

Name of work: Repair and renovation work of existing Post Office at GERI Campus, Vadodara

BOQ

Quantity	Unit	It. No.	Item	Rate	Amount
1	2	3	4	5	6
1.25	Cum.	1	Demolition including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift. (i) R.C.C. work	1084.30	1353.52
7.64	Cum.	2	Demolition of Brick work and stone masonry including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.(ii) In Cement Mortar.	564.16	4307.70
0.56	Qtl.	3	Providing and fixing in position collapsible steel shutters with vertical channels 20 x 10 x 2 mm braced with flat iron diagonals 20 x 5 mm size with top and bottom rails of T_rin 40x 40 x 6 mm with 38mm dia, steel pulleys complete with bolts, nuts, locking arrangements, stoppers handles including applying a priming coat of red lead paint.	5941.61	3352.02
5.29	Sqm.	4	Painting two coats (excluding priming coat) on new steel and other metal surface with synthetic enamel paint, brushing to give an even shade including cleaning the surface of all dirt, dust and other foreign matter.	66.94	354.05
54.48	Sqm.	5	Applying wax polish on previously wax polished wood and wood based surface with bees wax polish in proportion of :1.5 :1:0.5 (2-Bees wax : 1.5 Linseed oil : 1- Turpentine : 0.5 varnish by weight to give an even surface including cleaning the surface of all dirt dust and sand papered smooth	37.67	2052.29
54.48	Sqm.	6	Carrying out timber treatment to all wood work including drilling holes and spraying oil based chemical solution on surface of timber work for termite control including labor and material etc. complete. Using Chlorpyrifos 20 EC as per 6313 2013 Part III (1% concentration by mass) is recommended one litre chemical emulsion diluted with 19 liters of kerosene. Total diluted concentration will be 20 liters inclusive of 1 liter chemical emulsion application in drilled holes and 0.75 / Litre chemical per one Sqmt two coat on wood surface not protected by paint or varnish	53.66	2923.44
73.24	Sqm.	7	Polishing of existing Kota stone flooring by machine grinding in stages using diamond abrasives and polishing compound, cleaning the surface of all dirt, stains, grease, and loose particles, applying polishing materials, and buffing with polishing machines to achieve uniform smooth surface and shine as per approved sample, including polishing of all skirting and vertical surfaces manually with matching finish, complete in all respects as per direction of Engineer-in-Charge.	252.50	18492.72
7.32	Sqm.	8	Providing and laying polished Kota stone slab flooring over 20mm (Average) thick base of cement mortar 1:6 (1-cement : 6-coarse sand) or L.M. 1:1.5 (1-Lime putty :1.5 - coarse sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing and polishing etc. complete. (A) 25mm thick	1001.14	7332.20
2.96	Sqm.	9	Providing and laying polished kota stone slab 25mm thick in risers of steps,skirting Dedo and pillars laid on 10mm thick cement mortar 1:3 (1-Cement : 3 coarse sand) and jointed with gray cement slurry mixed with pigment to match the shade of slab including rubbing and polishing etc. complete.	1149.52	3396.83
1.33	Cum.	10	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in foundation and plinth in Cement Mortar 1:6 (1- Cement : 6 -fine sand)(B) Conventional	4121.55	5473.42

7.61	sqm.	11	Half brick masonry in common burnt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Cement mortar 1:4 (1- Cement : 4 -coarse sand) in Superstructure (B) Conventional	669.50	5092.89
16.57	sqm.	12	Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls for interior plastering upto floor two level and finished even and smooth in (i) Cement mortar 1:3 (1-cement:3-sand)	192.41	3187.99
7.95	Sqm.	13	Providing and laying Ceramic tiles 6mm thick in flooring treads of steps and landing laid on a bed of 12mm thick cement mortar 1:3 (1-cement : 3-coarse sand) finishing with flush pointing in white cement.	983.20	7818.01
41.39	Sqm.	14	Providing and laying coloured glazed tiles of the size 300 mm x 200 mm x 8 mm / 300 mm x 450 mm x 8 mm in skirting, risers of steps and dado on 10 mm. thick cement plaster 1:3 (1 cement : 3 coarse sand) & jointed with white cement slurry	1477.25	61136.73
11.34	Sqm.	15	Providing and fixing window having extruded aluminum Colour anodized section frame main outer size 95mm x 24mm x 1.17mm @ wt.of 0.738 Kg/mt , horizontal Three track member size 92mm x 31.75mm x 1.30mm,@ Wt.1.07 Kg/mt , vertical member of size 92mm x 31.75mm x 1.50mm @ Wt. 1.06 Kg/mt with sliding shutters of horizontal member size 40 mmx18mm x1.29mm @ wt.of 0.456 Kg/mt, vertical member of size 40mm x 18mm x 1.29 mm @ wt.of 0.456Kg/mt/ with 5 mm thick transparent bronze colour tinted float glass in two track and fly proof galvanised MS wire gauge in one track with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing to frame as per details etc	2176.28	24679.02
1.44	Sqm.	16	Providing & Fixing in position standard extruded approved colour anodised Aluminum Ventilation with outer frame of 63.50 x 38.10 x 1.95mm (Jindal Section No.4605,@ Wt 1.094 kg/Rmt) with 5mm thick Bajari figure adgesteble tinted louvers glass fixed to alluminium strip blade including fixtures, fastenning, labours and equipments as per detailed drawing as directed. For Ventilation.	4514.70	6501.17
11.78	Sqm.	17	Providing and fixing mirror polished 18 mm thick Selected colour Granite stone with full round edge and polished of approved quality in cladding on sill and around the doors/ windows/ ventilation with 12 mm thick cement mortar CM (1:4) and fixing with cement slurry & adhesive including moulding of exposed edges as directed by engineering in charge etc. complete.	2373.50	27962.20
594.80	Kgs.	18	Providing and fixing Safty Grill of required pattern for windows/ Door using necessary M.S angle/ M.S pipe, M.S flats and other structural steel at required spacing including cutting, welding and fabrication etc. including one coat of primer of approved quality and two coats of oil painting as per detail drawing etc complete.	108.58	64583.38
0.62	Cum.	19	Providing and laying controlled cement concrete M-200 and curing etc. complete including the cost of form work and Excluding cost of reinforcement for reinforced concrete work in Chhajja for Ground Floor.	6504.40	4056.79
0.43	Cum.	20	Providing and laying controlled cement concrete M-200 and curing etc. complete including the cost of form work and Excluding reinforcement for reinforced concrete work in (c) Lintal for Ground Floor.	7566.92	3289.34
375.94	Kgs.	21	Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level	77.29	29056.78
547.18	Sqm.	22	Removing dry or oil bound distemper by a washing and scraping and sand papering the wall surface smooth including necessary repairs to scratches complete.	11.58	6336.30
157.86	Sqm.	23	Removing dry or oil bound distemper by a washing and scraping and sand papering the Ceilings surface smooth including necessary repairs to scratches complete.	13.22	2086.86

400.44	Sqm.	24	Removing and scraping of old deteriorated plaster of any thickness from wall / R.C.C member including stacking of serviceable material and disposal of unserviceable from site of work with all lead and lift	20.06	8032.79
705.03	Sqm.	25	Applying two coats of putty & two coats of primer of approved brand and manufacture on new wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.	40.59	28617.26
547.18	Sqm.	26	Wall painting (two coats) with plastic emulsion paint of approved brand and manufacture on undecorated wall surface to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.	80.87	44250.13
157.86	Sqm.	27	Ceiling painting (two coats) with plastic emulsion paint of approved brand and manufacture on undecorated Ceiling surface to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.	86.42	13641.93
400.44	Sqm.	28	20mm thick sand faced cement plaster on walls upto height 10 metres above ground level consisting of 12mm thick backing coat of C.M. 1:3 (1-cement : 3-sand) and 8mm thick finishing coat of C.M. 1:1 (1-cement : 1-sand) etc. complete.	337.52	135155.88
400.44	Sqm.	29	Applying two coats of primer of approved brand and manufacture on new wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.	14.21	5690.23
400.44	Sqm.	30	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	117.40	47011.44
3.00	Nos.	31	Providing and fixing floor-mounted vitreous china washdown water closet (Western type) of approved make (e.g., Parryware Verve AM or equivalent), including soft-close seat cover, dual flush cistern (3/6 litre capacity), suitable trap (S or P), flush pipe connection, CI/PVC soil pipe connection up to floor trap, with necessary fittings, nuts, bolts, rubber gaskets, and sealants as required. The rate shall also include fixing of chrome-plated health faucet with 1.2 m flexible hose, wall hook, and CP angle valve, including all necessary accessories, minor plumbing works, testing, and commissioning, complete in all respects as per manufacturer's specifications and direction of Engineer-in-Charge.	19945.28	59835.84
3.00	Nos.	32	Providing and fixing 450mm Dia Wall - mounted Vitreous China Wash Basin (e.g., Parryware Vibe or equivalent of approved make and including necessary CP brass fittings such as pillar cock, CP angle valve, Waste Coupling 32 mm dia, CP Bottle trape, Angular Stop cock and sealing with white cement/epoxy sealant. The rate shall also include necessary plumbing connections, drilling/grouting of anchor fasteners, and making good the wall surface after installation. Complete in all respects as per direction of Engineer-in-Charge	9491.78	28475.34
3.00	Nos.	33	Providing and fixing 15 mm nominal bore CP brass bib tap (bib cock) of approved make (e.g., Parryware Claret or equivalent), including all required PTFE tape, washers, minor fittings, and making proper watertight threaded connection to CPVC/GI pipe, including testing, cleaning, and finishing, complete in all respects as per manufacturer's specification and direction of Engineer-in-Charge.	1140.89	3422.66
3000.00	Litres	34	Providing erecting and fixing Triple coated ISI water tank of required capacity each with all necessary fittings and connection etc. complete on terrace	11.11	33330.00

40.00	Rmt.	35	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	91.84	3673.60
35.00	Rmt.	36	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	72.65	2542.75
30.00	Rmt.	37	Providing, laying and jointing in true line and level 110 diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diameter x 149 mm length x 145 mm heigh at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	856.03	25680.90
20.00	Rmt.	38	Providing laying and jointing in true line and level 50mm 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.	195.67	3913.40
20.00	Rmt.	39	Providing laying and jointing in true line and level 75mm 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.	737.30	14746.00
1.00	Nos.	40	Providing and fixing vitreous china manual flush urinal (Star White color) of approved make (Hindware or equivalent), including necessary CI brackets, inlet and outlet CP fittings, standard flush valve (pressmatic), fixing with screws and rawl plugs, testing, commissioning, and all complete as per the direction of the Engineer-in-Charge.	8454.56	8454.56
4.00	Nos.	41	Supplying and fixing SS Cup Type Nahani Trap of approved make and design, with 100 mm dia grating fittings like elbows/couplers, and solvent welding, complete with testing, cutting, fixing in floor level as per specifications and direction of Engineer-in-Charge.	1140.89	4563.56
4.61	Sqm.	42	Providing and fixing FRP frame size 125x65 mm and 35mm thick FRP shutter with wood grain raised paneled design finish shutter having extra reinforcement on sides & edges in Gel coat finish. The core of the shutter & frame is to be filled up with injected polyurethane foam done in situ alongwith embedded wooden pieces for stiffening & also taking hinges & fintures. The whole FRP frame & shutter is to be water proof weather proof, termite proof & resistance to mild acid/alkali. Rates are to be inclusive of S.S hinges with fastener sleeve & alluminium fixtures & fastenings.	2019.98	9317.16
12.36	Sqm.	43	Scraping oil paint from steel and other metal surface and making the surface even (with Hand Scraping.)	50.55	625.00

12.36	Sqm.	44	Painting one coats (excluding priming coat) on previously printed steel and other metal surface with synthetic enamel paint, brushing to give an even shade including cleaning the surface of all dirt, dust and other foreign matter.	45.01	556.50
33.45	Sqm.	45	Providing & fixing in position standard extruded Alluminium partition with 5mm thick Top portion fix Glass and 18mmthick Down portion prelaminated partical board with anodized section for outer frame size 63.00 x 38.10 x 1.47 mm of approved shade aluminum standard section and providing rubber gasket around the glass and partical board around aluminium glasing cleat and inserting wooden pieces at joint and fixtures portion including all required materials labours and equipments as per detailed drwg. as directed.	3209.78	107360.72
79.90	Sqm.	46	Providing and laying broken chine mosaic flooring for terrace using 12 mm to 20 mm broken pieces of glazedtiles to be laid over cement mortar 1:3 to plain or slope and to be tempered to bring mortar creme out upto surface using white cement including rounding off junctions and extending them upto 15 cm along the wall,clearing with water and oxalic acid etc. as directed.	765.97	61197.79
348.50	Kgs.	47	Structural steel work (Confirming to IS 4923-1997) riveted, bolted or welded in builtup for all type sections, in framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete as per the structural designs and directions of Engineer in charge.Column (122 x 61 x 3.6mm)	131.15	45705.78
13.94	Sqm.	48	Providing and Fixing 6 mm thick Lexan Polycarbonate multi all roofing sheet fixed with hilti screw and rubber silicon sealer and alluminium strip of size 50 x 3 mm etc complete as directed by Engineer in charge.	1441.90	20100.09
86.62	Sqm	49	Rehabilitation of RCC member in RCC structure for the building upto any height above ground level by providing additional reinforcement and by Polymer Modified Mortar as per following operation and direction of Engineer-in-charge.	4289.54	371558.04
280.00	Nos.	50	Providing and executing injection / pressure grouting in cracks in the parent concrete/ brick work or in honey-comb area by fixing-up PVC or metallic grout-nozzles on line of crack in concrete/ masonry at a distance not exceeding 300mm injecting with the help of grout-pump working at a pressure of 3.00 kg/cm ² ,Pressure grouting to be done using low viscous 2-component epoxy crack injection material " Lanko 721 "of Parexgroup , "Conbextra EP 10 (M)" of Fosroc, " Concrecive 1315" of BASF or equivalent make shall be done in a sequence starting from lowest grout-hole and procedding to the next upper one, sealing the grout nozzles temporarily, on the next day repeating the grout sequence once more before cutting and sealing the nozzles permanently.Finally patching up the plaster with cement mortar (1: 3) proportion using plasticiser to increase workability, curing with water sprinkler for minimum three days including finishing the edges of the patch/groove with birla putty/plaster paris, for even matching with the adjacent plaster area etc.complete.	499.80	139942.60
405.00	Nos.	51	Drilling hole of required diameter and depth as directed for fixing of Rebars using hammer drill.Cleaning the hole using mechanical air blower, water jetting etc.Providing & fixing rebar in the drilled hole using approved make Chemical grout and sealent with necessary scaffolding , staging, labour , tools , and equipments etc. complete and the work shall be carried out by the technical workmens/agency approved by the manufacturer and under technical supervision of Manufacturer of Injection grout.etc. complete as directed by Engineer-in-charge. For 10 mm. dia.bar - Depth 100 mm	191.65	77618.25

241.00	Nos.	52	Providing and fixing 8 mm dia L- shape TMT bar shear connector, 200 mm long for slab, beam and columns including drilling hole, cleaning hole properly with electro-mechanical blower, using approved make chemical grout in the hole, placing L-shape shear connector in position to ensure the bond. Item includes cost of TMT bar also etc, all complete as per direction of Engineer in Charge.	197.02	47481.82
840.95	Cum.	53	Filling available excavated earth (excluding rock) in trenches. plinth, sides of foundations etc. in layers not exceeding 20 cm. in depth consolidating each disposed layer by ramming and watering.	133.65	112393.50
840.95	Cum.	54	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.(C) Hard Murrum	188.31	158360.05
118.70	Cum.	55	Providing and fixing pre-cast Rubber Dye / steel Dye interlocking concrete block 60mm thick with grade of concrete M300 pneumatic compressed / vibrated mechanically and as per approved design Confirming to IS 15658 : 2006 including 30 cm excavation, 20 cm compacted filling, 10 cm M10 PCC and 35 mm Sand layer for levelling and filling the joint with sand in proper line and level as per guidelines of IRC : SP 63-2018 etc. Complete.	1119.38	132870.41
1.00	Each	56	For 1.5HP 3 phase open well horizontal monoblock pump set suitable for 190LPM@ 20mtr headsuitable for 40 mm dia delivery pipe	10284.83	10284.83
1.00	Each	57	Supplying & erecting approved make motor control cubical panel (Direct - on - line) made from 16 G. CRCA sheet duly epoxy powder painted inside and outside with hinged doors and locking, arrangement consisting of suitable size of ON- OFF isolator (AC - 3/23duty) main fuses, single phasing preventer, indicating lamps for R- Y - B phases, overload relay, Automatic water level controller, Ammeter, Voltmeter each with two way selector switch incoming, wires duly socket crimped, main contactor & overload relay, start - stop push buttons, to be erected on angle iron frame grouted on wall as directed. The isolator, overload relay & contactors will be of L & T, Siemens or BCH make only. DOL for 5.0 H.P.	7722.46	7722.46
258.20	Rmt.	58	Providing and fixing pre-cast concrete kerb stone of gray cement based concrete block 30cm length, 30cm height and 15cm thick of M200 grade concrete as per approved design and including excavation for fixing in proper line and level, filling the joint with C:M 1:3 (1cement:3fine sand) etc complete.	394.59	101883.14
79.14	Sqm	59	Carrying out plinth treatment to post construction / existing structure by spraying chemical solution for termite control treatment including labour and material consistent with I.S.I specification. Using Chlordene and Chiorpurfiles 20 EC. As Per 6131_paret-II Concentration Weight one percent is recommended i.e one litre 20 EC chemical emulsion with 19 liter give 1 % concentration inclusive of one litre chemical emulsion application at the rate of 5 Litre chemical / Sqm of surface is recommended as per I.S	97.18	7690.68

40.00	No.	60	<p>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.</p> <p>(A) with medium class Rigid PVC pipe and accessories erected flushed on wall/ceilingcomplete</p> <p>Cat.iii</p>	449.45	17978.00
16.00	No.	61	<p>Point wiring for FAN 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 and hum free EME step type electronic fan regulator mounted and accessories with 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 ceiling rose / H.D.Connector as directed.</p> <p>(a) with medium class Rigid PVC pipe and accessories erected flushed on wall/ceiling complete</p> <p>Cat.iii</p>	638.32	10213.12
20.00	No.	62	<p>Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessories</p> <p>Cat.iii</p>	257.55	5151.00
20.00	No.	63	<p>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</p> <p>1 no. 6A/16A universal plug-switch combined.</p> <p>3 nos. 6A Switch</p> <p>3 nos. 6A 5 pin Plug For Modular Type Accessories</p> <p>Cat.iii</p>	1133.22	22664.40
24.00	No.	64	<p>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 die cast powder coated and high U.V. & corrosion resistance with diffuser 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 LED driver efficiency > 85 %</p> <p>(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.)</p> <p>(A) Tube Light with integral driver</p> <p>36-40 Watts, Surge-2 KV, IP-20, conventional 4 feet</p> <p>Cat.iii</p>	535.30	12847.20

8.00	No.	65	Supplying and erecting 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 (iii) 10 to 15 watts Cat-iii	188.87	1510.96
8.00	No.	66	Providing & erecting fresh air fan 250 mm dia with square frame make of ABS body with louvers Cat.II	1559.44	12475.52
12.00	No.	67	providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark Cat.iii	112.11	1345.32
2.00	No.	68	Providing & erecting 415V 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	668.62	1337.24
1.00	No.	69	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) (b)Sheet Steel double door(i)4 Way	2339.16	2339.16
1.00	No.	70	Plastic enclosure fitted with DIN rail suitable for incorporating Three /Four nos. MCB	108.07	108.07
3.00	No.	71	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 single phase 240 V,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) 40 Amps. DP Cat.iii	2235.13	6705.39
2.00	No.	72	Supplying & erecting Sheet Steel powder coated Cable end termination Box to be mounted on Top or Bottom of the MCB Distribution Box for housing/covering Extra wires & Cables, suitable for following size of MCB DB Box. (B) Single Phase 6 Way	291.89	583.78
2.00	No.	73	Supplying & erecting Sheet Steel powder coated Cable end termination Box to be mounted on Top or Bottom of the MCB Distribution Box for housing/covering Extra wires & Cables, suitable for following size of MCB DB Box. (B) Single Phase 8 Way	326.23	652.46
220.00	Rm.	74	providing and erectingMains with 1.1KVgrade FRL SPVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in/onwall /ceiling with 2.5 sq.mm copper conductor FRLSPVC insulated stranded wire of green colour for earth continuity of following size (h) 4 wire 6 sq. mm	82.82	18220.40

50.00	Rm.	75	providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (A) (A) with medium class Rigid PVC pipe and accessories (a) 4 wire 6 sq. mm	260.58	13029.00
3.00	No.	76	Supplying & erecting 20 Amp 10 KA 'C Curve' single pole MCB with 20 Amp. Plug socket, company fabricated powder coated sheet steel enclosure erected as directed with connection.	527.22	1581.66
5.00	Qtl	77	Providing & fixing White River (Stone) Pebbles size of 2" to 2.5" dia in natural colour at site of work including loading, unloading, carriage and all taxes paid etc.and as per direction of officer in charge	618.12	3090.60
1510.34	Sqm	78	Fine dressing of the ground including levelling, clearing of debris, stones and unwanted material to make the ground suitable for garden work, as per direction of Enginner-in-charge.	18.13	27382.40
2.00	No.	79	Spreading of sludge, dump manure and/or good earth in required thickness as per direction of officer-in-charge	55.55	111.10
1510.34	No.	80	Grassing with selection No. 1 doob grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth With Grass Turf	181.80	274579.21
290.00	Each	81	Providing and stacking of Duranta Golden, having ht.15 to 20 cm bushy shape with fresh and healthy leaves in 15 cm size of Earthen Pot / Plastic Pot & as per direction of the officer-incharge..	60.60	17574.00
12.00	Each	82	Providing, supplying, installing, testing and commissioning of garden sprinklers rated for 2.0 to 3.0 kg/cm ² for irrigation system including connection, sprinkler heads, valves, fittings, and all accessories complete in all respects as per approved layout, specifications and direction of Engineer-in-Charge.	2222.00	26664.00
80.00	Rmt	83	Providing and supplying in standard length ISI mark high density Polyethylene H.D.P.E. Pipes suitable for potable water as per IS specification no. 4984/1995 including all local and central taxes, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to the dept. stores etc. comp (1) Rate for HDPE (PE-100) Pipe based on the rate of HDPE Resin (2) 75 mm	131.30	10504.00
70.00	Rmt	84	Providing and supplying in standard length ISI mark high density Polyethylene H.D.P.E. Pipes suitable for potable water as per IS specification no. 4984/1995 including all local and central taxes, transportation, freight charges, octroi, inspection charges, loading, unloading, conveyance to the dept. stores etc. comp (1) Rate for HDPE (PE-100) Pipe based on the rate of HDPE Resin (2) 50 mm	60.60	4242.00
3.00	Each	85	Providing and erecting approved make splitair conditioning unit consisting of copper condensing unit with fanmotor, hermetically sealedrotary compressor with accessories etc. duly connected separately erecte devaporating unit and blower motor with its accessories by means of extra supplied proper insulated copper tubing,drainPVCpipes suitable for (cost includes powder coated Stand, Eco Friendlygreengascharging, 15A plug top & Remote Control) with necessary core cutting.	36819.55	110458.65

1.00	Each	86	Place Identification Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 150x90 cms. rectangular as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ; reflectorised with High Intensity Prismatic Grade retro reflectivesheeting of Type-4 as per ASTM D-4956 and latest M.O.S.T.Specifications; 4.0mtr (2Nos.) long stand post of Iron Angle 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 7 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (B) Class-B Type-4 Retro Reflective sheeting	12341.52	12341.52
336.00	Each	87	Solder less crimping type Copper lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmiumplated nutbolts in an approved manner.	8.08	2714.88
2.00	Each	88	Supplying & erecting Galvanized M.S pipe post "B" class 88.9 mm O.D 4mtr. Long duly painted with two coats of aluminium paint complete with metallic baseplate of 300 mm x 300mm x 4mm thick for using as a compound light pole with approx. weight 32 Kg.	3225.94	6451.88
2.00	Each	89	Providing & erecting approved make CFL outdoor s type Post top lantern / flying saucer type fittings cast Aluminium/M.S. Powder Coatedpolemounting type with BS lampholder&Clear acrylic diffuser with CFL lamp complete. [C] With One No. retrofit 65 / 85 watt CFL Cat III	1498.84	2997.68
100.00	Rmt	90	Providing and erecting XLPE (IS:7098) (I)-88ISI armoured cable multistrand Copper conductor for 1.1KV. to be laid on wall with necessary clamps or in existing trench / pipe at road crossing or floor of following size of cables. (C) 4 core 25 Sq. Mm	1504.90	150490.00
4.00	Each	91	Providing & fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable, complete with out-going tails & insulating tape –2 to 4 core 25 Sq. Mm	51.51	206.04
8.00	Each	92	Solder less crimping type Copper lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nutbolts in an approved manner.	15.15	121.20
2.00	Each	93	Providing and erecting Sheet Steel powder coated Vertical MCB distribution board (VTPN) flush / surfacemounted double door (IP54) fitted with copper insulated busbar, isolated neutralbar,earth barand DINrail,Conformsto IS8623-1&3, IEC61439-1&3, suitable for 63/100AMPTPNMCCB +RCCBas incomer and three phase outgoing as per following .(The DB sshould be used of same company of MCB to be used)	8402.19	16804.38
1.00	Each	94	Providing & erecting approved make 4-Pole Moulded Case Circuit Breaker (MCCB), breaking capacity ICU = 25 kA at 415 V, normal current rating 25 A to 100 A, fixed thermal & magnetic release, AC supply 50 c/s, with all internal Connections, spreader tinned copper, ICS = 100% of ICU – Cat-III	6790.43	6790.43

1.00	Each	95	Providing & erecting Sheet Steel powder coated Vertical MCB Distribution Board (VTPN) – flush/surface mounted double door (IP-54), fitted with copper insulated busbar, isolated neutral bar, earth bar & DIN rail, conforming to IS 8623-1 & 3, IEC 61439-1 & 3, suitable for 63/100 Amp TPN MCCB + RCCB as incomer, 3-phase outgoing – 4-way outgoing (new distribution panel)	5817.60	5817.60
1.00	Each	96	Providing & erecting Pipe type earthing with 40 mm dia. 2.5 m long "B" grade G.I. pipe with necessary coupling & buch, buried in specially prepared earth pit with G.I. earth wire of 8 SWG, erected & connected as directed	823.15	823.15
1.00	Each	97	Providing salt and charcoal/coke as required for pipe type earthing	171.70	171.70
0.50	KG	98	Providing & erecting required size Copper strip for earthing of LT panel board, using copper clamp	794.87	397.44
Total				2988009.00	

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

- 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.thereforeinR.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.

**Signature of
Contractor**

**Nodal Officer and Executive Engineer
Dam Safety Organisation
GERI, Vadodara**