

NAME OF WORK: SHREEMAHISAGAR MATA TEMPLE, DABKA, TA. PADRA, DIST. VADODARA

Index -Civil Specification Sor based

Item No.	Item Description	Unit	ItemAs perGeneral Technical	
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	Hec.	Ch-26,ItemCode:26117A	Refer GeneralTechnical specification
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.	Cmt.	Separate sheet attached	
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)	Cmt.	Ch-04,ItemCode:04001A	Refer GeneralTechnical specification
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 the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	Cmt.	Ch-04,ItemCode:04002A	Refer GeneralTechnical specification
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	Mtr	CPWD-20 ItemCode:20.3.3	Refer GeneralTechni cal specification

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	Cmt	Ch-27,Item Code:27007 A	Refer GeneralTechni cal specification
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	Cmt.	Ch-27,Item Code:27007 B	Refer GeneralTechni cal specification
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	Cmt.	Ch-27,Item Code:27007 C	Refer GeneralTechni cal specification
10	Carting lead For soil upto 5 km.	Cmt.	Ch- 05,ItemCode:5.3.2.1 A	Refer GeneralTechni cal specification
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.	Cmt	Ch- 04,ItemCode :4006	Refer GeneralTechni cal specification
12	Filling in foundation and plinth with murrum or selected soil in layers of 20cm thickness including watering, ramming and consolidating etc. complete.	Cmt.	Ch- 04,ItemCode :4008A	Refer GeneralTechni cal specification
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.)	Cmt.	Ch- 04,ItemCode :4008	Refer GeneralTechni cal specification
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	Cmt.	Separate sheet attached	

	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)		
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)	Cmt.	Separate sheet attached
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)	Cmt	Separate sheet attached
17	Providing, supplying, and placing Black Boulder rubble stones having 150 mm to 250 mm Size for filling of gabion retaining wall units, including proper hand packing to minimize voids and ensure stability. The stones shall be hard, durable,	Cmt.	Separate sheet attached

	<p>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</p>			
18	<p>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 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 appication at the rate of 5 Litre chemical / Sqm of surface is recommended as per I.S</p>	smt.	Ch-22,ItemCode:22007	Refer GeneralTechni cal specification
19	<p>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.</p>	Cmt.	Ch-5,ItemCode:05007A	Refer GeneralTechni cal specification
20	<p>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</p>	Cmt.	Ch-5,ItemCode:5003.5.3.2	Refer GeneralTechni cal specification
21	<p>Providing and laying Black Boulder rubble stone for apron (each stone weighting not less than 40Kg.) including and packing and filing in the interestices with quarry-spalls.</p>	Cmt.	Ch-27,ItemCode:27015A	Refer GeneralTechni cal specification
22	<p>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 .</p>	Cmt	Separate sheet attached	
A	<p>-- do -- for R.C.C. Column Footing</p>	Cmt	Separate sheet attached	

B	-- do -- for R.C.C. Column Up to pl	Cmt	Separate sheet attached
C	-- do -- for R.C.C. Column Super Structure	Cmt	Separate sheet attached
D	-- do -- for Wall	Cmt	Separate sheet attached
E	-- do -- for Ground Beam	Cmt	Separate sheet attached
F	-- do -- for Coping	Cmt.	Separate sheet attached
G	-- do -- for Plinth Beam	Cmt	Separate sheet attached
H	-- do -- for R.C.C. Lintel	Cmt	Separate sheet attached
I	-- do -- for R.C.C. Chhajja	Cmt	Separate sheet attached
J	-- do -- for R.C.C. Beam	Cmt	Separate sheet attached
K	-- do -- for R.C.C. Slab	Cmt	Separate sheet attached

L	-- do -- for R.C.C. Grade Slab	Cmt	Separate sheet attached	
M	-- do -- for R.C.C. Stair	Cmt	Separate sheet attached	
23	Providing and supplying TMT Fe-550D bar steel reinforcement for R.C.C work including bending, binding and placing in position etc. complete	Kgs.	Ch-05,ItemCode :05014C	Refer General Technical specification
24	Brick work using common burnt building bricks having crushing strngth not less than 35 Kg./cm2 in C.M. (1:6) (1 Cement, 6 fine sand) racking out joints curring etc. complete directed by Engineer-in-charge.	Cmt.	Ch-06,ItemCode :06002BA	Refer General Technical specification
25	Brick work using common burnt building bricks having crushing strngth not less than 35 Kg./cm2 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.	Cmt	Ch-06,ItemCode :06002BA+06006C	Refer General Technical specification
26	Providing, laying and constructing half brick masonry work with conventional building bricks having crushing strength not less that 35 Kg./Cm2 for super structure for G.F. in cement mortar (1:4) (1 Cement, 4 fine sand) including ranking out joints, curing scaffolding etc. complete.	Smt	Ch-06,ItemCode :06008A2	Refer General Technical specification
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.	Smt.	Ch-10,ItemCode :10029AA	Refer General Technical specification
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 -	Smt	Ch-10,ItemCode :10011	Refer General Technical specification

	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.PRBHT2B34 and Define Make - Item No. DF-BBH-04) with necessary fixtures and fastenings etc. complete as directed by Engineer-in-charge.			
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 filed 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.	Smt.	Ch-10,ItemCode:10037	Refer GeneralTechni cal specification
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 necessary stainless steel accessories such as fasteners, bolts, connectors, brackets, base cover caps, etc., and complete installation with all labour, materials, tools & tackles at all levels and heights as per drawings and instructions of Engineer-in-charge, ensuring a rigid, durable and aesthetically finished railing system.	Rmt	Ch-11,ItemCode :11002AA	Refer GeneralTechni cal specification
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.	Smt.	Ch-17,ItemCode :17002A	Refer GeneralTechni cal specification

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.	Smt.	Ch-17,ItemCode :17001B+17004A+17008	Refer General Technical specification
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.	Smt.	Ch-17,ItemCode :17017	Refer General Technical specification
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.	Smt.	Ch-17,ItemCode :17009	Refer General Technical specification
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.	Smt	Ch-19.ItemCode :19032	Refer General Technical specification
36	Distempering (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.	Smt.	Ch-18,ItemCode :18021+18023	Refer General Technical specification
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.	Smt.	Ch-19,ItemCode :19031	Refer General Technical specification
38	Finishing wall with water proofing cement paint of on wall surfaces (Two coats) to give an approved brand and manufacture and of required shade even shade after thoroughly brushing the surface to remove all dirt and remains of loose powdered materials.	Smt.	Ch-19,ItemCode :19031	Refer General Technical specification

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.	Smt.	Ch-14,ItemCode :14008AA	Refer GeneralTechni cal specification
40	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 slurry.	Smt.	Ch-14,ItemCode :14009AA	Refer GeneralTechni cal specification
41	Providing and laying polished kota stone slab 25 mm thick in risers of steps, skirting Dedo and pillars laid on 10 mm thick cement mortar 1 : 3 (1 cement : 3 course sand) and jointed with gray cement slurry mixed with pigment to match the shade of slab including rubbing and polishing & Groove cutting etc. complete.	Smt.	Ch-14,ItemCode :14013	Refer GeneralTechni cal specification
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.	Smt.	Ch-14,ItemCode :14013A	Refer GeneralTechni cal specification
43	Providing and laying broken chine 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 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.	Smt.	Ch-14,ItemCode :14035	Refer GeneralTechni cal specification
44	Providing and fixing to wall ceiling and floor 10.0 Kg. F/Cm2working pressure poluthene pipes of the following outside Dia.Low densidy, complete with special falnge compression typefittings, wall clipsetc. including making good the wall ceiling andfloor. (110mm)	Rmt.	Ch-23,ItemCode :23004G	Refer GeneralTechni cal specification
45	Providing erecting and fixing double coated ISI water tank of required capacity each with all necessary fitting sand connection etc. complete on terrace	Lit.	Ch-22,ItemCode :22014	Refer GeneralTechni cal specification

46	Providing and fixing wash down water closet (Indian Type W.C. Pan) size 580mm with Viterous 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 viterous 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.	Each	Separate sheet attached	
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.	Each.	Separate sheet attached	
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.	Each	Separate sheet attached	
49	Providing and fixing white viterous china flat back wash basin of 550mm x 400mm size with single hole for pillar tape 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.	Each	Separate sheet attached	
50	Providing and fixing screw down bib taps of following size.(A)Brass screw down bib tap polished bright.(i)15mm dia..	Each	Ch-23,ItemCode :23028A1	Refer GeneralTechni cal specification
51	Providing and fixing screw down bib taps of following size.(B) Brass chromium plated screws down Bib Tap .(i) 15mm dia.	Each	Ch-23,ItemCode :23028B1	Refer GeneralTechni cal specification
52	Providing and fixing gun metal chek or non return fullway wheel valve. (A) 15 mm Dia	Each	Ch-	Refer

			23,ItemCode :23031A	GeneralTechni cal specification
53	Providing and fixing C.P. brass towel rail complete with C.P. brass brackets fixed to wooden plugs with C.P. brass screws (B) 600 mm x 20 mm size.	Each	Ch- 23,ItemCode :23025	Refer GeneralTechni cal specification
54	Providing and fixing toilet paper holder (A) C.P. brass.	Each	Ch- 23,ItemCode :23027	Refer GeneralTechni cal specification
55	Providing and fixing 100 mm dia sand cast iron grating for gully, floor or nanhi trap.	Each	Ch- 23,ItemCode :23022	Refer GeneralTechni cal specification
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.	Each	Ch- 23,ItemCode :23008	Refer GeneralTechni cal specification
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.	Each	Ch- 24,ItemCode :24006B	Refer GeneralTechni cal specification
58	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.	Each	Ch-23, ItemCode:2 3008	Refer GeneralTechni cal specification
59	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.	Each	Ch-24, ItemCode:2 4006B	Refer GeneralTechni cal

				specification
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.	Each	Ch-24,ItemCode :24016CA	Refer GeneralTechni cal specification
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	Rmt.	Ch-24,ItemCode :24001BA	Refer GeneralTechni cal specification
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.	Each.	Ch-23,ItemCode :23024	Refer GeneralTechni cal specification
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.	Rmt.	Ch-23,ItemCode :23063	Refer GeneralTechni cal specification
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.	Rmt.	Ch-23,ItemCode :23062	Refer GeneralTechni cal specification

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.	Rmt.	Ch-23,ItemCode :23061	Refer General Technical specification
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.	Nos.	Ch-23,ItemCode :23028A1	Refer General Technical specification
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.	Nos.	Ch-23,ItemCode :23030A	Refer General Technical specification
66	Providing and fixing gun metal chek or non return fullway wheel valve. (A) 25 mm Dia.	Nos.	Ch-23,ItemCode :23031C	Refer General Technical specification
67	Providing and constructing SOAK WELL of 2.50m internal dia and 6.00 depth depth internal clear dimention 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	Nos.	Separate sheet attached	
68	Construction Septic tank Inside dimention 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	Nos.	Separate sheet attached	

	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.			
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 Gujrati . 125mm high	Nos.	Separate sheet attached	
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.	Smt.	Separate sheet attached	
71	Providing & Fixing Granite "Takti" of size0.75 x 0.90mt. with palment & roller curtain with using 20mm thic black granite withcomputerised 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	Nos.	Separate sheet attached	
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.	Each.	Ch-27,ItemCode :27050A	Refer GeneralTechni cal specification
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 phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro	Nos.	Ch-26,ItemCode :26093C	Refer GeneralTechni cal specification

	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			
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 phospheting 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	Nos.	Ch-26,ItemCode :26093C	Refer GeneralTechni cal specification
75	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 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 (2 Nos.) long stand post of Iron Angle 75 x 75 x	Nos.	Ch-26,ItemCode :26098B	Refer GeneralTechni cal specification

	6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50x50x5mm; painted with best quality 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 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 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			
76	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 Dismantling 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	Cum	Separate sheet attached	
77	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	pt	Ele SOR Item code-1.2.1	Refer General Technical specification
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	pt	Ele SOR Item code-1.2.1	Refer General Technical specification

	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			
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	pt	Ele SOR Item code-1.2.3	Refer General Technical specification
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	pt	Ele SOR Item code-1.2.3	Refer General Technical specification
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	pt	Ele SOR Item code-1.2.3	Refer General Technical specification
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	Ea	Ele SOR Item code-1.2.4	Refer General Technical specification
82. 2	One No 5 pin plug Cat.III	Ea	Ele SOR Item code-1.2.4	Refer General Technical specification
82. 3	16 Amp. SP one way switch Cat.III	Ea	Ele SOR Item code-1.2.4	Refer General Technical specification

82. 4	6/16Amp. Universal socket Cat.III	Ea	Ele SOR Item code-1.2.4	Refer General Technical specification
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	Mtr.	Ele SOR Item code-1.3.2	Refer General Technical specification
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	Mtr.	Ele SOR Item code-1.4.1	Refer General Technical specification
A	2 wire 1.5 sq. mm	Mtr.	Ele SOR Item code-1.4.1	Refer General Technical specification
B	2 wire 2.5 sq. mm	Mtr.	Ele SOR Item code-1.4.1	Refer General Technical specification
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)	No.	Ele SOR Item code-1.5.1	Refer General Technical specification
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	Ea	Ele SOR Item code-3.11.5	Refer General Technical specification
	(iii)8 way	Ea	Ele SOR Item code-3.11.5	Refer General Technical specification

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	Ea	Ele SOR Item code-3.10.1(B)	Refer General Technical specification
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	Ea	Ele SOR Item code-3.11.5	Refer General Technical specification
A	6 to 32 Amp. Cat.III	Ea	Ele SOR Item code-3.11.5	Refer General Technical specification
B	40 Amp. Cat.III	Ea	Ele SOR Item code-3.11.5	Refer General Technical specification
C	63 Amp. Cat.III	Ea	Ele SOR Item code-3.11.5	Refer General Technical specification
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	Ea	Ele SOR Item code-3.12.1	Refer General Technical specification
(i)	25 Amps.DP Cat. III	Ea	Ele SOR Item code-3.12.1	Refer General Technical specification
(ii)	40Amps. DP Cat. III	Ea	Ele SOR Item code-3.12.1	Refer General Technical specification
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	Ea	Ele SOR Item code-3.12.4	Refer General Technical specification

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	Ea	Ele SOR Item code-3.12.3	Refer General Technical specification
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	Ea	Ele SOR Item code-3.8.1	Refer General Technical specification
93	Providing and erecting required size Aluminium strip for earthing of H.T. , OCB / ACB / Transformer, LT panel board, Motors etc. using copper clamp.	Kg	Ele SOR Item code-3.14.1	Refer General Technical specification
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	Ea	Ele SOR Item code-3.14.9	Refer General Technical specification

	independent Earthing in normal soil. Length of Pipe : 3.00 mtrs Back filling Compound :2 nos Bags of 25 Kg."			
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	Ea	Ele SOR Item code-3.10.6	Refer General Technical specification
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	Mtr	Ele SOR Item code-4.3.3	Refer General Technical specification
C	3 1/2 core 50 Sq. mm (25 Sq.1/2 mm core)	Mtr	Ele SOR Item code-4.3.3	Refer General Technical specification
D	3 1/2 core 70 Sq. mm (35 Sq. mm 1/2 core)	Mtr	Ele SOR Item code-4.3.3	Refer General Technical specification
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	Mtr	Ele SOR Item code-4.4.4	Refer General Technical specification
98	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	Mtr	Ele SOR Item code-4.4.5	Refer General Technical specification
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	Mtr	Ele SOR Item code-4.3.5	Refer General Technical specification
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	Mtr	Ele SOR Item code-4.5.8	Refer General Technical specification

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	Ea	Ele SOR Item code-5.3.4	Refer General Technical specification
102	Providing suitable M.S. louver shutter of the Exhaust fan.	Ea	Ele SOR Item code-5.3.5	Refer General Technical specification
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 in charge 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	Ea	Ele SOR Item code-2.15.3	Refer General Technical specification
	(ii) 11-15 watts, Surge-2 KV Cat-III.	Ea	Ele SOR Item code-2.15.3	Refer General Technical specification
	(i) 5-9 watts, Surge-2 KV Cat-III.	Ea	Ele SOR Item code-2.15.3	Refer General Technical specification