

**Name of Work:****Repairs work to Officers Hostel building in Walmi Campus RTC Surat****BILL OF QUANTITIES****Percentage Rate Tender**

<b>Item No</b>	<b>Description of Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate In figures</b>	<b>Amount</b>
1	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	46.00	Cu.m	123.13	<b>5663.98</b>
2	Filling in foundation and plinth with murrum or selected soil in layers of 20cm. thickness including watering, ramming and consolidating etc. complete.	12.00	Cu.m	301.78	<b>3621.36</b>
3	Supplying of crushed stone aggregates, chippings etc. of hard stone of following nominal size free of disintegrated pieces deleterious and oraganic mater (for Bitumen surface dressing etc.) and grading as per I.R.C. Code.(ii)40mm	14.00	Cu.m	482.08	<b>6749.12</b>
4	Spreading the stone aggregate for rolling and W.B.M. including filling the interstices to required camber and gradient (excluding spreading of Blindage)(ii) 40mm to 63mm size aggreagates (H.B.)	14.00	Cu.m	268.92	<b>3764.88</b>
5	Spreading blindage or road crust filling the gaps in metal and leveling to camber and gradient as directed.(ii)Sand	8.00	Cu.m	159.01	<b>1272.08</b>
6	Providing and laying cement concrete 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth	12.00	Cu.m	3741.69	<b>44900.28</b>
7	Removing dry or oil bound distemper by a washing and scraping and sand papering the wall surface smooth including necessary repairs to scratches complete.	492.00	Sq.mt	11.87	<b>5840.04</b>
8	Removing dry or oil bound distemper by a washing and scraping and sand papering the wall surface smooth including necessary repairs to scratches complete. (b) for removing dry oil bound distemper on ceilings and sloping roofs.	158.00	Sq.mt	13.54	<b>2139.32</b>

Item No	Description of Item	Quantity	Unit	Rate In figures	Amount
9	Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed.(h) with oval conduit /PVC casing capping double lock type erected concealed in wall/ceiling complete	6.00	Pt.	441.37	<b>2648.22</b>
10	Point wiring for Tissino / Modular secondary light point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires, in below type of pipe to be erected complete with earth continuity and necessary connection with primary light with accessories erected on Metal / PVC / wooden box covered with 3 mm thick PC(Polycarbonate) / Acrylic sheet for open / concealed wiring. with necessary Lamp holder / ceiling rose / H.D.Connector as directed. (h) with oval conduit /PVC casing capping double lock type erected concealed in wall/ceiling complete	50.00	Pt.	146.45	<b>7322.50</b>
11	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [II] For 16A Plug and 16 amp switch with 2-2.5 sq.mm Cu. Wire from mcb db board. (c) with oval conduit /PVC casing capping double lock type erected flushed on wall/ceiling complete	4.00	Pt.	614.08	<b>2456.32</b>
12	Providing & erecting Switch board for Computer or electric apparatus consisting of following modular type accessories mounted with PVC / Metallic concealed/open box with single mounting base frame covered with textured/metallic /white front plate,modules erected with necessary connections as directed 1 no. 6A/16A universal plug-switch combined. 3 nos. 6A Switch 3 nos. 6A 5 pin Plug For Modular Type Accessories Cat. III	6.00	Ea	1133.22	<b>6799.32</b>

Item No	Description of Item	Quantity	Unit	Rate In figures	Amount
13	Providing & erecting Approved make Power Saving 50 Watt Ceiling Fan with double ball bearing ISI mark with Condenser 230 volt A.C. 50 Hz 1200 mm sweep complete having 3blades with aluminium blades with , canopy & 30 cm. down rod erected with earthing.(Make shall be approved by Engineer in charge))	7.00	Ea	1948.29	<b>13638.03</b>
14	Supplying and erecting approved make oscillating type bracket fan A.C. 230V. 50cy/s 400/450 mm sweep wall mounted with height adjustment and rotary tilting device complete with guard, flexible Core plug top complete erected with lead wires as directed. Cat.II	2.00	Ea	2534.09	<b>5068.18</b>
15	Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with proper insulation without leakage and earthing.	5.00	Rmt	108.07	<b>540.35</b>
16	Supplying & erecting approved make low noise decorative exhaust fan having square frame ABS body with inbuilt lowers & square frame.200mm with 1350RPM	5.00	Ea	1703.87	<b>8519.35</b>
17	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V,Power Factor more than 0.95, THD < 15 %, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt , LED driver efficiency > 85 % ( fitting 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.) (A) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete.IP20 (iii) 16-20 watts, Surge-2 KV	50.00	Ea	589.84	<b>29492.00</b>
18	Approved make CFL Retrofit 5 / 7 / 9 /11 Watt, erected if required Cat.III	14.00	Ea	103.02	<b>1442.28</b>

Item No	Description of Item	Quantity	Unit	Rate In figures	Amount
19	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.) (A) Street Light (IP-65), Surge protection -4KV integral and ,Light must have 440VAC line supply with over-voltage protection. (ii) above 48 to 60 Watts - Cat-III	4.00	Ea	3345.12	<b>13380.48</b>
20	Providing and erecting street light pole bracket comprising main B Class MS pipe of 4.2 cm/require outside dia. complete with suitable B Class M.S. 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. [A] Single Arm bracket 1 Mtr	4.00	Ea	561.56	<b>2246.24</b>
21	Providing and erecting Inverter based approved make split air-conditioning unit consisting of condensing unit with variable speed fan motor, inverter type hermetically sealed rotary compressor with accessories etc. duly connected separately erected evaporating unit and blower motor with its accessories by means of extra supplied proper insulated copper tubing,drain PVC pipes suitable for ( cost includes Eco Friendly green gas charging and 15A plug top & Remote Control & MS Stand) with necessary core cutting. (1)For 3 Star Rating of current year (B) for 1.5 ton capacity	2.00	Ea	41725.12	<b>83450.24</b>

Item No	Description of Item	Quantity	Unit	Rate In figures	Amount
22	<p>LIGHT WEIGHT CALCIUM SILICATE GRID CEILLING:</p> <p>Providing and fixing eco-friendly light weight calcium silicate false ceiling tiles having Tegular edge &amp; 15 mm Thick Densified edges on the Tile Periphery for Extra Strength The Light weight calcium silicate ceiling tiles shall have , light reflection 85% non-combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity 0.043° w/m KC. for the best thermal Insulation. The Light weight calcium Silicate tile shall be of approved texture Fine fissured/ Spintone/Cosmos having NRC value of 0.5 &amp; Globe having NRC value of 0.75 NRC or equivalent of size 595 X 595 mm to be laid on true horizontal level suspended inter locking metal grid of hot dipped galvanized steel sections (galvanizing @120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and size of 24X38mm made from 0.30 mm thick (minimum) sheet, 1200mm</p>	137.00	Sq.mt	1674.15	<b>229358.55</b>
	<p>centre to centre, and cross 'T' of size 24X28mm made out of 0.33mm (Minimum) sheet spaced 1200mm along spaced between main 'T' at 600mm centre to centre to form agrid of 1200X600mm and secondary cross 'T' of length 600mm and size 24x28mm made of 0.30 mm thick (Minimum) sheet to be interlocked at middle of the 1200X600mm panel to form grid of size 600X600mm resting on periphery walls/ partitions on a perimeter wall angle pre-coated steel of size (24X24X3000mm made of 0.40mm) sheet with the help of rawl plugs at 450mm centre to centre with 25mm long drywall screws @ 230mm interval and laying 15mm thick Densified edges light weight calcium silicate ceiling tiles of approved texture (Fine Fissured/Cosmos/Spintone) in the grid including, cutting /making opening for serviceslike diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required,</p>				

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	Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25X35X1.6mm fixed to ceiling with 12.5mm dia and 50mm long dash fasteners, 4mm G.I. adjustable rods with galvanized steel level clips of size 85X30X0.8mm, spaced at 1200mm centre to centre long main 'T' bottom exposed with 24mm of all T-sections shall be pre-painted with polyester baked paint, for all heights, as per specifications, drawings and as directed by engineer-in-charge.Note:- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm. The calcium silicate ceiling tiles shall have NRC. Value of 0.50 (Minimum) for Fine fissured/Spintone/Cosmos and 0.75 NRC for Globe, light reflection 85% non-combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity. 0.043° w/m KC.for the best thermal Insulation				
23	Finishing wall with weather proof exterior emulsion paint on wall surface (two coats) to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials.etc complete	547.00	Sq.mt	120.26	<b>65782.22</b>
24	Providing dry pressure type Powder Based N2 (Stored Pressure) Low Pressure Extinguisher (Service Pressure ≤19 bar) ABC Powder Based Fire Extinguisher Capacity in 9 Kg Class -B FIRE EXTINGUISHERS as directed by executive incharge	2.00	Ea	1868.5	<b>3737.00</b>

Item No	Description of Item	Quantity	Unit	Rate In figures	Amount
25	Providing and fixing 600mm x 450mm bevelled edge mirror of superior glass mounted on 6mm thick A.C. sheet or plywood sheet and fixing to wooden plug with C.P. brass screws and washers	5.00	Ea	859.41	<b>4297.05</b>
26	Providing and fixing C.P. brass towel rail complete with C.P. brass brackets fixed to wooden plugs with C.P. brass screws.(B) 600mm x 20mm size.	5.00	Ea	616.42	<b>3082.10</b>
27	Providing and fixing 600mm x 120mm glass shelf with C.P. brass bracket and guard rail complete mixed to wooden plug with C.P. brass screws.	5.00	Ea	549.53	<b>2747.65</b>
28	Providing laying and jointing in true line and level 15mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	40.00	Rmt	72.65	<b>2906.00</b>
29	Providing laying and jointing in true line and level 25mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	150.00	Rmt	91.84	<b>13776.00</b>
30	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35Kg/Cm <sup>2</sup> in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm intenal dimensions total weight of cover with frame to be not less than 38Kg. (Wt. of cover 23 Kg.) and Wt. of frame 15Kg. ) (R.C.C. top slabe with 1:2:4 mix (1-cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete.(i) Inside dimensions 455mmx610mm and 450mm deep for single pipe line.	3.00	Ea	2932.93	<b>8798.79</b>
31	Providing big plastic bucket use for hostel building	8.00	No.	169.49	<b>1355.92</b>
32	Providing small plastic bucket of use for hostel building	8.00	No.	127.12	<b>1016.96</b>
33	Providing plastic tumbler of bathroom use for hostel building	8.00	No.	42.37	<b>338.96</b>

Item No	Description of Item	Quantity	Unit	Rate In figures	Amount
34	Providing Door Mat (Big) for hostel building	7.00	No.	254.24	<b>1779.68</b>
35	Providing Door Mat (Small) for hostel building	5.00	No.	169.49	<b>847.45</b>
36	Providing bathroom mini table (patla) for hostel building	5.00	No.	127.12	<b>635.60</b>
37	Providing bathroom mini dustbin for hostel building	5.00	No.	101.69	<b>508.45</b>
38	Providing big dustbin for rooms hostel building	10.00	No.	169.49	<b>1694.90</b>
39	Providing Mini Hanger for Rooms hostel building	30.00	No.	67.8	<b>2034.00</b>
40	Providing curtain rods for rooms hostel building	14.00	No.	254.24	<b>3559.36</b>
41	Providing and erecting water cooler having storage capacity 80Ltr. & cooling capacity 40 Ltr.per hour @ an ambient temp of 45° C. The outlet temp. of the water should drop by 15° C within a hour, The water cooler should be comprising of hermetically sealed compressor, fan motor, condensing unit, water tank surrounded by evaporating coil, thermostats, relay etc. complete with necessary inlet & outlet connection. The body of water cooler will be made from Stainless Steel.	1.00	Ea	49559.69	<b>49559.69</b>
42	Supplying & erecting 5 stage single reverse osmosis water purification system with M.S. powder coated frame, prefilter housing with 'O' ring presediment filter GAC filter, carbon filter suitable buster DC pump capacity 80 psi, mention with 40 psi inline type post carbon filter auto low & high pressure switches with following size of storage tank & LPH capacity & erected as directed with one year comprehensive maintainance guarantee [B] 25 Ltr / Hr with 30 Ltr. S.S.Pressure Tank	1.00	Ea	15620.66	<b>15620.66</b>
43	Supplying and erecting horizontal / vertical mounting type storage water heater with copper container housed in M.S./S.S./ABS body insulated with glass wool/puff complete with heating elements,adjustable thermostats 300C to 850C, indicating lamp, safety valve, fusible plug, etc.complete erected with coach bolts, nuts. washers & cementation (B)15 Ltr-.with 2 /3K.W. heating element Cat - III	5.00	Ea	7808.31	<b>39041.55</b>
44	Providing water proofing soloution by painting inerior surface of existing walls affected by dampness with 2coats of smartcare hydroloc xtreme primer, 1coat of Damp seath interior paint with 2 coat water proofing putty and 2 coat of tractor emulsion paint as per directed with necessary washing, cleaning and other requires measures by engineer incharge	6994.00	Sqft	34.55	<b>241642.70</b>
				<b>Total Rs.</b>	<b>945075.81</b>



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I/We am/are willing to carry out the work at.....% above/below percent(Should be written in figures and words) of the estimated rate mentioned above. Amount of my /our

Tender works out as under.	Estimated amount put to tender
Estimated amount put to tender	
Deduct.....% below	Add.....% Above
Net	Net
In words In words	In words In words

**Notes:**

- 1 The Contractor shall exhibit a board with detailed specification and details of work as directed by the Engineer-In-Charge for which no extra payment shall be made.
- 2 The labour cess will be deducted as per prevailing rules i.e. 1% of the work done.
- 3 GST and Income tax TDS will be deducted at a source while making payments of bills
- 4 In all R.C.C. Items in Rate Analysis Standard Cement Consumption has been taken as per Govt. G.R.: PRC-10/2017 Cement Consumption/16/C Date:11/05/2017 as stated in S.O.R. therefore in R.C.C. items where there is a change as per actual mix design the cost of difference of cement consumption have been deducted from the rate of original item at the rate of input rate mentioned in all the tender.

Deputy Executive Engineer  
RTC,WALMI,SURAT

Executive Engineer  
RTC,WALMI,SURAT

Deputy Director (Tech.)  
WALMI, Anand