

**Name of Work :- Construction of CLINIC - ANIMAL HUSBANDRY at Sidhpur, Ta. Sidhpur, Dist. Patan**

### Index to Specification

Item No.	Item of Work	Specification No. as per General Technical Specification book approved by R. & B. Department for Building uploaded herewith		Remarks
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1	Demolition of Various Building upto Footing and removal or disposal of all Debris, stacking of serviceable materials & disposal of unserviceable materials with all required lead and lift.	Separate Sheet Attached		
2	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	Separate Sheet Attached		
3	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.	Bldg. 20.11(II)	130	
4	Excavation for foundation upto 1.50 mt depth including sorting out and stacking of useful materials and disposing the excavated stuff with all lead (A) Loose or soft soil	Bldg. 4.0.0(A)	22	
5	Excavation for foundation 1.50 mt to 3.00 mt depth including sorting out and stacking of useful materials and disposing the excavated stuff with all lead (B) Dense or Hard soil	Bldg. 4.001(B)	25	
6	Excavation for foundation 3.00 mt to 5.00 mt depth including sorting out and stacking of useful materials and disposing the excavated stuff with all lead (c) Hard murrum	Bldg. 4.001(C)	25	
7	Excavation for foundation 5.00 mt to 6.00 mt depth including sorting out and stacking of useful materials and disposing the excavated stuff with all lead (c) Hard murrum	Bldg. 4.002(C)	26	

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8	Filling in foundation and plinth with sand in layers of 20 cm. Thickness including watering ramming and consolidating etc. complete.	Bldg. 4.24	28	
9	Filling available excavated Earth (Excluding Rock ) in trench plinth side of foundation . in layer not excluding 20 cm in depth consolidation each deposited layer by ramming and watering etc. complete.	Bldg. 4.12	27	
10	Filling foundation and plinth with murrum or selected soil in layer of 20 cm in thickness including ramming watering and consolidating etc. complete.	Bldg. 4.004	28	
11	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 Chlordane 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 / Sq.Mt of surface is recommended as per I.S.	Bldg. 22.00.7	137	
12	Providing and laying controlled cement concrete M-150 and curing complete including the cost of form work and but excluding cost of reinforcement for reinforced concrete work in : (a) Foundations, footings Bases of columns and the like and Mass concrete.	Bldg. 5.8.1.(A) 9.1(A)	38 54	Payment shall be made on Cu.M. basis of Complete item
13	Providing and laying controlled cement concrete M-250 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in foundation footings, Raft, base of columns and mass concrete.	Bldg. 5.8.3.(D) 9.1(A)	40 54	Payment shall be made on Cu.M. basis of Complete item
14	Providing and laying controlled cement concrete M-250 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in Columns, pillars posts and struts G.FLOOR	Bldg. 5.8.3.(D) 9.1(G)	40 56	Payment shall be made on Cu.M. basis of Complete item

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15	Providing and laying cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 B. T. Crushed stone aggregates 40 mm. nominal size) and curing complete excluding cost of form work in : (a) Foundation and plinth	Bldg. 5.3.3(A)	30	
16	Providing and laying controlled cement concrete M-200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in Columns, pillars posts and struts G.FLOOR	Bldg. 5.8.2.(D) 9.1(G)	39 56	Payment shall be made on Cu.M. basis of Complete item
17	Providing and laying controlled cement concrete M-200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in Columns, pillars posts and struts For First floor	Bldg. 5.8.2.(D) 9.1(G) 5.4.13	39 56 37	Payment shall be made on Cu.M. basis of Complete item
18	Providing and laying controlled cement concrete M-250 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in Plinth BEAMS	Bldg. 5.8.3.(A) 9.1(H)	40 56	Payment shall be made on Cu.M. basis of Complete item
19	Providing and laying controlled cement concrete M-150 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in Plinth Slab.	Bldg. 5.8.1.(A) 9.1(A)	38 54	Payment shall be made on Cu.M. basis of Complete item
20	Providing and laying controlled cement concrete M-200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in BEAMS Ground Floor.	Bldg. 5.8.2.(C) 9.1(H)	39 56	Payment shall be made on Cu.M. basis of Complete item
21	Providing and laying controlled cement concrete M-200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in BEAMS First Floor	Bldg. 5.8.2.(C) 9.1(H) 5.4.13	39 56 37	Payment shall be made on Cu.M. basis of Complete item

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22	Providing and laying controlled cement concrete M-200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in Lintels Ground Floor	Bldg. 5.8.2.(C) 9.1(H)	39 56	Payment shall be made on Cu.M. basis of Complete item
23	Providing and laying controlled cement concrete M-200 for reinforced concrete CHHAJJAS not exceeding 10 cm. Thickness up to floor two level including finishing the exposed surfaces with cement mortar 1:3 (1cement :3 fine sand) to give a smooth surface cantering and form work and curing complete excluding cost of reinforcement. Ground Floor	Bldg. 5.8.2.(C) 9.1(L) 5.4.13	39 57 37	Payment shall be made on Cu.M. basis of Complete item Rate includes the finishing of exposed surface using cement mortar 1:3
24	Providing and laying controlled cement concrete M-200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in SLABS for Ground Floor	Bldg. 5.8.2.(C) 9.1(B)	39 56	Payment shall be made on Cu.M. basis of Complete item
25	Providing and laying controlled cement concrete M-200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in SLABS for First Floor	Bldg. 5.8.2.(C) 9.1(B) 5.4.13	39 56 37	Payment shall be made on Cu.M. basis of Complete item
26	Providing and laying controlled cement concrete M-200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in STAIRCASE for Ground Floor	Bldg. 5.8.2.(E) 9.1(M)	39 57	Payment shall be made on Cu.M. basis of Complete item
27	Providing and laying controlled cement concrete M-200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in Wall caps/Copping Ground Floor	Bldg. 5.8.2.(C) 9.1(H)	39 56	Payment shall be made on Cu.M. basis of Complete item
28	Providing and laying controlled cement concrete M-200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in foundation footings, base of columns and mass concrete.	Bldg. 5.8.2.(A) 9.1(A)	39 54	Payment shall be made on Cu.M. basis of Complete item

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29	Providing and laying controlled cement concrete M-200 and curing complete including the cost of form work but excluding the cost of reinforcement for reinforced concrete work in RCC Paradi	Bldg. 5.8.2.(B) 9.1(C)	39 56	Payment shall be made on Cu.M. basis of Complete item
30	Providing T M T. bar reinforcement of Fe-500D for R.C.C. work including bending binding and placing in position complete up to All floor Level.	Separate Sheet Attached & follow Govt Circular Dated 15-02-2017		
31	Providing and Laying Brick work using common Brunt clay building bricks having crushing strength not less than 35 Kg./Sq.cm In foundation and plinth in cement mortar 1:6 (1cement : 6 fine sand) (b) Conventional	Bldg. 6.13(B)	44	
32	Providing and Laying Brick work using common Brunt clay building bricks having crushing strength not less than 35 Kg./Sq.cm.. In super structure above plinth level upto floor two level in cement mortar 1:6 (1cement : 6 fine sand) (b) Conventional {Ground Floor}	Bldg. 6.19 (B)	46	in cement mortar 1:6 instead of 1:5
33	Providing and Laying Brick work using common Brunt clay building bricks having crushing strength not less than 35 Kg./Sq.cm.. In super structure above plinth level upto floor two level in cement mortar 1:6 (1cement : 6 fine sand) (b) Conventional {First Floor}	Bldg. 6.19 (B) 6.20	46 46	in cement mortar 1:6 instead of 1:5
34	Providing and Laying Half brick masonry in common brunt clay building bricks having crushing strength not less than 35 Kg./Sq.cm.. In cement mortar 1:4 (1cement : 4 coarse sand) in super structure above plinth level GROUND FLOOR	Bldg. 6.30.1.(B)	46	
35	Providing and Fixing Double Shuttered Door having GRANITE frame with all open edges machine cut & machine polished, fixed SS hinges with factory made 35 mm th Solid Core, flushed door, having Lamination on both sides & 12 mm th Teak wood beading fixed around the door, Stainless steel ASIS 304 grade Tower Blot 30cm long, Aldrop 30 Cm long, handle 60 cm long, with locks etc complete as per detailed drawing	Separate Sheet Attached		

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36	Providing and Fixing Single Shuttered Door having Telephone BLACK GRANITE frame with all open edges machine cut & machine polished, fixed by Zinc Coated hinges with double shutter of factory made & stamped I.S 12823 Grade One, Type One 35 mm th Solid Core, Melamine faced, Three layered resin, flushed door, having Decorative Lamination on both sides & 12 mm th Teak wood beading fixed around the door, from "NOVAPAN" or equivalent company holding licence for minimum 5 years, Stainless steel ASIS 304 grade Stopper 20cm long, Aldrop 20 Cm long, handle 15 cm long, etc complete as per detailed drawing.	Separate Sheet Attached		
37	Providing and fixing FRP frame size 100 X 50 mm and 35 mm thick FRP shutter with depressed panel shutter having reinforcement on sides and edges and in GEL coat finish. The core of shutter is to be filled up with injected fibre extinguishing grade polyurethane foam done in situ along with embedded wooden pieces for stiffening and also for taking hinges and fixtures. The whole FRP frame and shutter is to be water proof, weatherproof, termite proof and resistance to mild acid/ Alkali resistance including S.S. hinges with necessary screws and aluminium fixtures and fastening.	Separate Sheet Attached		
38	Providing and fixing mild steel door with 40 x 40 x 6 mm angle for frame and for shutter frame 30 x 30 x 3 angle. For windows frame of angle 35 x 35 x 5 & for shutter windows 25 x 25 x 3 mm size angle and 18 gauge sheet for panels & 10 mm dia bars at 10 cm c/c for grill and 40 x 6 mm flats on edge of shutter, & 20 x 6 mm binding patti, including one coat of primer and two coats of oil painting etc. comp. as per detail / as directed by Engineer in Charge.	Separate Sheet Attached		
39	Providing and fixing colour anodised Alluminium Section SLIDING window (Three Track) using Jindal E Series { 30 mm} or equivalent section shutter top & bottom-20993, 0.839 Kg. / Rmt. shutter inter lock-20550, 0.994 Kg. / Rmt. shutter side (handle) - 20553, 0.731 Kg. / Rmt. frame-bottom with Weep Hole 20928, 2.032 Kg / Rmt.. frame top & side - 20837, 1.197 Kg. / Rmt. using Three Shutter 5 mm thick transparent Tinted Float glass, rubber gasket, air lock strip and finishing joints with silicon sealant, with standard extruded colour anodized aluminum coated fittings and fixture & fastening etc complete. {Colour as directed by Engineer in charge except	Separate Sheet Attached		

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	black & Alluminum section shall be Jindal or equivalent brand and glass of Modiguard, AIS or equivalent brand}			
40	Providing and fixing standard extruded of aluminium section of size 63.50 x 38.10 x 1.95 mm (@ Wt 1.094Kg / Rmt with colour anodized aluminium frame with 5 mm thick transparent bronze colour tinted float glass as details etc complete for Fix window.	Separate Sheet Attached		
41	Providing and fixing Safety grills of required pattern for windows / Door using 12 mm dia M.S polished bars, Angles / pipes for frame as directed & spacing as per Design / Drawing or as directed by engineer in charge and hold fasting with coach bolts including one coat of primer and two coats of matt finished oil painting etc complete.	Bldg.	10.100. (A) 19.11 19.7	66 121 122
42	Providing and fixing M.S. grills / Gates of required pattern to brick walls / Columns prepared with M.S. flats, angles, Square / round bars, square pipes, at required spacings with necessary hold fasts as per detailed drawing and fixing brick walls / coping / columns etc. complete including painting two coat & applying primer coat. (A) Ornamental Grill	Bldg.	10.100. (B) 19.11 19.7	66 121 122
43	Providing and laying 600 mm x 600 mm Glazed Vitrified Tiles flooring over 20 mm (average) base of cement mortar 1:6 ( 1 cement: 6 coarse sand) on new surface or fixing on existing flooring by adhesive material including dismantling of existing flooring and jointed with colour cement slurry including finished with flush pointing & cleaning the surface etc. complete Anti Skid (10%DARK COLOUR TILES FOR PATTERN)	Bldg.	14.43A	86
				The fabrication of Grill door shall be carried out as per detailed drawing. The grill shall be painted with approved paint two coats followed by red lead primer. Payment shall be made on Kg. basis of complete item.
				The fabrication of Grill door shall be carried out as per detailed drawing. The grill shall be painted with approved paint two coats followed by red lead primer. Payment shall be made on Kg. basis of complete item.
				Work shall be carried out using 60 cm x 60 cm GVT Vitrified tiles instead of kota stone. Colour and Pattern as directed by Architect office.

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44	Providing and laying 600 mm x 600 mm Full Body Vitrified Tiles flooring over 20 mm (average) base of cement mortar 1:6 ( 1 cement: 6 coarse sand) on new surface or fixing on existing flooring by adhesive material including dismantling of existing flooring and jointed with colour cement slurry including finished with flush pointing & cleaning the surface etc. complete (10%DARK COLOUR TILES FOR PATTERN)	Bldg. 14.43A	86	Work shall be carried out using 60 cm x 60 cm Full Body Vitrified tiles instead of kota stone. Colour and Pattern as directed by Architect office.
45	Providing and laying Vitrified granite tiles 8mm to 10 mm thick in skirting risers of steps and dado on 10 mm. thick cement plaster 1:3 (1 cement : 3 coarse sand) pointing in white cement and jointed with white cement slurry {Glazed Vitrified Tiles / Full Body Vitrified tiles MATCH TO FLOORING}	Bldg. 14.44	87	Work shall be carried out vitrified tiles with 10% Dark shade instead of kota stone. Colour and Pattern as directed by Architect office.
46	Providing and laying Machine Cut, Free Edges, Mirror polished GRANITE stone slab in single piece, 18 mm (Average) thick for steps and riser as per design incl. Half round front edge & 1 cm nosing in trade of steps laid on 20 mm thick cement mortar 1:6 (1 -cement : 6 coarse sand ) on treads & 10 mm thick Cement mortar 1:3 for risers, jointed with grey cement slurry including rubbing and polishing etc. complete.	Bldg. 14.43A 14.44	86 87	Work shall be carried out using machine polished GRANITE stone and front side of treads shall be round moulded and 1 cm nosing shall be provided as directed. Payment shall be made on Sq.Mt. basis for complete item.
47	Providing and laying 30 cm x 30 cm Anti Skid Colour Ceramic tiles flooring over 20 mm {average} base of cement mortar 1:6 { 1 cement : 6 coarse sand} and jointed with colour cement slurry including finished with flush pointing & cleaning the surface etc. complete for shade & pattern as directed by Architect Office.	Bldg. 14.29	84	using ceramic tiles of brand & size as specified in item of work. Colour and pattern shall be got approved from Engineer in Charge
48	Providing and laying glazed tiles 30 cm x 45 cm size in skirting risers of steps and dado on 10 mm. Thick cement plaster 1:3 (1 cement : 3 coarse sand) pointing in white cement and jointed with white cement slurry. Shade and pattern approved by Architect Office	Bldg. 14.32	84	using tiles of brand & size as specified in item of work. Colour and pattern shall be got approved from Engineer in Charge
49	Providing and laying white glazed tiles 6 mm. Thick in flooring treads of steps and landings laid on a Bed of 12 mm. Thick cement mortar 1:3 (1 cement : 3 coarse sand) finished with flush pointing in white cement	Bldg. 14.29	84	



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50	Providing and laying white glazed tiles 6 mm. Thick in skirting risers of steps and dado on 10 mm. Thick cement plaster 1:3 (1 cement : 3 coarse sand) pointing in white cement and jointed with white cement slurry.	Bldg. 14.32	84	
51	Providing and laying 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 and laid over and jointed with grey cement slurry including rubbing and polishing complete. (A) 25 mm. Thick	Bldg. 14.43 (A)	86	
52	Providing and fixing pre-cast Rubber Dye inter locking concrete block 60mm thick with grade of concrete M200 pneumatic compressed by mechanically pressed and as per approved design including 75mm sand layer for levelling and filling the joint with sand in proper line and level etc. completed.	Separate Sheet Attached		
53	Providing and fixing pre-cast concrete kerb stone of gray cement based concrete block 30cm length, 30cm height and 15 cm thick of M 250 grade concrete as per approved design and including excavation for fixing in proper line and level, filling the joint with C:M 1:3 (1 Cement : 3 fine sand) etc complete.	Separate Sheet Attached		
54	Providing and laying water proofing treatment with china mosaic tiles flooring over avg 40 mm C.C. 1:2:4 { 1 Cement : 2 sand : 4 Kapachi / Grit 6 to 12 mm size } bedding for maintaining slope for plain and curve surface & 12 mm to 20 mm of broken piece of ceramic / glazed tiles ( one for more colour as directed ) to be laid over cement mortar bedding of C M 1:3 (1 cement : 3 sand ) contain one Kg of water proofing materials per bag of O P C at plain or / and slops and to be tempered to bring mortar ceramic up to surface with using white cement and colour pigment including rounding of junctions and extending them up to 15 cm along the wall and curing with bends any patterns or design as per drawing and cleaning by using oxalic acid etc complete.	Separate Sheet Attached		
55	Providing and laying Mirror polished Telephone Black Granite slab 18 mm (Average) thick as per design incl. Half Round moulded both edges laid on 10 mm thick cement mortar 1:3 (1 -cement : 6 coarse sand ) jointed with grey cement slurry including rubbing and polishing and G.I. fastenings for top horizontal as directed etc. complete For Doors / Windows sill & Jams Cladding	Bldg. 14.43A 14.44	86 87	

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56	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.	Separate Sheet Attached		
57	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.	Separate Sheet Attached		
58	Providing 10 mm thick cement plaster in single coat on Ceiling / soffit of stair for interior plastering finished even and smooth (ii) Cement mortar 1:3 ( 1-cement, 3 - sand ) for Ground Floor.	Bldg.	17.58 (i) 17.91	104 107
59	Providing 10 mm thick cement plaster in single coat on Ceiling / soft of stair for interior plastering finished even and smooth (ii) Cement mortar 1:3 ( 1-cement, 3 - sand ) for First Floor.	Bldg.	17.58 (i) 17.91 17.94 (i)	104 107 107
60	Providing 20 mm thick Water Proof cement plaster for sunk in single coat on brick / concrete wall for interior plastering up to floor two level finished even and smooth (i) Cement mortar 1:3 ( 1-cement,3- sand ) and mixing waterproofing materials of approved brand and manufacture in cement mortar in proportion recommended by the manufacturer.	Bldg.	17.61 (i) 17.70	106 106
61	Applying two coats of Birla or Asian acrylic lappy (putty) and two coats of primer & Wall painting ( two coats) with plastic emulsion paint of approved brand and manufacture on wall surfaces to give an even brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.	Bldg.	18.57	120
				Providing Recrone S-5 water proofing materials in proportion as directed Payment shall be made on Sq.Mt. basis of complete item.
				Rate includes the cost of Applying two coats of Birla or Asian acrylic lappy (putty) and two coats of primer

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62	Applying two coats of Birla or Asian acrylic lappy (putty) and two coats of primer & Wall painting ( two coats) with plastic emulsion paint of approved brand and manufacture on ceiling and sloping roofs. to give an even brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.	Bldg. 18.57 18.60	120 121	Rate includes the cost of Applying two coats of Birla or Asian acrylic lappy (putty) and two coats of primer
63	Distempering (three coats) with oil bound distemper of approved brand & manufacturer & of required shade on wall surfaces to give an even shade, over & including a primary coat with alkali resistance primer of approved brand after thoroughly brushing the surface free from mortar dropping & other foreign matter & also including preparing the surface even & smooth.	Bldg. 18.45 18.47	118 118	
64	20 mm. Thick sand faced GUTAKA FINISHED cement plaster on walls upto 10 mt height above ground level consisting of 12 mm. 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) including making groove 6 mm wide and 8 mm deep as approved pattern etc. complete as directed.	Bldg. 17.95	107	6 mm wide and 8 mm deep groove shall be carried out as directed by engineer in charge. The rate for all required height and includes the labour charges for making grooves. Payment shall be made on Sq.Mt. basis for complete item.
65	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.	Bldg. 18.51	119	Using weather proof exterior emulsion paint instead of water proof cement paint.
66	Providing and fixing chicken mesh jali with square of 12.50 x 12.50 mm of 25 gauge at junction the Brick. masonry and reinforcement cement concrete member including fixing materials scaffolding labour etc. complete.	Separate Sheet Attached		
67	Providing 12 mm wide groove / notch in plaster including finishing the same etc. complete for all height.	Separate Sheet Attached		
68	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.	Bldg. 23.2 (A)	141	Using U.P.V.C. Pipe (SCH -40) instead of G.I. Pipe The fixing of pipe shall be carried out open / concealed as directed Payment shall be made on Rmt. basis complete item

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69	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.	Bldg. 23.2 (C)	141	Using U.P.V.C. Pipe (SCH -40) instead of G.I. Pipe The fixing of pipe shall be carried out open / concealed as directed Payment shall be made on Rmt. basis complete item
70	Providing laying and jointing in true line and level 40 mm 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.	Bldg. 23.2 (E)	141	Using U.P.V.C. Pipe (SCH -40) instead of G.I. Pipe The fixing of pipe shall be carried out open / concealed as directed Payment shall be made on Rmt. basis complete item
71	Providing laying and jointing in true line and level 50 mm 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.	Bldg. 23.2 (F)	141	Using U.P.V.C. Pipe (SCH -40) instead of G.I. Pipe The fixing of pipe shall be carried out open / concealed as directed Payment shall be made on Rmt. basis complete item
72	Providing and fixing to wall, ceiling and floor galvanised mild steel tubes (Medium grade) of the following nominal bore, tube, fittings and clamps included making good the wall, ceiling and floor. (F) 50 mm.	Bldg. 23.2 (F)	141	
73	Providing and fixing to wall, ceiling and floor galvanised mild steel tubes (Medium grade) of the following nominal bore, tube, fittings and clamps included making good the wall, ceiling and floor. (E) 40 mm.	Bldg. 23.2 (E)	141	
74	Providing and fixing to wall, ceiling and floor galvanised mild steel tubes (Medium grade) of the following nominal bore, tube, fittings and clamps included making good the wall, ceiling and floor. (C) 25 mm.	Bldg. 23.2 (C)	141	

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75	Providing and fixing to wall, ceiling and floor galvanised mild steel tubes (Medium grade) of the following nominal bore, tube, fittings and clamps included making good the wall, ceiling and floor. (A) 15 mm.	Bldg. 23.2 (A)	141	
76	Providing and fixing Heavy Handle valve of approved brand & following internal dia of Brass including fixing in pipe lines etc. complete. (C) 25 mm Dia	Bldg. 23.99 (C)	152	The heavy duty ISI mark handle valve shall be used instead of wheel valve.
77	Providing and fixing Heavy Handle valve of approved brand & following internal dia of Brass including fixing in pipe lines etc. complete. (E) 40 mm Dia	Bldg. 23.99 (E)	152	The heavy duty ISI mark handle valve shall be used instead of wheel valve.
78	Providing and fixing Butterfly valve of approved brand & following internal dia of Brass including fixing in pipe lines etc. complete. (A) 50 mm Dia	Bldg. 23.99 (E)	152	The Butter Fly valve shall be used instead of wheel valve.
79	Providing and fixing to wall ceiling floor 10 Kg. F/Cm <sup>2</sup> working pressure polythene pipes for soil waste and ventilating pipes of the following outside dia. low density, complete with necessary fittings, wall clamps etc including making good the wall ceiling and floor. (F) 75 mm.	Bldg. 23.8	144	The pipe shall be 10.0 Kg. F/Cm <sup>2</sup> working pressure polythene pipes of 75 mm dia instead of 6.0 Kg. F/Cm <sup>2</sup> working pressure polythene pipes
80	Providing laying and jointing in true line and level 110 diameter U.P.V.C. SWR Type B pipe confirming to IS 13592-1992 with one end plain and other end socketed with rubbering, & fitting 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 high at every 2000 mm centre to centre 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.	Bldg. 23.8	144	The pipe shall be 110 diameter U.P.V.C. SWR Type B pipe confirming to IS 13592-1992 with one end plain and other end socketed with rubbering, & fitting conforming to ISI 14735-1999 of approved make for drainage system instead of 6.0 Kg. F/Cm <sup>2</sup> working pressure polythene pipes

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81	Providing laying and jointing in true line and level 160 diameter U.P.V.C. SWR Type B pipe confirming to IS 13592-1992 with one end plain and other end socketed with rubbering, & fitting 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 160 mm diameter x 210 mm length x 196 mm high at every 2000 mm centre to centre 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.	Bldg. 23.8	144	The pipe shall be 160 diameter U.P.V.C. SWR Type B pipe confirming to IS 13592-1992 with one end plain and other end socketed with rubbering, & fitting conforming to ISI 14735-1999 of approved make for drainage system instead of 6.0 Kg. F/Cm <sup>2</sup> working pressure polythene pipes
82	Providing and fixing PVC Cowl vent of following dia etc complete as directed (A) 110 mm Dia	Separate Sheet Attached		
83	Providing and fixing PVC Cowl vent of following dia etc complete as directed (B) 160 mm Dia	Separate Sheet Attached		
84	Providing and fixing PVC SWR Nahni Trap IS 14735 for drain - 100 mm diameter with jali of the following nominal diameter of self cleansing design with C.I. screwed down or hinged grating including the cost of cutting and making good the walls.	Bldg. 23.87	146	The trap shall be of PVC SWR Nahni Trap IS 14735 for drain instead of C.I. Trap
85	Providing and fixing C.P. bib cock 15mm φ heavy duty with cap	Bldg. 23.92 (B)(I)	151	Tap shall be heavy duty with cap
86	Providing and fixing wash basin with pedestal of std. Height with single hole for pillar tap with C.I or M.S brackets painted white / fixing in granite platform including cutting holes and making goods the same including C.P. brass waste and waste pipes (A) Vitreous china. including 15 mm dia Pillar tap and Stop cock (II) Flat back washbasin 550 mm x 400 mm size (I) in white or colour	Bldg. 23.127	148	Washbasin shall be pedestal mounted & shall be of brand & Model No. as specified in item of work
		23.135 (A)	149	
		23.136 (A)	149	
		23.95 (A)	151	
		23.96 (A)	151	
87	Providing and fixing SS Sink Glossy ASIS 304 Grade x 1mm thick with over all size 610 x 460 mm & bowl size 560 x 410 x 200 with single hole for pillar tap Fixing in sandwich platform including cutting holes and making goods the same, 15 mm dia pillar tap. Stop cock 15 mm dia, necessary fixtures, connections and waste pipes etc complete.	Bldg. 23.130(C)	148	Kitchen sink shall be Glossy ASIS 304 Grade x 1mm thick with over all size 610 x 460 mm & bowl size 560 x 410 x 200 of approved brand Sink shall be fixed in platform. Payment shall be made on No. basis for complete item.
		23.135 (A)	149	
		23.136 (A)	149	
		23.95 (A)	151	
		23.96 (A)	151	

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88	Provision and fixing water closet squatting Orissa type W.C. pan size 580mm integral footrest and 100 mm P or S trap and including 25 mm dia CP brass flush valve and GI inlet connection etc. comp. (A) Vitreous china long pattern white or colour	Bldg. 23.111 (A) (I) 23.113 (A) 23.114 23.00.1	145 146 146 152	Payment shall be made on No. basis for complete item.
89	Pro. & Fix. wash down water closet (European W. C. pan) with integral "P" or "S" trap and PVC flushing cistern with fittings etc comp incl plastic sheet cover including jointing trap with pipe in cm 1:1 and connecting cistern with closet & Jet spray heavy duty with S.S. Braided hose 60 cm long & 2 No. 15 mm dia Stop cock (a) Vitreous china in white or colour	Bldg. 23.112(A)(i) 23.115(A)(i) 23.96(A)	146 147 151	Fixtures shall be of brand and model No. as shown in item of work The rate includes the cost of Plastic seat cover of matching shade including Jet spray. The flushing cistern shall be of PVC of matching shade
90	Providing and fixing Special Needs Range CRUSE SET, EWC, 710 x 370 x 810 mm, New Cat No: S1021113 S Trap, S1021114 P Trap, S1060106 Cistern, B1520118 Soft Close Seat Cover, B1810112 Twin Flush Fittings, S2040101 Wash Basin 510 x 400 mm, F9030451 Spatula Lever basin mixer, B2210106 Wall mounted Grab bar 600 mm long, B2210106 Wall mounted Grab bar 600 mm long, B2210108 Wall mounted Hinged rail 750 x 750 {Cera or equivalent}	Separate Sheet Attached		
91	Providing and fixing urinal of approved quality connecting the urinal with waste pipe, trap & 15 mm dia Stop cock etc. complete. (A) White earthen ware flat back or corner type size 430mm x 260mm x 350 mm	Bldg. 23.122 (A) 23.96 (A)	152 151	Payment shall be made on No. basis for complete item.
92	Providing erecting and fixing double coated PVC. (ISI) mark water tank of reqd capacity each with all necessary fittings & connection etc. comp on terrace.	Separate Sheet Attached		
93	Providing and fixing 600 mm x 450 mm bevelled edge mirror of superior glass mounted on 6 mm thick plywood sheet or PVC framing and fixed to wooden plugs with C.P brass screw and washers.	Bldg. 23.143	150	Mirror shall be of premium quality as directed by engineer in charge.
94	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 20mm size	Bldg. 23.144 (B)	150	Towel Rail shall be of premium quality as directed by engineer in charge.

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95	Providing and fixing S.W. Gully trap with C.I. Grating brick masonry chamber and water tight C.I. Cover with frame of 300 mm. X 300 size (inside) with standard weight (I) Square mouth traps (C) 150 mm. X 100 mm size P or R type	Bldg. 24.19 (I)	156	
96	Constructing brick masonry chamber for under ground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35 Kg/cm <sup>2</sup> in cm. 1:5 C.I. Cover with frame (light duty) 455 mm. X 610 mm. Internal dimensions, total weight of cover with frame to be not less than 38 Kgs. weight of cover 23 Kg. and wt. of frame 15 Kg) R.C.C. top slab with 1:2:4 mix(1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm. size ) foundation concrete 1:5:10 inside plaster 15 mm. thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls & bed concrete etc. complete. (I) inside dimensions, 455 mm. x 610 mm. And 450 mm. Deep for single pipe line.	Bldg. 24.44 (i)	163	
97	Constructing brick masonry chamber for under ground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35 Kg/cm <sup>2</sup> in cm. 1:5 C.I. Cover with frame (light duty) 455 mm. X 610 mm. Internal dimensions, total weight of cover with frame to be not less than 38 Kgs. weight of cover 23 Kg. and wt. of frame 15 Kg) R.C.C. top slab with 1:2:4 mix(1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm. size ) foundation concrete 1:5:10 inside plaster 15 mm. thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls & bed concrete etc. complete. [II] Inside dimensions 500 mm. x 700 mm. & 450 mm. deep for pipe lines one or two.	Bldg. 24.44 (ii)	163	
98	Providing throating or plaster drip and moulding to R.C.C. Chhajja.	Bldg. 5.4.18	33	
99	Providing and fixing in position 150 mm high, English letters made from 1.0 mm thick stainless steel sheet as directed by Engineer-in-charge with all necessary tools & plants etc. complete.	Separate Sheet Attached		



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100	Constructing Sandwich Platform of 18 mm thick Polished Black Granite at top and 30 mm thick Kota stone slab flooring fitting at bottom with cementing Materials / adhesives including making necessary grooves in walls with Vertical Kotastone 30 mm x 2 No sandwich thick every 60 cm centre to centre including all labour material of approved quality incl. full moulded round front edge fixed in wall for partition and jointed with grey cement slurry including rubbing and polishing etc. complete	Separate Sheet Attached		
101	Extra for additional height of propping and centering where the height of propping and centering exceeds 4.00 mt. Between supporting floor two ceiling including temporary brick or stone pillars for supporting as required.	Bldg. 9.2	58	Applicable for height more than 4.0 mt
102	Providing and fixing 110 cm high Stainless steel railing made from anticorrosive 304 grade S S pipe of 50 mm dia (16Gauge) as hand rail with S S 304 grade Baluster as a vertical support fixed in RCC slab at 1.66 m c/c including Five horizontal S S pipes of 20 mm dia (16Gauge) at equal distance including accessories as per detailed drawing as directed etc. complete.	Separate Sheet Attached		
103	SIGNAGES ON Door Providing, Fabricating & Fixing 304 grade Stainless steel 1.5 mm thick brushed steel finish plate fixed on a door using S. S. studs and with punched(laser cut) lettering carried out on S. S. plate of required size and text as directed by Engineer etc. complete.. Size: 12" x 6"	Separate Sheet Attached		
104	Providing cement vata (10 cm x 10 cm size ) quarter round in cement mortar 1:1 including neat cement finishing watering etc. complete.	Bldg. 17.0.0.1	109	
105	Providing and fixing C.I. Manhole cover 0.60m x 0.45m size having weight not less than 35 kgs.	Bldg. 22.00.6	153	
106	Providing and fixing RAZOR Coil with Blade 16MM, Clips per Spiral-5, Hot Dipped Galvanized 200 GSM, Tape Thickness 0.50 MM, GI Spring Core Wire 2.60MM Thick {avg weight 9.50 Kg / 6 mt}, and 5 Rows of galvanised steel barbed wire weighing 9.38 Kg. per 100 Metre in M.S. Angle posts 45 mm. X 45 mm. X 6 mm. and oil painting 3 coats fixed at 3.0 mt. C/C strained and fixed to posts with G.I. staples, including fixing posts in compound wall	Bldg. 22.20	135	The work shall be carried out using RAZOR Coil with Blade 16MM, Clips per Spiral-5, Hot Dipped Galvanized 200 GSM, Tape Thickness 0.50 MM, GI Spring Core Wire 2.60MM Thick {avg weight 9.50 Kg / 6 mt}, and

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				barbered wire. The supports shall be fixed in compound wall
107	Box cutting the road surface to proper slope and chamber for making a base for road work including removing the excavated stuff and depositing on the road side slope as directed	Separate Sheet Attached		
108	Providing and laying W.B.M. of B.T.M.C. metal of size 45 mm to 63 mm size including 20% Grit {Stone screening} & stone dust as filler including spreading, watering & consolidation by vibratory roller 80KN to 100KN static weight.	Separate Sheet Attached		
109	Providing and laying Controlled cement concrete M 200 for C. C. Road / wearing coat with polyester fiber (12mm) with triangular of equivalent cross section with specific gravity 1.35 to 1.40 (as a secondary reinforcement) in concrete of any grade at the rate of 125 gms per 50 kg of Cement consumption. and curing including cost of formwork, compaction and finishing of cement concrete road by trimix vacuum dewatering process on cement concrete road surface by using vacuum dewatering pump, surface floater, surface vibrator including channeling and making grooves and rough finish to surface by providing expansion joints, construction joints and filling of joints with asphalt filler as directed by Engineer In Charge and as per specification .	Separate Sheet Attached		
110	Steel work welded in built up sections, framed work including cutting, hoisting, fixing in position and applying a priming coat of red lead paint and two coats of matt finished oil painting etc complete. :- (B) In trusses and trussed purlins upto 25 m. span and 15 m. overall height.	Bldg.	11.4 (D) 19.12 19.7	70 121 122
				Fabrication shall be carried out as per detailed drawing. Payment shall be made on Quintal basis for complete item.

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111	Providing corrugated PPGL Sheets 0.62 mm thick roofing fixed with Galvanized iron 'J' or 'L' hooks bolts and nuts 8 m. diameter with bitumen and G. I. Limpet washers filled with white lead complete including ridges, gutters etc. excluding the cost of purlins, rafters and trusses. (1) 0.62 mm. Thick sheet	Bldg. 15.1	91	Roofing shall be carried out using PPGL sheet and Transparent Acrylic Sheet as shown in item of work Payment shall be made on Sq.Mt. basis for complete item
112	Providing 6.0 Kg f/cm2 working pressure polyethylene pipes of the following outside dia. Low density, complete with special flange compression type fittings wall clamps etc. including making good the wall, ceiling and floor. including Lowering, laying and jointing PVC pipes and specials of following class and diameter including cost of conveyance (i) 110 mm	Bldg. 23.4	142	The pipe shall be PVC pipe as shown in item of work instead of G.I. pipe
113	Providing 6.0 Kg f/cm2 working pressure polyethylene pipes of the following outside dia. Low density, complete with special flange compression type fittings wall clamps etc. including making good the wall, ceiling and floor. including Lowering, laying and jointing PVC pipes and specials of following class and diameter including cost of conveyance (i) 160 mm	Bldg. 23.4	142	The pipe shall be PVC pipe as shown in item of work instead of G.I. pipe
114	Providing and Construction of Junction chambers of size 0.35 x 0.35 x 0.60 mt. with Foundation Concrete in CM 1:2:4 10 Cm thick, Half Brick Masonary wall in CM 1:4, 50 mm thick Flooring in CC 1:2:4 Inside Plaster 15 mm thick in C.M. 1:4 including connecting of rainwater pipe as per detailed drawing and as directed by Engineer in charge	Separate Sheet Attached		
115	Providing and constructing filter chamber of size 2.06 x 1.21 x 1.20 mt. with Foundation Concrete in CM 1:2:4 12.5 Cm thick, 23 cm thick Brick masonry in CM 1:6, Half Brick Masonary Partition wall in CM 1:4, Inside Plaster 15 mm thick in C.M. 1:4 and cover slab 10 cm thick in CM 1:2:4 with necessary reinforcement and Filling 30 cm with 25 to 40 mm size Kapachi and Coarse sand for 90 cm as directed including connection rainwater pipes as per detailed as directed by Engineer in charge including cost of labour and material.	Separate Sheet Attached		

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116	Providing water harvesting pit of 2.00 mt x 2.00mt x 4.00 mt. size for water logging with excavation in any strata upto four meter depth, filling the pit with B. T. Metal 40 mm in 0.60 mt. depth with 25-40mm kapachi, 0.30 mt. depth and 2.0 mt. depth with coarse sand in layers including making P.V.C. line for water inlet etc. as directed with 250mm dia bore 35 mt. depth and 150mm dia P.V.C. pipe of 10 Kg. f/Cm2 casing with gravel packing or as directed.	Separate Sheet Attached		
117 to 173	<b>ELECTRIFICATION WORK</b>	Separate Sheet Attached		

**Signature of  
contractor**

**Executive Engineer  
R. & B. Panchayat Division  
Patan**