 8mm to 10 mm thick in skirting , risers of steps and dado on 10 mm thick cement plaster 1:3 (1Cement : 3 Coarse Sand) & jointed with color cement slurry including finished with flush pointing & cleaning the surface etc. complete. Brand of the tiles shall be as per approved make list of GSPHCL. Shade & Size of tiles shall be as specified in tender item.	36.00	SQM	1445.2	Rupees One Thousand Four Hundred Fourty Five and Paisa Twenty Only	52027.20
20	Finishing wall with Weather proof exterior emulsion paint on wall surface (Two Coat) over and above applying one coat of primer to give an required shape even shade after throughly Brushing This surface to remove all Dirt and remains of loose powder material etc. complete. Primer shall be exterior weather coat and Paint shall be Appex Weather Emulsion Only Paint and primer shall be as per approved make list of GSPHCL	167.00	SQM	153.35	Rupees One Hundred Fifty Three and Paisa Thirty Five Only	25609.45
		Total Amount Of Civil Work Rs....(A) =				1812361.65
21A	Providing and erecting Point wiring with approved 1.1 KV Grade ISI mark 2X 1.5 mm ² copper FRLS PVC insulated wire with 1.5 mm ² copper FRLS PVC insulated wire for earth continuity in 25/32 white approved make press fit casing capping with double locking arrangement with grooves, trunking of size not below 10/12 mm erected flushed on wall/ceiling complete in height IS:14927 ISI Part -II and with approved make white accessories like inside and outside coupler, elbow, tee, junction boxes etc. Also not below 1.8 mm thick duly sealed at joint and 6 A. Modular type switch / bell push & accessories and earth continuity of following type, erected on / Acrylic box, single mounting base frame covered with textured / metallic / white front plate modules erected / flushed on wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector (Make & Model approved by EIC and matching colour with switch and accessories)) as directed.(Conductor resistance should be as per IS:8130/1984) For Opend 600 mm long hot deep galvanize	47.00	Point	382.00	Rupees Three Hundred Eighty Two Only	17954.00
	[Length of point wiring must not increase than 10 mtr. For that necessary switch board and their location must be finalised before execution by agency otherwise payment will not be done for extra long point. For future extention, if required, agency has to erect one higher size box as per instruction of EIC & Wire must be having box packing]. For Light point Cat-II					

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21B	For Bell Point Cat-II	4.00	Point	382.00	Rupees Three Hundred Eighty Two Only	1528.00
21C	For Fan Point 6A Modular type switch and hum free EME step type electronic fan regulator Cat-II	14.00	Point	568.00	Rupees Five Hundred Sixty Eight Only	7952.00
21D	For separate Point (with 6 Amp. Switch & 3/5 pin socket) Cat-II	10.00	Point	410.00	Rupees Four Hundred Ten Only	4100.00
21E	For Looped on switch board (with 6 Amp. Switch & 3/5 pin socket) Cat-II	60.00	Point	234.00	Rupees Two Hundred Thirty Four Only	14040.00
22A	Supplying & erecting UPVC Mini trunking (PVC Casing-n-Caping) having double-locking arrangement with grooves, trunking of size not below 12.5 mm in height as per IS with accessories of PVC/Resin polypropylene not below 1.8 mm thick duly sealed in joint & erected on wall / ceiling of following size. For 25 mm	60.00	Mtr.	31.00	Rupees Thirty One Only	1860.00
22B	For 32 mm	10.00	Mtr.	36.00	Rupees Thirty Six Only	360.00
23	Providing and erecting Medium Class FIA approved and ISI mark white colour (embossed) RIGID PVC PIPES of following size complete erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & clamps on / in wall / ceiling along with continuous fish wire to draw mains with necessary fittings and junction boxes for following dia. (a) 20 mm. dia.	180.00	Mtr.	24.00	Rupees Twenty Four Only	4320.00
24A	Providing and laying Mains with FRLS PVC Insulated wire ISI marked 1.1 KV grade in 25/32 white approved make press fit casing capping with double locking arrangement with grooves, trunking of size not below 10/12 mm in height IS : 14927 ISI Part -II and with approved make white accessories like inside and outside coupler, elbow, tee, junction boxes etc. Also not below 1.8 mm thick duly sealed at joint with FRLS PVC insulated wire for earth continuity. (Approved ISI make only) [a] 2 x 1.5 sq.mm. FRLS copper multi stranded conductor mains with 1.5 sq.mm. FRLS copper multi stranded conductor for earthing as per standard colour code. (Conductor resistance should be as per IS:8130/1984)	235.00	Mtr.	56.00	Rupees Fifty Six Only	13160.00
24B	2 x 6.0 sq.mm. FRLS copper multi stranded conductor mains with 2.5 sq.mm. FRLS copper multi stranded conductor for earthing as per standard colour code. (with 25 mm dia. PVC pipe) (Conductor resistance should be as per IS:8130/1984)	90.00	Mtr.	135.00	Rupees One Hundred Thirty Five Only	12150.00
25	Providing & fixing 20 mm. dia. PVC insulated G.I. Corrugated Flexible pipe with necessary socket, PVC bushes saddle, Check-nuts etc. complete of following sizes.	50.00	Mtr.	30.95	Rupees Thirty and Paisa Ninety Five Only	1547.50

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26	Providing and erecting Plug Point wiring with approved ISI make 2 x 2.5 sq.mm copper PVC insulated FRLS wire with 1.5 sq.mm (green) copper PVC insulated FRLS wire for earth continuity in 25/32 white approved make press fit casing capping with double locking arrangement with grooves, trunking of size not below 10/12 mm in height IS:14927 ISI Part -II and with approved make white accessories like inside and outside coupler, elbow, tee, junction boxes etc. Also not below 1.8 mm thick duly sealed at joint with FRLS PVC insulated wire for earth continuity with 16 Amp. ISI marked flush type modular switch / Socket and accessories erected on PVC / Acrylic box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. For open wiring [a] 16 A.Indicator switch & 1 No. 6/16 A. universal socket combined white colour suitable for 3 pin top duly.	8.00	Point	588.00	Rupees Five Hundred Eighty Eight Only	4704.00
27	Providing & Erecting 2.0 mtr long Earthing system by making minimum bore of 225 mm dia in soft soil. Suitable for doing pipe-in-pipe technology earthing.Earthing electric rod must be made from Corrosion free Hot dip galvanizing pipes having following specification. (A) Earthing Electrode: outerpipes:- 88 mm minimum O.D., ISI 'B' Class ISI mark of Reputed Brand, Inner pipe:- 42 mm minimum O.D., Pipe B Class ISI mark reputed Brand Terminal Size: 70mm X 100mm length, Terminal Should be made from inner pipe for that pipe must be pressed and gave rectangular shape so its work as a terminal.The hot deep galvanising must be done after above process.Galvanised thickness must be minimum 75 micron any where. SS Nut bolt:- 2 no.with washer suitable for 14mm dia. hole must be provided at terminal. total minimum Weight(approx.) of earth electrode with inside conductive material minimum should be 26 kg. (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 Back Filling Compound weight is 25 Kg. (D) Chamber and cover:- Earthing chamber should be size of 400 mm X 400 mm X 400 mm depth and Cover should be heavy duty cast iron with required size of 300 mm X 300 mm X 4 mm thick.	4.00	Each	7025.00	Rupees Seven Thousand Twenty Five Only	28100.00

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	<p>Necessary test report must be submitted.</p> <p>1. Short circuit test by ERDA/ CPRI for 25KA</p> <p>2. Resistivity test of conducting material from NABL accredited lab.</p> <p>3. Hot dip galvanised / zinc coating micro test from reputed laboratory.</p> <p>4. General test report from OEM regarding specification of earthing.</p> <p>[Make and model approved by EIC Strictly subject to item specification only] [OEM has to submit all detail & sample for approved before supplying]</p> <p>[Water must be poured in bore before starting earthing. Earthing value must be measured with earth tester. Agency has to bring the earth resistance to at least 02 ohms & voltage between neutral & Earthing upto 02 volt. Agency has to maintain earthing & its value for one year. Earthing must be done in the presence of A.E. (GSPHCL)]</p>					
28	For Above earthing additional charges for boring in hard rock soil (by breaker) & filling soft soil in earth pit (certificate for soil have to given by DEE / AE along with photographs)	4.00	Each	276.00	Rupees Two Hundred Seventy Six Only	1104.00
29	Providing and erecting Polycarbonet body surface mounting LED Bulk head type 9 watt Lighting Fitting with electronic driver having THD < 15%, CRI>80, P.F.0.95 And lumen output from luminaire 720 lm, input voltage range 90-300 V AC, 50 Hz cool white (3000 to 6500 k), inbuilt driver having efficiency >=80lm/w, -20 deg C to + 60 deg C working temperature, AL frame with Beam Angle 120 deg.	7.00	Each	780.00	Rupees Seven Hundred Eighty Only	5460.00
30	<p>Supplying & erecting LED indoor fitting of approximately 4 feet long with LED of wattage 0.2W to 0.5W assemble on single MCPCB with housing use as a heat sink shall be made from Aluminum exttusion having enough strength (Sample must be approved by EIC) With Polycarbonate diffuser With Following Specification</p> <p>(1) Company Mark/Name on the Fitting</p> <p>(2) Rated input voltage and frequency 220V to 2240 VAC,50Hz</p> <p>(3) Rated input wattage max 24 W</p> <p>(4) Rated input current ; 0.2 Amp.</p> <p>(5) Power Factor : Min.0.90</p> <p>(6) ATHD : Max. 15%</p> <p>(7) Rated Luminous flux : Min. 2420 lm</p>	81.00	Each	370.00	Rupees Three Hundred Seventy Only	29970.00

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	(8) CCT : 6500 K (9) CRI : Min/ 80 Ra (10) Driver Efficiency : min. 80% (11) LED life span : Min. 50000 Hrs @ L70 (12) Over Voltage Protection : Withstand up to 440 V/AC for 4 Hrs. (13) Surge Protection : Min.2 KV (14) IP rating : IP 20 (15) IK rating : IK 02 (16) Short circuit, Open Circuit & Reverse Polarity must be provided (17) Fixing clamp design & strength should be sufficient to hold the fitting erected on wall or ceiling. (18) 3 core copper wire of appropriate size with earthing connector (Note:-The manufacturer/ authorized Channel partner of the manufacturer has to submit 5 yrs free replacement Guarantee for complete Fixture) Approval will be given strictly subject to item specification.					
31	Supplying and erecting 8 W LED lamps with following wattage capacity of 220 to 240 voltage, minimum 15000 burning hours life, 500 V in built-surge protection,Polycarbonate diffuser, mounting suitable for E14 / E27 / B22 lamp holders, pf >= 0.5 (A) LED Lamps integral type, with PC diffuser suitable LAMP holder	6.00	Each	111.00	Rupees One Hundred Eleven Only	666.00
32	Providing, erecting, testing Ceiling Fan confirming to IS: 374/1979 AMDT No. 1 to 6 Class-I, 50 Hz. Specification of Ceiling Fan must be as per below. (1) Sweep: 1200 mm, (2) Operating Voltage: 180 to 230 V, (3) Power Factor: > 0.9, (4) Power Consumption: maximum 53W, (5) RPM: minimum 330, (6) Service value:min 4.3 m3/min. (7) Class of insulation: 'B', (8) No. of heavy duty premium quality Ball bearing: Two, (9) Total Body: Top & Bottom should be alluminium, (10) Blade: Aluminium approx 1.1 mm thick, (11) Colour: White high grade powder coating, (12) Canopy: Two Nos. Heavy duty, (13) Condenser: min 1.5 MFD (15% Tolerance)as per is 1709-1984, Aluminium body premium quality, Branded make,(14) Down road: up to 1.0 mtr as per site requirment, (15) Required fixing accessories, (16) 3 core 0.75 sq.mm ISI wire as per site requirment, (17) No vibration and noise due to mechanical parts. (Agency has to erect safey wire with ceiling fan and checked with EIC) (OEM has to approved model as per tender specification annd 600 mm long hot deep galvanized J-Bolt, nuts, washers with 800 mm under ground and 200 mm above ground level and Foundation in 1:2:4 proportion as per details given by manufact	14.00	Each	1929.00	Rupees One Thousand Nine Hundred Twenty Nine Only	27006.00

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33	Providing & erecting Fan clamp of 30x5 mm flat of required length & 10 mm M.S. Bolt & Nuts erected with necessary hook of 10 mm M.S. Round Bar.	14.00	Each	98.00	Rupees Ninety Eight Only	1372.00
34	Supplying & erecting 19/20 mm. nominal bore "B" class G.I. pipe / M.S. pipe down rod erected duly painted for fan complete with necessary 24/0.2 flat 3 core flexible Core with earthing. The down rod thickness, hole, locking arrangement, construction, powder coating, colour shed should be same as original down rod brought with ceiling fan. For that agency has to give original down rod sample to fabricator and one sample down rod should be approved with EIC. After approval given by EIC agency can use the down rod as per approved sample. If without approval down rod will be erect on site, agency has to replace them with own cost.	10.00	Mtr.	107.00	Rupees One Hundred Seven Only	1070.00
35	Providing ad erecting approved make single phase Double Door metal clad D.B. as per relevant indian standards ammended upto date. Supplying and fixing following way single phase MCB distrubution board of company fabricated sheet box with powder coated inside and outside after apply seven tank chemical process of CRCA sheet cover complete with suitable integral single piece construction tinned copper busbar and link with all necessary interconnection and with necessary size MS frame for mounting MCBDB. MCBDB Door, Back side and Body of MCBDB must be made of 1.2 mm thick CRCA Sheet. Manufacturer must be provided (1) IP 43 and as per IS:8623-1 & 3, IEC 61439-1 & 3 having D type PU gasket. (2) Seven tank Powder coating Certificate (3) Tinned Copper/Brass make neutral & Earthing link with isolation & Protecting Cover for 240 Volts on surface / recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, with suitable size FRLS PVC insulated copper conductor up to terminal blocnd 600 mm long hot deep galvanized J-Bolt, nuts, washers with 800 mm under ground and 200 mm above ground level and Foundation in 1:2:4 proportion as per details given by manufacturer and EIC considerin	2.00	Each	1912.00	Rupees One Thousand Nine Hundred Twelve Only	3824.00
	Single phase incoming and horizontal single phase outgoing. For 8 Way MCBDB: Including 1 no. MCB 40 Amp. double pole switch (C curve confirms to IS:8828 having breaking capacity of 10 KA) and S.P. MCB of rating 6 to 32 Amp. with NL suitable to operate on 240 Volt A.C. power. (6 Amp to 25 Amp: 4 Nos.) (The DBs should be used of same company of MCB / ELCB to be used) (MCBDB must be erected in line & level with spirit level and finish the external edge with box cutting plaster) (Same colour MCB(SP/DP) should be used as same as MCBDB) [Including Necessary numbering / marking on box done with red colour radium sticker as per site requirement and instructions given by EIC on site. Font / number size given by EIC on site as per requirement]					

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36	Providing and Erecting Approved make ISI mark ELCB confirming to IS:12640/1988 having serial number printed on it and having sensitivity of 30 mA and breaking capacity of 10 KA and suitable for 240 V, 50 Hz having characteristic of quick acting & Tripping with all advance feature & do not incorporate any electronic component (mounted in MCBDB) Suitable for operation on single phase 240 Volt max rating of (i) For 40 Amp. DP.	15.00	Each	2213.00	Rupees Two Thousand Two Hundred Thirteen Only	33195.00
37	Providing & erecting 240 V MCB Double pole switch for Motor & Inductive (C curve) having 10 KA breaking capacity & confirms to IS:8828 with same company metal box with earthing terminal having following capacity with necessary numbering / marking with oil Paint by painter. For 40 Amp.	8.00	Each	599.00	Rupees Five Hundred Ninety Nine Only	4792.00
38	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS:8828 same company metal box with earthing terminal having following capacity with necessary Numbering/markings with oil Paint by painter. [c] 63 Amp.	3.00	Each	1172.00	Rupees One Thousand One Hundred Seventy Two Only	3516.00
39	Supplying & fixing box for housing RCCB + MCB combination made of 18 SWG sheet steel duly powder coated with gasket, dust & vermin proof bakelite shield two earthing terminals for following type of RCCB, RCCB + MCB [a] For 2 pole [Same company metal box used as MCB / ELCB used with earthing terminal with necessary Numbering / marking with oil Paint by painter]	3.00	Each	272.00	Rupees Two Hundred Seventy Two Only	816.00
40	Providing and erecting busbar chamber confirming to IS-375 fabricated from 16 GMS sheet dust & vermin proof having hinged door with rubber gasket and necessary busbar supports with copper busbar having current density not more than 1.6 amp/sqmm (Rated current per Cross Section area) duly wired with colour insulating tape for phase sequence, three phase & neutral Each equal & one meter long suitable for following current capacity with necessary painting mounted on wall or pedestal frame of required size with necessary incoming and outgoing connections with proper size of copper strip/wire with lugs as directed. Suitable for 100 Amp. capacity [make and model approved by EIC strictly as per tender specification]	0.50	Rn. Mtr.	4378.00	Rupees Four Thousand Three Hundred Seventy Eight Only	2189.00
41	Supplying & erecting 12 mm thick bakelite sheet of approved make and grade on existing min. 25 x 25 x 3 mm red oxide painted angle iron frame suitable for fixing ICDP SWITCH and energy meter (contractor shall make approved drawing of Bakelite sheet To arrange required No. of Energy meter & ICDP switch -busbar etc. as per Actual space available in electrical room at site)	1.00	Sq. Mtr.	2289.00	Rupees Two Thousand Two Hundred Eighty Nine Only	2289.00

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42	Providing, erecting, Fabricating the M.S. structure as per requirement of site as per structure design Including proper size approved by EIC of M.S. angles, flats, bars, square pipe, channels, sections (Tata, Jindal, Asian, JSI Make) complete with cutting, welding, grinding and finishing duly painted with Asian/Nerolac make premium quality oil paint and true care red oxide metal primer,asian paint make with erection on site as per direction of engineer in charge with necessary grouting cementing, plastering and finishing complete. All hole opening of square pipe end must be closed with M.S plate welding. Payment will be done on KG as per Actual weight.	30.00	Kg.	75.10	Rupees Seventy Five and Paisa Ten Only	2253.00
43	Providing & fixing Solderless 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. [a] 1.5/2.5 to 6 Sq.mm	760.00	Each	8.00	Rupees Eight Only	6080.00
44	Providing and Laying of Mains with ISI marked, 1.1 KV 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. [g] One wire 16.00 sq. mm	90.00	Mtr.	141.00	Rupees One Hundred Fourty One Only	12690.00
45	Providing and Laying of Mains with ISI marked, 1.5 KV 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	100.00	Mtr.	56.00	Rupees Fifty Six Only	5600.00
46	Providing following type of Modular Type Accessories mounted with 20 G company fabricated metallic box, single mounting base frame covered with textured / metallic front plate, modules erected with necessary connection. As desired by Engineer in charge. Blank Plate Single Cat-II.	40.00	Each	16.00	Rupees Sixteen Only	640.00

Item No.	Description of Item	Total Quantity	Unit	Quated Rate in		Total Amount Rs.
				Rate Rs.	In Words	
[1]	[2]	[3]	[4]	[5]	[6]	[7]
47	<p>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 with Hot Deep Galvanised door having 2 nos. 180° operated hinges & 2 nos. Ln key locking with silicon rubber gasket. Consist of terminal plate of min 6mm Hylam sheet, standard profile 35 mm X 7.5 mm Din-Rail & MCB, Brass stud type terminal and arrangement for cable termination to be erected on RCC foundation as per details given by manufacturer and EIC considering site requirement.</p> <p>Foundation Details: (1) Grade of RCC 1:2:4, (2) Grade of steel rainforcement of RCC FE 415, (3) Clear cover to rainforcement 50mm, (4) Concrete vibrated, (5) use suttering / farma, (6) Hot deep galvanized average 70 Micron, (7) Detail drawing will be given by corporation (C) 5 Mtr. Long 70 mm Top X 130 mm bottom dia, 3 mm thickness with 200 mm X 200 mm X 12 mm base plate, 4-M16 Bolts and 600 mm long hot deep galvanized J-Bolt, nuts, washers with 800 mm under ground and 200 mm above ground level and Foundation in 1:2:4 proportion as per details given by manufacturer and EIC considering site requirement. Approx Pole weight 46 kg. (Make:- Bajaj, Valmont, Transrail, Ambica,RR Ispat Only) (Test certificate to be submitted))</p>	16.00	Each	6917.00	Rupees Six Thousand Nine Hundred Seventeen Only	110672.00
48	<p>Supplying & erecting Galvanized iron pipe post ISI mark 'B' class 88.9 mm. O.D. 6 mtrs. Long duly painted with two coats of alluminium paint and metallic base plate of 300 x 300 x 4 mm. thick to be erected as a compound light pole with wire entry nipple and earthing bolt. Approximate weight of pole 47 Kg. within permissible limits as per IS effective length of sections Bottom: 5.5 mtr. having outside dia. 88.9 mm. Top: 0.5 mtrs. having outside dia. 76.1 mm. (Jindal / Asian / Tata / Surya Prakash make) (ISI test certificate from pipe manufacture & Class / make / length / O.D. / wall thickness / GI / MS / Weight test certificate from pole manufacture shall be submitted) [Asian colour must be used]</p>	7.00	Each	4397.00	Rupees Four Thousand Three Hundred Ninety Seven Only	30779.00
49	<p>Supplying and making Coil type earthing, coil made from 8 SWG galvanised iron wire with 50 mm OD and 50 turns (length of turns approx. 200 mm) and having additional continuous streight length of 3.00 mtr at open end and should be connected to earthing bolt and burried in 1.5 mtr deep specially prepared earth pit complete with salt and charcoal/coke as required for coil type earthing.(Approx weight of coil 1.0 to 1.1 Kgs)</p>	28.00	Each	369.00	Rupees Three Hundred Sixty Nine Only	10332.00
50	<p>Providing cement concrete foundation (1:2:4) using 45cm inside dia. Farma including excavation for the pole with 45 cms dia. round having depth 120 cms. (20 cms. above ground) with necessary curing, plastering and white washing.</p>	12.00	Each	801.00	Rupees Eight Hundred One Only	9612.00

Item No.	Description of Item	Total Quantity	Unit	Quated Rate in		Total Amount Rs.
				Rate Rs.	In Words	
[1]	[2]	[3]	[4]	[5]	[6]	[7]
51	Supplying and erecting Fabricating terminal box for street light pole made from 16 SWG M.S. sheet having following size complete with fixing arrangement for terminal board, with necessary hole for wire entry and exit from the box. The box shall be provided with cover and hinges on one side and bolting at other end The box shall be fixed by clamps fabricated from 25mm x 6mm flat.The box shall be painted with one coat of red oxide and two coats of paint having following box size 330 mm x 260 mm x 140 mm (depth). Providing and fixing Terminal board of size 5.0 x 127 x 152.4 mm.bakelite sheet with 15 Amp. kitkat pattern porcelain fuse unit with suitable brass studs with nuts, washers and clamps of size 25 mm x 3 mm suitable for pole painted with one coat of red lead paint.	21.00	Each	702.00	Rupees Seven Hundred Two Only	14742.00
52A	Providing & erecting bracket consisting of ISI mark "B" class G.I. Pipe 4.2 cm outside diameter complete with suitable G.I. Sleeve tubing of 2 mm. thick and required size and length suitable for 76.5 / 80 mm. required size of pole top or pipe in pipe surface for terrace as per instruction of EIC or wall bracket as per instruction of EIC having nuts and bolts for fixing the brackets and having spread of Upto 0.50 mtr. length with suitable rise as per site condition and suitable welded stiffner reducer and nipple with check nut complete painted with one coat of yellow zinc and two coats of alluminium paint for Single arm bracket suitable for pole or terrace as per design given by EIC (a) For single arm bracket. (Jindal / Asian / Tata / Surya Prakash make Only) (Fabricators:- Bajaj, Valmont, Transrail, Ambica, RR Ispat Only) (Test certificate to be submitted)	30.00	Each	487.00	Rupees Four Hundred Eighty Seven Only	14610.00
52B	For Double arm bracket. (Jindal / Asian / Tata / Surya Prakash make Only) (Fabricators:- Bajaj, Valmont, Transrail, Ambica, RR Ispat Only) (Test certificate to be submitted)	7.00	Each	616.00	Rupees Six Hundred Sixteen Only	4312.00
53	Providing and Fixing SITC of Outdoor aesthetically designed LED Street Light Luminaire with total consumption of Max. 45 W with single piece die cast aluminium housing, high power LED shall be mounted on high quality metal core PCB with extremely precision designed heat sink complete with IP66 protection Class with polycarbonate / toughened glass cover the fixture should be suitable for pole/bracket mounting. The fixture to comply both LM79 and LM 80 guidelines with LED module min. 130 lumen/watt with toughen Glass L70 at 50,000 hrs, provided with high quality polycarbonate lenses for better light distribution. The watt capacity of each LED must be ≥ 4 watt in streetlight fitting The Fixture Should be able to be Pole Mounted and also bracket mounted, provided with high quality driver for protection against high and low Voltage cut Off, opertional for high amibient and high humid envirnments, THD of driver should be less than 10% and P.F > 0.95.	44.00	Each	3512.00	Rupees Three Thousand Five Hundred Twelve Only	154528.00

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				Rate Rs.	In Words	
[1]	[2]	[3]	[4]	[5]	[6]	[7]
	Also the Fixture should meet the following technical criterias Oprating range Voltage 160 to 270 V, system efficiency >= 110 lm/w, and total lumens not less then 4950, CCT > 5000K, CRI > 65, beam angle 120 deg, surge immunity level at least 4 KV integral and 10 KV non integralThe Separate Potted driver should have over current, over voltage protection, short circuit protection so that the fixture recovers once the fault is removed. In addition to the above product should be operational in the temperature range of 0 deg to 50 deg and humidity range of 10% to 90% RH. (Note:- The manufacturer / authorized Channel partner of the manufacturer has to submit 5 yrs free replcement Guarantee for complete Fixture)					
54	Providing & laying HDPE Double walled corrugated pipes (DWC) (conforming to IS: 16205 (part 24) 2018)) with minimum load required of 450N capacity with anti rodent and ultra violet material properties with necessary connecting accessories of same material at required depth to be laid 90 cms. under ground for laying of cable below ground / road surface for enclosing cable and back filling the same to make ground as per original. (A) For Outer dia. 50 mm and Inner dia. 38 mm.) (Test Certificate to be Submitted)	1030.00	Mtr.	117.00	Rupees One Hundred Seventeen Only	120510.00
55	Providing & erecting XLPE (IS : 7098) (I)-88 ISI marked armoured Copper cable for 1100 volt to be laid 90 cms. Under ground or to be laid on wall with suitable G.I. heavy guage 1.0 mm thick cable clamp or in existing DWC pipe underground or road crossing or floor of following size of cables. [B] For 4 core x 4 sq.mm.	1290.00	Mtr.	361.00	Rupees Three Hundred Sixty One Only	465690.00
56	Providing & erecting XLPE (IS : 7098) (I)-88 ISI marked armoured Copper cable for 1100 volt to be laid 90 cms. Under ground or to be laid on wall with suitable G.I. heavy guage 1.0 mm thick cable clamp or in existing DWC pipe underground or road crossing or floor of following size of cables. [B] For 4 core x 2.5 sq.mm.	100.00	Mtr.	269.00	Rupees Two Hundred Sixty Nine Only	26900.00
57	Providing & fixing double compressed heavy duty flange type brass cable gland with rubber ring for P V C insulated armoured cable complete with outgoing tails, insulating tape etc. For following size cables. For 2 to 4 core x 2.5/4.0 Sq. mm (Sigma, MCI, Comet Make Only)	50.00	Each	43.00	Rupees Fourty Three Only	2150.00
58	Supplying & Erecting following size of Light duty "A" Class G.I. Pipe & erecting as directed by Engineer-in-charge. For 25 mm dia.	45.00	Mtr.	171.00	Rupees One Hundred Seventy One Only	7695.00
59	Providing & Erecting Flexible PVC insulated multistrand multicore 1.1 kv grade ISI marked copper wires of following size to be erected as directed. 3 core 1.5 sq.mm. PVC insulated round copper wire ISI mark.	275.00	Mtr.	46.00	Rupees Fourty Six Only	12650.00

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				Rate Rs.	In Words	
[1]	[2]	[3]	[4]	[5]	[6]	[7]
60	Painting of street light pole with bracket complete with two coats of Aluminium paint for following size of pole.(B) up to 6 mtr.	5.00	Each	263.00	Rupees Two Hundred Sixty Three Only	1315.00
61	Providing & Erecting Universal Astro 5 KVA intelligent streetlight control system insu with weather proof box for outdoor application. (As per specification attached separately) (Make and model approved by EIC)	2.00	Each	12895.00	Rupees Twelve Thousand Eight Hundred Ninety Five Only	25790.00
62	Providing and erecting metallic danger notice board for MEDIUM VOLTAGE installation to be erected as per I.S.	2.00	Each	69.00	Rupees Sixty Nine Only	138.00
63	Dismantling the existing light, fan, bell, independent plug point, wiring with mains of all types along with accessories etc. complete and handed over to dept.	50.00	Point	1.00	Rupees One Only	50.00
64	Dismantling the existing switchgears, DB and Busbar of any size complete with / without board or angle iron frame.	1.00	Each	7.00	Rupees Seven Only	7.00
65	Dismantling the existing ceiling fan / exhaust fan / cabin fan / bracket fan complete with accessories, G.I. down rod, frame etc. and making the site clear.	9.00	Each	9.00	Rupees Nine Only	81.00
66	Dismantling the existing pole up to 6 m height with brackets, clamps, insulators, stay from the cement concrete foundation and making the site clear by refilling the pits with excavated materials and bringing it to the ground level.	16.00	Each	212.00	Rupees Two Hundred Twelve Only	3392.00
67A	Providing & Erecting following Shockproof tissino type accessories erected on 3 mm thick PC (Polycarbonate) sheet in PVC/ Metal/Wooden Box. erected on wall/ ceiling. For One no Single pole 6 A Switch / Bell push	200.00	Each	31.00	Rupees Thirty One Only	6200.00
67B	One no 3/5 pin 6 A Socket	30.00	Each	31.00	Rupees Thirty One Only	930.00
67C	One no Single pole 16 A Switch	30.00	Each	47.00	Rupees Fourty Seven Only	1410.00
67D	One no 6/16 A Universal Socket	30.00	Each	47.00	Rupees Fourty Seven Only	1410.00
67E	One no Single pole 16 A Switch & One no 6A/16A Universal Socket combined with indicator & fuse	10.00	Each	124.00	Rupees One Hundred Twenty Four Only	1240.00
67F	Bakelite ceiling rose	30.00	Each	18.00	Rupees Eighteen Only	540.00

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67G	Bakelite lamp holder	60.00	Each	22.00	Rupees Twenty Two Only	1320.00
67H	Electronic Hum free EME Socket Type Steps Fan Regulator	40.00	Each	217.00	Rupees Two Hundred Seventeen Only	8680.00
67I	Providing & Erecting 3 mm thick acrylic Sheet with grooving as directed	600.00	Sq. Inch	3.00	Rupees Three Only	1800.00
67J	Providing & Erecting 3mm thick Polycarbonate (PC) sheet with grooving as directed	600.00	Sq. Inch	3.00	Rupees Three Only	1800.00
			Total Amount Of Ele Work Rs....(B) =			1297592.50
			Total Amount Of (A)+(B) =			3109954.15

Signature of the contractor.

I/C Executive Engineer
G.S.Police.Housing Corp.Ltd.
Rajkot