

GUJARAT PAVITRA YATRADHAM VIKAS BOARD

NAME OF WORK :- SHREE MAHISAGAR MATA TEMPLE AT . DABKA , TA. PADRA ,DIST.VADODARA.

BILL OF QUANTITIES

Item	Description	Qty.	Unit	Rate	Amount
1	Clearing and grubbing road land including uprooting rank vegetation grass bushes,shrubs,sapling and trees girth up to 300 mm removal of stumps of trees cut earlier and disposal of unserviceable materials(A) By manual means in area of light jungle	0.50	Hec	82249.89	41124.95
2	Excavation requirement for gabion installation. Manually or by mechanical means complete in all respects. Preparation of levelled ground for placing gabions of the first layer as per mentioned in the specifications or as per instructions of Engineer in Charge.	1518.00	Cmt.	135.70	205992.60
3	Excavation for base footings upto depth 1.5 m. including sorting out and disposing of the excavated material upto 50 m lead (loose or soft soil)	46.00	Cmt.	120.01	5520.46
4	Excavation for foundation for depth from 1.5 m to 3.0 m including sorting out and stacking of useful materials and disposing of fthe excavated stuff upto 50 Meter lead.(A) Loose or soft soil	7.13	Cmt.	133.05	948.65
5	Boring with hydraulic piling rigs with power units, providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) : 450mm Dia	101.91	Mtr	3580.65	364904.04
7	Excavation for foundation in sand, gravel, clay soft soils and murrum etc. including shoring, strutting dewatering as necessary and disposing of the excavated stuff as directed.(A) Depth upto 3.0 M. and lead upto 100m for 10 Cum	906.50	Cmt	498.94	452289.11
8	Excavation for foundation in sand, gravel, clay soft soils and murrum etc. including shoring, strutting dewatering as necessary and disposing of the excavated stuff as directed.(B) Depth from 3.0 to 6.0 M.and lead upto 100m for 10 Cum	634.00	Cmt	585.366	371122.04
9	Excavation for foundation in sand, gravel, clay soft soils and murrum etc. including shoring, strutting dewatering as necessary and disposing of the excavated stuff as directed.(C) Depth from 6.0 to 9.0 M.and lead upto 100m	423.00	Cmt	645.683	273123.91
10	Carting lead For soil upto 5 km.	982.00	Cmt	103.262	101403.28

11	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.	1117.00	Cmt.	133.65	149287.05
12	Filling in foundation and plinth with murrum or selected soil in layers of 20cm thickness including watering, ramming and consolidating etc. complete.	13.00	Cmt.	296.29	3851.77
13	Filling in foundation and plinth with murrum or selected soil in layers of 20cm thickness including watering, ramming and consolidating etc. complete. (filling - Structural fill inside reinforced soil zone. As per MoRTH specifications and specifications provided.)	2695.00	Cmt.	296.29	798501.55
14	Providing & fixing BIS Certified and CE Marked Metal Gabions of 1.0m Length x 1.0m width x 1.0m height. The gabion box shall be indigenously manufactured as per required section and made of mechanically woven hexagonal shaped double twist wire mesh of 10x12 type, edges mechanically selvaged, wire shall be heavily (Zinc+PVC) coated G.I. wire with diameter 2.70/3.70 mm Ø (ID/OD), edge wire 3.40/4.40 mm Ø (ID/OD) and meeting the specifications of IS 16014:2018. The gabion boxes shall be filled with 150 to 250mm size hard stones whose loss angeles abbrasion value shall be less than 45 and meeting the requirements of IRC SP 116:2018 including conveying with all leads and lifts and placing at required places in required line, level, slope, section as directed, etc. and tied by 3% lacing wire 2.20/3.20 mm Ø (ID/OD) as directed by Engineer-in-charge. complete (Specification: IS 16014, MoRTH 2500). (Excluding cost of stone procurement)	742.50	Cmt.	1818.00	1349865.00
15	Providing & fixing BIS Certified and CE Marked Metal Gabions of 1.0m Length x 1.0m width x 0.50m height. The gabion box shall be indigenously manufactured as per required section and made of mechanically woven hexagonal shaped double twist wire mesh of 10x12 type, edges mechanically selvaged, wire shall be heavily (Zinc+PVC) coated G.I. wire with diameter 2.70/3.70 mm Ø (ID/OD), edge wire 3.40/4.40 mm Ø (ID/OD) and meeting the specifications of IS 16014:2018. The gabion boxes shall be filled with 150 to 250mm size hard stones whose loss angeles abbrasion value shall be less than 45 and meeting the requirements of IRC SP 116:2018 including conveying with all leads and lifts and placing at required places in required line, level, slope, section as directed, etc. and tied by 3% lacing wire 2.20/3.20 mm Ø (ID/OD) as directed by Engineer-in-charge. complete (Specification: IS 16014, MoRTH 2500). (Excluding cost of stone procurement)	1567.50	Cmt.	2020.00	3166350.00
16	Providing and laying CE Marked Needle Punched and Mechanically Bonded Non-Woven Geotextile PR 20 (MoRTH Type 2) of behind gabion units, indigenously manufactured from high quality polypropylene staple fibres installed on the prepared surface for separation, drainage & filtration application with necessary overlaps as per drawing etc. complete. (Specification: MORTH Section 700)	1347.50	Cmt.	90.90	122487.75

17	Providing, supplying, and placing black boulder stone rubble having 150 mm to 250 mm diameter for filling of gabion retaining wall units, including proper hand packing to minimize voids and ensure stability. The stones shall be hard, durable, durable and free from weathered or fractured pieces. The work includes fabrication, assembling, placing the gabion boxes in proper line and level, and use of gabion units below the foundation level as required, including transportation, loading, unloading, and filling of stones inside the gabion mesh units as per approved design and specifications. The item includes all labour, materials, tools, transportation, and incidental charges required to complete the work as directed by the Engineer-in-Charge or concerned authorities	2310.00	Cmt.	1232.47	2847005.70
18	Carring out plinth treatment to post construction / existing structure by spraying chemical solution for termite control treatment including labour and material consistment with I.S.I specification. Using Chlordene and Chiorpurfiles 20 EC. As Per 6131_paret-II Consentration 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 appication at the rate of 5 Litre chemical / Sqm of surface is recommended as per I.S	37.00	Smt	98.82	3656.34
19	Providing and laying cement concrete 1:3:6 (1 Cement, 3 coarse sand, 6 hand broken stone aggregates 20mm nominal size) and curing ecomplete excluding cost of formwork in (A) Foundation and Plinth.	111.00	Cmt	3080.9	341979.90
20	Providing and laying cement concrete 1:3:6 (1- Cement : 3- Coarse sand : 6- Graded brick bat aggregate 40mm normal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth	11.50	Cmt.	3060.65	35197.48
21	Providing and laying black boulder stone rubble for apron (each stone weighting not less than 40Kg.) including and packing and filing in the interestices with quarry-spalls.	363.50	Cmt	1067.075	387881.76
22	Providing and laying controlled cement concrete M 250 and curing complete including the cost of formwork but Excluding the cost of reinforcement for concrete work in .				
a	-- do -- for R.C.C. Column Footing	155.20	Cmt.	4384.92	680539.58
b	-- do -- for R.C.C. Column Up to pl	2.30	Cmt.	7493.19	17234.34
c	-- do -- for R.C.C. Column Super Structure	3.18	Cmt.	5992.33	19055.61
d	-- do -- for Wall	156.50	Cmt	6216.55	972890.08
e	-- do -- for Ground Beam	31.60	Cmt.	5684.28	179623.25
f	-- do -- for Coping	8.50	Cmt.	7880.02	66980.17
g	-- do -- for R.C.C. Lintel	1.70	Cmt.	7758.82	13189.99
h	-- do -- for R.C.C. Chhajja	0.90	Cmt.	6713.47	6042.12
i	-- do -- for R.C.C. Beam	5.40	Cmt.	6289.27	33962.06
j	-- do -- for R.C.C. Slab	6.70	Cmt.	6475.11	43383.24

k	-- do -- for R.C.C. Grade Slab	81.70	Cmt.	5866.08	479258.74
l	-- do -- for R.C.C. Stair	12.00	Cmt	9136.46	109637.52
23	Providing and supplying TMT Fe-550D bar steel reinforcement for R.C.C work including bending, binding and placing in position etc. complete	44420.00	Kg.	77.29	3433221.80
24	Brick work using common burnt building bricks having crushing strength not less than 35 Kg./cm ² in C.M. (1:6) (1 Cement, 6 fine sand) racking out joints curring etc. complete directed by Engineer-in-charge.	2.80	Cmt.	4121.55	11540.34
25	Brick work using common burnt building bricks having crushing strength not less than 35 Kg./cm ² in super structure for Ground Floor in C.M. (1:6) (1 Cement, 6 fine sand) racking out joints curring etc. complete directed by Engineer-in-charge.	23.00	Cmt.	4396.56	101120.88
26	Providing, laying and constructing half brick masonry work with conventional building bricks having crushing strength not less than 35 Kg./cm ² for super structure for G.F. in cement mortar (1:4) (1 Cement, 4 fine sand) including ranking out joints, curing scaffolding etc. complete.	19.70	Smt.	614.84	12112.35
27	Providing and fixing glazed louverd glass windows and ventilators with teakwood frame 10cm x 7cm size including the cost of oil painting to wood work etc. complete.	4.20	Smt.	4202.12	17648.90
28	Providing and fixing 35mm thick water proof flush door solid core single shutter on 18mm thk. granite stone frame with 1mm thick laminated sheet on both side of the shutter with teak wood frame of size 100mm X 65mm for door frame, Magnetic catcher triple strip vertical type(1 No),S.S. 304 tower bolt (barrel type) 300x10 mm (1 No) (Make : Define, Kich : TBF312S), Main door set 19mm dia mortise handle MAKE: DEFINE: Mortise handle (DF ESRH 01),(kich:Morties Handle-PRLH 193S) & 60mm X 85mm lock body with strike plate (DEFINE - Lock Body: DF-ML 100) (Kich : Lock body: PRMLB 9S), thumb turn cylinders 70mm (Kich : thumb turn cylinder: PRPCKN S70, Define : DF-OSK-70) and SS matt Hinges of 100mm X 65mm X 3.2mm (Make : Kich Item No.PRBT2B34 and Define Make - Item No. DF-BBH-04) with necessary fixtures and fastenings etc. complete as directed by Engineer-in-charge.	6.30	Smt.	5140.82	32387.17
29	Providing and fixing FRP frame size 100x50 mm and 28mm thick FRP depress panel shutter having extra reinforcement on sides & edges in Gel coat finish. The core of the shutter & frame is to be filled up with injected fire retardant grade 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 necessary screws & alluminium fixtures & fastenings & fastener sleeve.	26.80	Smt.	2377.76	63723.97

30	Providing, fabricating and fixing Stainless Steel Railing System of Grade SS 316 with matt/satin finish, comprising of vertical members (balusters) of 75mm x 75 mm box pipe with minimum 3 to 5 mm wall thickness, spaced at a maximum of 900 mm centre to centre or closer as required for structural stability, rigidly fixed over RCC surface/waist slab using SS 316 base plates 10 cm x 10 cm of minimum 9–10 mm thickness anchored with approved make anchor fasteners with suitable bolts and embedment, complete with SS cover caps; the railing shall include horizontal tie members (mid rails) of 35mm mm outer diameter with minimum 2–3 mm thickness, provided in 4 to 5 continuous parallel rows between vertical members and securely connected using stainless steel fixtures; the system shall be completed with a top handrail of 75mm x 75 mm box pipe with minimum 3 to 5 mm wall thickness,, properly aligned and curved as per stair profile; overall railing height shall be minimum 1000 mm or above from finished floor level; all joints shall be properly welded, ground, buffed and polished to achieve uniform finish, with internal bushings provided wherever required for additional strength; the work shall include all	106.00	Rmt.	4040.00	428240.00
31	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 :4-sand) finishing with a floating coat of neat cement slurry.	159.70	Smt.	192.41	30727.88
32	Providing 10mm thick cement plaster in single coat on brick/concrete walls for interior plastering upto floor two level and finished even and smooth in (ii) Cement mortar 1:4 (1-cement :4-sand) finishing with a floating coat of neat cement slurry.	44.10	Smt.	199.92	8816.47
33	Providing 20 mm thick double coat mala cement plaster on interior brick / concrete work for plastering comprising of base coat of 12 mm thick cement plaster in cement mortar (1 Cement : 4 coarse sand) in rough finishing and 8 mm thick top coat of cement mortar 1:2 (1 Cement : 2 Coarse sand) finished with trowel including scaffolding curing etc. complete.	150.00	Smt	277.18	41577.00
34	Providing and Laying 20 mm thick sand face cement plaster on Walls upto height of 10 mts. Above ground level consisting of 12mm thick backing coat of C.M 1:3 (1 Cement, 3 Sand) and 8 mm thick finishing coat of C.M 1:1 (1 Cement, 1 Sand) etc. complete.	97.90	Smt.	337.52	33043.21
35	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.	204.00	Smt.	40.59	8280.36
36	Distemping (Three Coat) with oil bound washable distemper of approved brand and manufacture and of required shade on wall surfaces to give an even shade over and including a primer coat with alkali resistance primer of approved brand after thoroughly brushing the surface to give an even shade free from foreign matter and also including preparing the surface even and smooth.	204.00	Smt.	101.75	20757.00

37	Finishing wall with Weather Proof Exterior Emulsion Paint on wall surface (two coat) to give an even shade and of approved brand and manufacture including thoroughly brooming and brushing the surface to remove all dirt, and remains of loose powdered material.	150.00	Smt	117.40	17610.00
38	Finishing wall with water proofing cement paint of on wall surfaces (Two coats) to give an approved brand and manufacture and of required shape even shade after thoroughly brushing the surface to remove all dirt and remains of loose powdered materials.	98.00	Smt.	59.53	5833.94
39	Providing and laying white glazed tiles 6 mm thick in flooring, treads of steps and landing laid on bed of 12 mm thick cement mortar 1:3 (1 Cement : 3 Coarse Sand) finished with flush pointing in white cement.	31.90	Smt.	939.18	29959.84
40	Providing and laying white glazed tiles 6 mm thick in skirting risers of steps and dado on 10 mm cement plaster 1:3 (1 Cement : 3 Coarse Sand) and pointing in white cement jointed with white cement slurry.	58.90	Smt.	970.17	57143.01
41	Providing and laying polished kota stone slab 25 mm thick in risers of steps, skirting Dado and pillars laid on 10 mm 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 & Groove cutting etc. complete.	218.30	Smt.	1149.52	250940.22
42	Providing and laying polished kota stone slab flooring over 20 mm (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 & Groove cutting etc. complete. (A) 25 mm thick.	145.00	Smt	1001.14	145165.30
43	Providing and laying broken china mosaic flooring for terrace using 12 mm to 20 mm broken pieces of glazed tiles to be laid over cement mortar 1:3 to plain or slope and to be tempered to bring mortar cream 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.	38.50	Smt.	765.97	29489.85
44	Providing and fixing to wall ceiling and floor 10.0 Kg. F/Cm2 working pressure polythene pipes of the following outside Dia. Low density, complete with special flange compression type fittings, wall clip etc. including making good the wall ceiling and floor. (110mm)	14.80	Rmt.	339.05	5017.94
45	Providing erecting and fixing double coated ISI water tank of required capacity each with all necessary fitting and connection etc. complete on terrace	2000.00	Ltr.	3.95	7900.00
46	Providing and fixing wash down water closet (Indian Type W.C. Pan) size 580mm with Vitreous China 100mm size integral P or S trap including jointing the trap with soil pipe in cement mortar 1:1 (1 cement : 1 fine sand). Rates including Providing and fixing in cement mortar 1:3 (1 cement : 3 fine sand) a pair of white vitreous china 250mm x 130mm x 30mm footrest to long pattern squatting pan water closet and 25mm dia chromium plates brass half turn flush cock of approved quality etc. complete as directed.	2.00	Each	1681.65	3363.30

47	Providing and fixing wash down water closet (European type W.C. Pan) with integral P or S trap including jointing the trap with soil pipe in cement mortar 1:1 (1 cement : 1 fine sand). Rates including providing and fixing plastic seat cover with C.P. brass hinges and rubber buffers, Jet spray heavy duty with S.S. braided hose 60 cm long and 25mm dia chromium plates brass half turn flush cock of approved quality etc. complete as directed.	3.00	Each	2200.79	6602.37
48	Providing and fixing 430mm x 260mm x 350mm size white earthen ware flat back or corner type urinal of approved quality including. 15mm Dia Stop Tap and Necessary Connections the urinal with waste pipe etc. complete.	3.00	Each	1268.56	3805.68
49	Providing and fixing white vitreous china flat back wash basin of 550mm x 400mm size with single hole for pillar tap with C.I. or M.S. brackets painted white including cutting holes and making good the same. Rates including providing and fixing 32mm dia C.P. Brass waste couplin, 32mm dia M.I. Fisher unit, Brass screw down stop tap of 15mm dia pillar tap capstan head, screw down high pressure with screws, shanks, back nuts, PVC pipe & 32mm dia flexible waste pipe up to Nani Trap etc. complete as directed by engineer in charge.	4.00	Each	2078.58	8314.32
50	Providing and fixing screw down bib taps of following size.(A)Brass screw down bib tap polished bright.(i)15mm dia..	10.00	Each	186.83	1868.30
51	Providing and fixing screw down bib taps of following size.(B) Brass chromium plated screws down Bib Tap .(i) 15mm dia.	5.00	Each	186.83	934.15
52	Providing and fixing gun metal chek or non return fullway wheel valve. (A) 15 mm Dia	3.00	Each	186.83	560.49
53	Providing and fixing C.P. brass towel rail complete with C.P. brass brackets fixed to wooden pluges with C.P. brass screws (B) 600 mm x 20 mm size.	3.00	Each	616.42	1849.26
54	Providing and fixing toilet paper holder (A) C.P. brass.	5.00	Each	427.99	2139.95
55	Providing and fixing 100 mm dia sand cast iron grating for gully, floor or nanhi trap.	9.00	Each	36.98	332.82
56	Providing and fixing Cast Iron (Spun nahni trap of the 100mm. Inlet and 50mm. Dia outlet having self cleaning design with C. I. Screwed down or hinged grating and stainless steel jali at F.F.I. Including cost of making cuts in walls slab floor etc. and making them as per original testing etc. complete as directed by Engineer-in-charge.	9.00	Each	631.02	5679.18
57	Providing and fixing 150mm x 100mm size "P" or "S" type square mount stone ware gully trap with c. I. Grating brick masonry chamber and water tight C. I. Cover with frame of inside 300mm x 300mm size with cutting and making good the walls floors etc. complete as directed by Engineer-in-charge.	6.00	Each	1246.92	7481.52

58	Providing, laying and constructing brick masonry chamber for underground C. I. Inspection Chamber with Inside Dimension 600mm x 850mm x 450mm dedo for single pipe line with bends having crushing strength not less than 35Kg./Cm2 on C. M. (1:5) (1 cement, 5 Sand) C. I. Cover with frame (light duty) of 455mm x 610mm internal dimension total weight of cover with frame to be not less than 38.00 Kgs. (Wt. of Cover 23 Kgs. and wt. of Frame 15 Kgs.) with R.C.C. top slab with 1:2:4 (1 cement, 2 Coarse sand, 4 graded stone (Kapachi)) foundation concrete 1:5:10 (1 cement, 5 Coarse sand, 10 brick bats of 40mm nominal size) inside plaster 15mm. thick with C. M. 1:3 (1 cement, 3 Coarse sand) finished smooth with a floating coat of neat cement slurry on walls and bed concrete including curing etc. complete as directed by Engineer-in-charge.	3.00	Each	7180.44	21541.32
59	Providing and laying (To level or slopes) and jointing with stiff mixture of cement mortar in proportion 1:1 salt glazed stone ware pipes including testing of pipes and joint complete. (B) 150 mm Dia	50.00	Rmt.	312.76	15638.00
60	Providing and fixing 600 mm x 450 mm bevelled edge mirror of superior glass mounted on 6 mm thick A.C Sheets or plywood sheet and fixing to wooden pluge with c.p brass screws and wasers.	3.00	Each	854.58	2563.74
61	Providing, laying and jointing in true line and level 32 mm dia U.P.V.C. Pipe (SCH-40) including fittings make as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two meter 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.	350.00	Rmt.	119.15	41702.50
62	Providing, laying and jointing in true line and level 25 mm dia U.P.V.C. Pipe (SCH-40) including fittings make as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two meter 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.	25.00	Rmt.	91.84	2296.00
63	Providing, laying and jointing in true line and level 15 mm dia U.P.V.C. Pipe (SCH-40) including fittings make as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two meter 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.	15.00	Rmt.	72.65	1089.75
64	Providing and fixing 15mm. Dia C. P. Brass screw down bib cock of approved quality including fixing the same in pipeline and testing etc. complete as directed by Engineer-in-charge.	10.00	Nos	186.86	1868.60
65	Providing and fixing 15mm. Dia C. P. Brass stop cock of approved quality including fixing the same in pipeline and testing etc. complete as directed by Engineer-in-charge.	8.00	Nos	205.83	1646.64
66	Providing and fixing gun metal chek or non return fullway wheel valve. (A) 25 mm Dia.	3.00	Nos	420.63	1261.89

67	Providing and constructing SOAK WELL of 2.50m internal dia and 6.00 depth internal clear dimension including the cost of excavation, PCC 1:4:8 foundation for honey combed masonry in C.M. 1:4 (1cement : 4 sand), casting R.C.C. 1:2:4 (1cement: 2 sand: 4 graded stone aggregate 20mm nominal size) top slab 12 thick with C.I. manhole cover 600mm x 450mm size of 35 kg. weight and 75mm dia C.I. pipe 1800mm long with 75mm dia cowel vent and filling the wall 1000mm in depth with dry brick bats including providing vata in C.M. 1:3 (1cement: 3 sand), curing including cost of reinforcement etc. complete as per detailed drawing and directed by E.I.C	1.00	Nos	42854.47	42854.47
68	Construction Septic tank Inside dimension of 4.00 m in length & 2.50 m in width & 2.00 m depth Including excavating any type of soil as shown and mentioned in the drawing, providing and laying 0.10 m thick plain cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone agg.) 40 mm thick IPS flooring at bottom with brick masonry 0.23 m thick walls CM 1:5 (1 cement: 5 coarse sand) and intermediate partition CM 1:4 & RCC Top slabs 12 cms thick in 1:2:4 (1 cement: 2 coarse sand: 4 graded stone agg) including reinforcement as per design and 15 mm thick cement plaster in CM 1:4 with floating coat of neat cement slurry Inside, top and around tank below 15 cm on ground level, Also provide Two nos CI Manhole frame and cover of size 60 cm x 45 cm & 75 mm dia. PVC 10 kgf/Sq cm pressure air vent pipe in 3.00 length with cowl etc complete as per direction of Engineer in charge.	1.00	Nos	69538.25	69538.25
69	S.S.box type letters:-The Signage letters shall be in Gujarati / English of following sizes. Signage(a)Box type metal letters forming composite box made from 1mm thick stainless steel plate of grade 304 having brush finish/as required of following font size to be fixed at various structures in english and or Gujarati . 125mm high	35.00	Nos	314.11	10993.85
70	Interior Signage- Laser Cut Sign Board :Providing & fixing approved stainless steel laser cut display signage panel/ board on building at all levels and heights in form of letters/ numbers/ symbol/ logo, for Address/ Information / designation of person/officer as per details. The Signage letters language shall be in Gujarati/Hindi/English and of any sizes, color and width / height/ length. The plate shall be atleast 50mm extra on all sides of the letters for large size signages and Min. 25mm for all Small size signages to be placed within the building, including cutting, finishing, fixtures and fittings.	3.50	Smt.	13736	48076.00
71	Providing & Fixing Granite "Takti" of size 0.75 x 0.90mt. with palment & roller curtain with using 20mm thic black granite with computerised golden colour letteing fixng in wall with teakwood decorative 0.07 x 0.03 cms size bettern pattin and palment will be made by 18mm thick plywood with 4mm thick viniar wit teakwood bettern patti with approved febric roller bling with necessary fixture & fastening of polishing work etc complete	1.00	Nos.	18786	18786.00
72	Providing & laying weep hole in Aburtments, and returns by using A.C. pipe of 100mm including laying in proper grede and jointing the completed as per detailed specification.	150.00	Each	84.63	12694.50

73	Cautionary Warning Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 90 x 90 x 90 cms. equilateral triangle as per design of IRC-67-2012. Pre treated with phosphating process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T. Specifications; 3.6mtr longstand post of 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 foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of 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 10 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. (A) Class-C Type-11 Retro Reflective sheeting	2.00	Nos	5077.27	10154.54
74	Facility Informatory Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 80 x 60 cms rectangular as per design of IRC-67-2012. Pre treated with phosphating process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.6mtr long stand post of 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 foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of 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 10 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. (A) Class-C Type-11 Retro Reflective sheeting	2.00	Nos	5906.48	11812.96

75	<p>Direction (Junction) Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 244x122 cms. rectangular as per design of IRC-67-2012. Pre treated with phosphating 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 (2 Nos.) 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 50x50x5mm; 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</p>	1.00	Nos	21287.51	21287.51
76	<p>Providing and Constructing coffer dam (Assume Size 4.50 x 4.50) in River basin including excavation, filling, middle portion with B.C. soil (in empty cement / Gunny Bags) to the entire satisfaction of E.I.C. Till completion of work. Sand brought from outside with Dismanteling of coffer dam (Sand Bags) after completion of the work with Earthwork for embankment including breaking clods dressing with all lead and lift for Approach Portion (excluding watering and consolidation). Borrow From Any Lead including Dewatering by pumping set of required capacity including temporary platform, carting, pumping at site and fixing the same in position including all accessories and fuel and labour etc. complete</p>	2140.00	Cum	685.79	1467590.60
77	<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. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III</p>	10.00	pt	449.45	4494.50

78	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. Note:- Maximum up to 6 mtrs length, excess will be considered as Mains for Secondary Point. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete	5.00	pt	151.50	757.50
79	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 [I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard/mcb db board (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete	3.00	pt	473.69	1421.07
80	[II] For 16A Plug and 16 amp switch with 2-2.5 sq.mm Cu. Wire from mcb db board. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III	1.00	pt	697.91	697.91
81	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 Cat. III	3.00	pt	241.39	724.17
82	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge.				
82.1	One No. SP 6 Amp. Cat.III	2.00	Ea	144.43	288.86
82.2	One No 5 pin plug Cat.III	2.00	Ea	144.43	288.86
82.3	16 Amp. SP one way switch Cat.III	2.00	Ea	172.71	345.42
82.4	6/16Amp. Universal socket Cat.III	2.00	Ea	190.89	381.78
83	Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm	35.00	Mtr	32.32	1131.20
84	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 concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (A) With medium class Rigid PVC pipe and accessories				

a	2 wire 1.5 sq. mm	35.00	Mtr	59.59	2085.65
b	2 wire 2.5 sq. mm	35.00	Mtr	78.78	2757.30
85	Supplying & erecting M.S. Box having 16 Gauge painted with red oxide or Heavy duty PVC box erected flushed on wall or concealed in wall with necessary plastering & finishing as directed of following size. (b) 175 mm x 100 mm x 75 mm(d)	1.00	No	73.73	73.73
86	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				
	(iv)12 way	1.00	Ea	3874.36	3874.36
	(iii)8 way	1.00	Ea	3412.79	3412.79
87	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	1.00	Ea	112.11	112.11
88	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity				
a	6 to 32 Amp. Cat.III	1.00	Ea	595.90	595.90
b	40 Amp. Cat.III	1.00	Ea	668.62	668.62
c	63 Amp. Cat.III	1.00	Ea	737.30	737.30
89	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				
	(i) 25 Amps.DP Cat. III	1.00	Ea	1969.50	1969.50
	(ii) 40Amps. DP Cat. III	1.00	Ea	2235.13	2235.13
90	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 [b] For 4 Pole	1.00	Ea	446.42	446.42
91	Providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on 3 phase and neutral 415V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max. rating erected as directed. [f] 63A, 4 pole Three Phase Cat. II	1.00	Ea	2834.06	2834.06

92	Supplying and erecting triple pole & neutral 440V/ 500V panel mounting Aluminium Busbars with four equal Nos. of bus having current density not more than 0.8 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each busbar,erected in existing cubical panel with necessary connections. (D) Suitable for 400 Amp. Capacity	1.00	Ea	2204.83	2204.83
93	Providing and erecting required size Aluminium strip for earthing of H.T. , OCB / ACB / Transformer, LT panel board, Motors etc. using copper clamp.	5.00	Kg	225.23	1126.15
94	Supplying & erecting earth pit of minimum bore dia.150mm size approved make Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 50mm having 80-200 Micron galvanising, Inner pipe dia of 25 mm having 200-250 Micron galvanising, connection terminal dia of 12mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover. (A)(approved make OEM has to submit test certificate including value of earth resistance of installation duly stamped and signed by agency and officer Incharge has to ensure the value of earthing resistane mentioned in test Certificate) & having back filling compound of (B) Inner chemical (CCM Compound)- Resistivity:- 0.2 ohm / meter testing as per IEC 62561-2017, Voltage drop:- < 1 volt at no load & dry form, Sulphar content:- <2%(C) Back fill Compound :- Earthing compound should be capable to retain moisture for long time Necessary test report must be submitted by Agency. (c) For Electrical Installation covering Transformer Neutrals, Lightning arrester Earthing, A.C.Plant & Sensitive Computer System(like Automation, SCADA) i.e independent Earthing in normal soil. Length of Pipe : 3.00 mtrs Back filling Compound :2 nos Bags of 25 Kg.	1.00	Ea	8636.51	8636.51
95	Providing & erecting 415 V MCB three 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	1.00	Ea	647.41	647.41
96	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables				
c	3 1/2 core 50 Sq. mm (25 Sq.1/2 mm core)	20.00	Mtr	281.79	5635.80
d	3 1/2 core 70 Sq. mm (35 Sq. mm 1/2 core)	30.00	Mtr	372.69	11180.70
97	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand / Solid Copper conductor for 1.1 KV. 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 6 Sq. mm	25.00	Mtr	508.03	12700.75

98	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Copper conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe at road crossing or floor of following size of cables. (A) 4 core 10 Sq. mm	15.00	Mtr	673.67	10105.05
99	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand / Solid Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (B) 4 core 6 Sq. mm	15.00	Mtr	124.23	1863.45
100	Providing & laying approved make Double walled corrugated pipes (DWC) of polyethylene(conforming to IS 14930 II)with necessary connecting accessories of same material at required depth in existing trench for laying of cable. below ground / road surface for enclosing cable (A)50 mm outer dia	50.00	Mtr	62.62	3131.00
101	Supplying & erecting single phase approved make industrial exhaust fan suitable for medium duty ring mounted low noise operation suitable for medium duty having following dia size and maximum speed in RPM [A] 305 mm dia 900 RPM	3.00	Ea	2054.34	6163.02
102	Providing suitable M.S. louver shutter of the Exhaust fan.	3.00	Ea	434.30	1302.90

103	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				
	(ii) 11-15 watts, Surge-2 KV Cat-III	10.00	Ea	427.23	4272.30
	(i) 5-9 watts, Surge-2 KV Cat-III	5.00	Ea	220.18	1100.90
		Total Rs.			20385338.15

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 _____
Deduct.....% below _____
Net _____
In words. _____

Estimated amount put to tender _____
Add.....% Above _____
Net _____
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. 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.