

**SCHEDULE B**

**Name of Work: Construction of Kendriya Vidyalaya Building at Port colony Gopalpuri, Gandhidham-PART- A (Civil Work)**

Item No.	Description of item	Qty	UNIT	RATE		AMOUNT
				In Fig.	In word	
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. All kinds of soil	6997.90	Cu.m			
2	Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre).	2196.00	Meter			
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	7432.22	m3			
4	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	880.00	m3			
5	Supplying chemical emulsion in sealed containers including delivery as specified. Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	304.00	liter			
6	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor:With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	2280.00	m2			
7	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	1588.00	m3			
8	Providing and laying factory made chamfered edge Cement Concrete paver blocks In foot path, park & lawns driveway or light & traffic parking etc. of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of course sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand, all complete as per manufacturer's specifications & 60mm thick Cement concrete paver block of M-35 grade with approved colour, design & pattern.	8800.00	S.q.m.			

9	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering,shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. .All works upto floor V level					
a	Extra for providing richer mixes at all floor levels: Providing M-30 grade concrete instead of M-25 (minimum Cement consumption 350Kg /Cum for M-30)	4867.00	m3			
10	Centering and shuttering including strutting, propping etc. and removal of form for all heights :					
A	Foundations, footings, bases of columns, etc. for mass concrete	2954.00	M2			
B	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	4325.00	M2			
C	Suspended floors, roofs, landings, balconies and access platform	6512.00	Sq.m			
D	Lintels, beams, plinth beams, girders, bressumers and cantilevers	9669.00	Sq.m			
E	Columns, Pillars, Piers, Abutments, Posts and Struts	8961.00	Sq.m			
F	Stairs, (excluding landings) except spiral-staircases	249.00	Sq.m			
11	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	630.00	Sq.m			
12	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete upto floor five level <del>Thermo-Mechanically Treated bars of grade Fe-500D or more</del>	575370.00	KG			
13	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand :12 graded stone aggregate 20 mm nominal size) upto plinth level with Cement mortar 1:6 (1 cement : 6 coarse sand)	912.00	Cu.m			
14	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	1239.00	Cu.m			
15	Providing and fixing Exposed Brick Work for cladding in elevation with 10mm groove, size of brick 220x70x20mm Natural brick product code REC-711 Radhe Krishna Brick with weber brand Grade -C 2TE Adhesive for cladding with all material , labour ,Scaffolding etc all complete as directed by Engineer In Charge.	960.00	sqm			
16	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	14129.75	SQM			
17	15 mm cement plaster on the rough side of single or half brick wall of mix 1:4 (1 cement: 4 fine sand)	10944.00	SQM			

18	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade (Area of slab over 0.50 sqm)	1315.00	SQM			
19	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick.	241.00	SQM			
20	Providing grit plaster to out side building in elevation work upto 12 m height with thickness of 10mm a Grade Kota grit stone grey colour shade , groove complete with all material like cement sand , kota grit , colour , Scaffolding , labour etc all complete as directed by Engineer In- charge.	2160.00	SQM			
21	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	4672.00	sqm			
22	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades (except burgundy, bottle green, black) of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. Wall Tiles size 300X 600	594.00	sqm			
23	Extra for providing opening of required size & shape for wash basin/kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	6.00	Each			
24	Marble stone flooring with 18 mm thick marble stone, as per sample of marble approved by Engineer-in-charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with :					
A	Udaipur green marble	108.00	sqm			
B	Pink marble	108.00	sqm			
25	Extra for pre finished nosing to treads of steps of marble stone.	57.00	metre			
26	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	14130.00	SQM			

27	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. Two coats	14130.00	SQM			
28	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :water thinnable cement primer	14130.00	SQM			
29	Applying priming coat:With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	484.00	SQM			
30	Finishing walls with Acrylic Smooth exterior paint of required shade New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm	10944.00	SQM			
31	Applying priming coat With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	522.00	SQM			
32	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	522.00	SQM			
33	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length ( including holdfast lugs or dash fastener). Second class teak wood	102.00	Cum.			
34	Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters including 1st class teak wood lipping of required width and thickness of 12mm.					
A	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	192.00	SQM			
B	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. hinges with necessary screws.	46.00	SQM			

35	Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required)extruded profiles duly reinforced with $1.60 \pm 0.2$ mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket,stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Variation in profile dimension on higher side shall be accepted but no extra payment on this account shall be made. Casement window double panels with S.S. friction hinges (350 x 19 x 1.9 mm) made of (big series)frame 67 x 60 mm & sash / mullion 67 x 80 mm both having wall thickness of $2.3 \pm 0.2$ mm and single glazing bead/double glazing bead of appropriate dimension. (Area of window above 1.50 sqm).	63.00	S.Q.M			
36	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With stainless steel cover plate minimum 1.25 mm thickness	4.00	Each			
37	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with IS : 3564,embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws	10.00	each			
38	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	10.00	each			
39	Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality including necessary screws etc. complete. Size 40 mm	10.00	each			

40	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts,fasteners etc.).	9129.60	KG			
41	Providing and fixing chromium plated brass curtain rod having wall thickness of 1.25 mm with two chromium plated brass brackets fixed with C.P. brass screws and PVC sleeves etc.,wherever necessary complete : 20 mm dia	24.00	Rmt.			
42	Providing and fixing Oxidised mild steel tower bolt (barrel type) 200x10 mm. 200x10 mm	40.00	Each			
43	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete : 100 MM	180.00	Each			
44	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete : 300x10 mm	50.00	Each			
45	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. 125 mm	150.00	Each			
46	Providing and fixing aluminium hanging floor door stopper, ISI marked,anodised (anodic coating not less than grade AC 10 as per IS : 1868)transparent or dyed to required colour and shade, with necessary screws etc. complete. Single rubber stopper					
A	Double rubber stopper	90.00	Each			
47	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15mm to receive shutter of 30mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	200.00	Rmt.			
48	Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality with necessary screws.	50.00	Each			

49	Providing and fixing cup board shutters 25 mm thick, with Pre-laminated flat pressed three layer particle board or graded wood particle board IS:12823 marked, exterior grade (Grade I Type II), having one side decorative lamination and other side balancing lamination, including IInd class teak wood lipping of 25 mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of the Engineer-in-Charge	9.23	sqm			
50	Providing and fixing stainless steel fixtures of approved make with SS screw etc. complete.					
A	Aldrops 300x16 mm Size	180.00	Each			
B	Aldrops 250x16 mm Size	165.00	Each			
C	Door Latch 250x16x5 mm Size	240.00	Each			
D	Handle 150 mm	300.00	Each			
E	Handle 125 mm	360.00	Each			
F	Handle 100 mm	210.00	Each			
G	Tower Bolts 200 mm Size	360.00	Each			
H	Tower Bolts 100 mm Size	270.00	Each			
I	Floor door stopper	90.00	Each			
	<b>STEEL WORK</b>					
51	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	90.00	each			
52	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	6858.00	Kg			
53	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.					
A)	110 mm diameter	240.00	Rmt.			
54	Providing and fixing PVC soil waste pipe as per IS 4985 including Y bends Elbow, T of the required suitable size of the pipe, the rates are including fitting, cutting, bending complete as per direction of Engineer In- Charge					
a)	50mm dia pipe	48.00	Rmt.			
b	75 mm Dia pipe	48.00	Rmt.			
c)	110 mm Dia pipe	48.00	Rmt.			
d	160 mm dia pipe	50.00	Rmt.			

55	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I.wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills,diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :					
A	12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095- Part I	411.00	SQM			
56	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For fixed portion					
A	For shutters of doors, windows & ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)	2710.00	Kg.			



57	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge.Pre-laminated particle board with decorative lamination on both sides.	122.00	SQM.			
58	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 8 mm thickness	108.00	SQM.			
59	Filling the gap in between aluminium frame & adjacent RCC/ Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge. Upto 5mm depth and 5 mm width	180.00	RMT.			
60	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	39.00	SQM.			
61	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm , mixing fibre @ 125 grams per 50 kg of cement in cement mortar,including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of Engineer-in-charge.	1524.00	SQM			
62	Providing and fixing chicken wire mesh 150 mm wide 24 gauge with opening of 25x25mm at the junction of RCC or specified, including fixing with GI nails all complete to the satisfaction of the Engineer incharge.	120.00	Sq.m.			
63	Structural steel work riveted, bolted or welded in built up sections,trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	20670.00	KG			

64	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length ( total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	1100.00	Rmt.			
65	Providing & fixing 10 mm thick multiwall poly carbonate sheet of required shape and shade complete with cost of nuts, bolts, washers, alluminium wind etc. filling of gassheets at joint of sheets and siliearth in joints and gaps. The work also comprises of fixing of alluminium jingles at bothsides of sheets as directed by Engineer-in-charge.	750.00	Sq.m.			
66	Providing and fixing Aluminium Louvers including 5mm thick glass in complete as per direction of engineer in charge.	11.00	Sq.m.			
67	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	11000.00	per litre			
68	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	29.00	Each			
69	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid	12.00	Each			
70	Providing and fixing Jet Spray with 2'-6" long PVC pipe With CP brass nut complete.	5.00	Each			
71	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with CP bras flush fittings, with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required .	5.00	Each			

72	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with C.P. brass flush fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required.	25.00	Each			
73	Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. automatic flushing cistern, with fittings, standard size G.I. / PVC flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and C.P. brass coupling complete, including painting of fittings and cutting and making good the walls and floors etc. wherever required Single squatting plate with 5 litre P.V.C. automatic flushing cistern	15.00	Each			
74	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:- (a) White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	25.00	Each			
75	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. 32 mm dia (Flexible pipe)	50.00	Each			
76	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in -charge.	12.00	Each			
77	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore.	50.00	Each			
78	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore	55.00	Each			
79	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete: 25 mm nominal bore	41.00	Each			
80	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931					
A	15mm nominal bore	25.00	Each			
81	Providing and fixing PTMT grating of approved quality and colour.					
A	Circular type 100 mm nominal dia	50.00	Each			
B	125 mm nominal dia with 25 mm waste hole	15.00	Each			
82	Providing and fixing Stainless Steel towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement complete, as per direction of Engineer in Charge.	21.00	Each			

83	Providing and fixing Stainless Steel towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement complete, as per direction of Engineer in Charge. 600 mm long towel rail with total length of 645 mm,width 78 mm and effective height of 88 mm	10.00	Each			
84	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	10.00	Each			
85	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	18.00	Each			
86	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. (for Internal Work)					
A)	20 mm nominal outer dia Pipes	200.00	Rmt.			
B)	25 mm nominal outer dia Pipes	100.00	Rmt.			
C)	32 mm nominal outer dia Pipes	170.00	Rmt.			
D)	50 mm nominal outer dia Pipes	240.00	Rmt.			
87	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. (For external Work)					
A)	32 mm nominal outer dia Pipes	300.00	METRE			
B)	40 mm nominal outer dia Pipes	100.00	METRE			
C)	50 mm nominal outer dia Pipes	100.00	METRE			
D)	62.50 mm nominal inner dia Pipes	100.00	METRE			
E)	75 mm nominal inner dia Pipes	150.00	METRE			
F)	100 mm nominal inner dia Pipes	200.00	METRE			
G)	150 mm nominal inner dia Pipes	150.00	METRE			
88	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) :					
A)	100 mm dia- Class-I	6.00	Each			
B)	150 mm dia- Class-I	6.00	Each			
89	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :					
A)	25 mm nominal bore	10.00	Each			
B)	20 mm nominal bore	20.00	Each			
C)	32 mm nominal bore.	25.00	Each			
D)	40 mm nominal bore	2.00	Each			

E)	50 mm nominal bore	4.00	Each			
F)	80 mm nominal bore	6.00	Each			
90	Cutting chases in brick masonry walls for following diameter sand cast iron/centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 ( 1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size), including necessary plaster and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :					
A)	100 mm dia	100.00	Metre			
91	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	30.00	each			
92	Extra for depth for manholes : Size 90x80 cm ,With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	30.00	Meter			
93	Providing and fixing PVC manhole cover Heavy duty with frame 600 x 600 mm size clear opening including cost of all labour & material as directed.	10.00	Each			
94	Rectangular shape 600x450 mm precast R.C.C. manhole cover with frame - L.D. - 25	20.00	Each			
95	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating 100x100 mm size P type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	20.00	Each			
96	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :100 mm inlet and 100 mm outlet. Sand cast iron S&S/ PVC as per IS: 3989	41.00	Each			
97	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :					
A)	450 mm dia. R.C.C. pipe	76.00	Meter			
B)	300 mm dia. R.C.C. pipe	360.00	Meter			
C)	150 mm dia. R.C.C. pipe	150.00	Meter			
98	Providing and fixing toilet paper holder : C.P. brass	10.00	Each			
99	Providing and fixing 100 mm sand cast Iron grating for gully trap.	20.00	Each			

