

**Name Of Work:Repair & Renovation works(Civil) of Canteen Block -SBILD,Vizianagaram.**

Sl.No	Description of Work / Item(s)	Units	Qty	Rate	Amount	Amount in Word
1	<b>REPAIR WORKS</b>					
2	<b>SUB HEAD I-DISMANTLING &amp; DIMOLISHING :</b>					
3	Demolishing cement concrete manually/ by mechanical means including disposal of material as per direction of Engineer - in - charge					
4	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	Cum	5.00			
5	Demolishing R.C.C. work manually/ by mechanical means including cutting & stacking of steel bars and disposal of unserviceable material as per direction of Engineer - in- charge.	Cum	5.00			
6	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material as per direction of Engineer-in-charge.					
7	In cement mortar	Cum	10.00			
8	Dismantling & taking out doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking :					
9	Of area 3 sq. metres and below	Each	8.00			
10	Dismantling tile work in floors and roofs laid in cement mortar including rubbish disposal & stacking material as per direction of Engineer - in- charge.					
11	For thickness of tiles 10 mm to 25 mm	Sqm	15.00			
12	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking of usefull material					
13	75 to 80 mm dia pipe	Metre	0.00			
14	100 mm dia pipe	Metre	20.00			
15	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials .	Each	3.00			
16	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground .	Sqm	40.00			
17	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, for all leads including all lifts involved.	Cum	25.00			
18	Dismantalling W.C. Pan(all types) of all sizes/wash basins including disposal of dismantled materials including malba all complete as per directions of Engineer-in-Charge	Each	8.00			
19	<b>Total of Subhead</b>					
20	<b>SUB HEAD II- REPAIRS TO BUILDING</b>					
21	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.					
22	With cement mortar 1:4 (1 cement : 4 fine sand)	Sqm	40.00			
23	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.					
24	Door chowkhats	Each	4.00			
25	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	Sqm	580.00			
26	Removing dry or oil bound distemper/ACRYLIC EMULSION/ water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	Sqm	230.00			

27	Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge					
28	50mm average thickness	Sqm	150.00			
29	Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine to a minimum depth of 100mm upto 200mm in RCC beams, lintels, columns and slabs to introduce steel bars for sunshades/balconies including fixing the steel bars in position using epoxy resin anchor grout of approved make but excluding the cost of reinforcement, all complete as per direction of Engineer-In-Charge					
30	Upto and including 12mm dia.	Each	20.00			
31	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect.					
32	Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make	Sqm	50.00			
33	Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge.Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/Sqmm <sup>2</sup> ).					
34	25 mm average thickness in 2 layers	Sqm	150.00			
35	Providing, mixing and applying SBR polymer (of approved make @ minimum 2% by wt. of cement used) modified plain/reinforced cement concrete for structural members having minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness.Note: Rates shall be for finished surface area of concrete and shall include the cost of labour, concrete and appropriate approved Super Plasticiser for rendering concrete as flowable and SBR polymer but shall exclude cost of einforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument)					
36	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	Sqm	0.00			
37	Providing and injecting approved grout in proportion recommended by the manufacturer into cracks/honey-comb area of concrete/ masonry by suitable gun/pump at required pressure including cutting of nipples after curing etc. complete as per directions of Engineer-in Charge(The payment shall be made on the basis of actual weight of approved grout injected.)					
38	Stirrer mixed SBR Polymer (of approved make) modified Cement slurry made with Shrinkage Compensating Cement in concrete/RCC work.	Kg	10.00			
39	Providing, erecting, maintaining and removing temporary protective screens made out of specified fabric with all necessary fixing arrangement to ensure that it remains in position for the work duration as required by the Engineer-in-charge.					
40	Wooven PVC cloth	Sqm	0.00			
41	Shotcreting R.C.C. columns, beams and slabs etc. in layers with approved design mix concrete having the specified minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10 mm maximum size in proportion as per design criteria] including the cost of centering and shuttering at edges and corners etc. as directed by Engineer in-Charge.Note: Rates shall include the providing necessary ground wires etc. The levelling gauges, if used, shall be paid for separately. Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/ tapping with a blunt metal instrument.					
42	25mm thick in Grade M 25 with cement content not less than 330 kg per cum	Sqm	10.00			
43	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :					
44	In 75x75 mm deep chase	Metre	20.00			

45	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	Each	20.00			
46	<b>Total of Subhead</b>					
47	<b>NEW WORKS TO BUILDING</b>					
48	<b>SUB HEAD -III ,EARTH WORK EXCAVATION:</b>					
49	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.					
50	All kinds of soil. a) Lift 0-1.5 m	Cum	5.00			
51	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 disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.					
52	a) Ordinary rock :Lift 0-1.5 m	Cum	0.00			
53	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 1.5 m, including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50 m : Ordinary Rock.					
54	All Kinds of soil					
55	Pipes, cables etc. not exceeding 80 mm dia	Metre	15.00			
56	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	Metre	20.00			
57	<b>Total of Subhead</b>					
58	<b>SUB HEAD -IV ANTI TERMITE TREATMENT:</b>					
59	Supplying chemical emulsion in sealed containers including delivery as specified.					
60	Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	Litre	30.00			
61	Diluting and injecting chemical emulsion for POSTCONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :					
62	Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete:					
63	With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration	Metre	50.00			
64	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.:					
65	With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration	Metre	0.00			
66	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:					
67	With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	Sqm	0.00			
68	Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole :					
69	With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	Metre	50.00			
70	Treatment at points of contact of wood work by chemical emulsion Chlorpyrifos/ Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same	Metre	50.00			
71	<b>Total of Subhead</b>					
72	<b>SUB HEAD -V: PLAIN &amp; REINFORCED CEMENT CONCRETE:</b>					
73	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering - All work from plinth to Floor V level :					
74	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	5.00			
75	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	0.00			

76	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	10.00			
77	Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc., including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), cost of required Centering complete.					
78	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20mm nominal size).	Cum	0.00			
79	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources)	Sqm	0.00			
80	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	per 50 kg cement	25.00			
81	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) 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.	Sqm	52.00			
82	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement:					
83	1:1.5:3 (1 cement: 1.5 coarse sand(zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	10.00			
84	Supplying, fabricating and fixing in position reinforcement bars at all levels and positions including centering,shuttering,the cost of steel, straightening, cutting, bending, binding and placing in position etc., as per drawings and specifications including the cost of binding wire, labour etc., all complete for reinforced concrete.					
85	a) TMT bars of grade Fe-500	Kg	200.00			
86	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of 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 the Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum.Excess/less cement used as per design mix is payable/recoverable separately).					
87	All works Upto plinth level	Cum	0.00			
88	All works above plinth level upto floor V level	Cum	0.00			
89	Add/Deduct for using extra cement in the items of design mix over and above the specified cement content there in.	Qtl	5.00			
90	Providing and laying in position specified grade of reinforced cement concrete, including the cost of centering, shuttering, finishing andreinforcement - All work plinth to floor v level :					
91	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	10.00			
92	Providing, fixing and stripping off all types of shuttering using steel / plywood form work for the following items of RCC works at the heights and depths mentioned against each item etc.,complete as per specifications and as directed by the engineer in charge.					
93	a) Foundations & footings & bases of columns	Sqm	0.00			
94	b)Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	Sqm	0.00			
95	c)Suspended floors, roofs, landings, balconies and access platform	Sqm	0.00			
96	d)Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	0.00			
97	e)Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	0.00			
98	Weather shade, Chajjas, corbels etc., including edges	Sqm	0.00			

99	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).					
100	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	Sqm	0.00			
101	<b>Total of Subhead</b>					
102	<b>SUB HEAD- VI : STONE &amp; BRICK MASONARY.</b>					
103	Brick work with common fly ash (non modular) bricks of class designation 7.5 in foundation and plinth in:					
104	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	5.00			
105	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :					
106	Cement mortar 1:6 (1 cement : 6 Coarse sand)	Cum	5.00			
107	Half brick masonry with non modular fly ash bricks of class designation 10, conforming to IS :12894, in super structure above plinth and upto floor V level.					
108	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Sqm	10.00			
109	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	Sqm	10.00			
110	<b>Total of Subhead</b>					
111	<b>SUBHEAD - VII : PLASTERING &amp; SURFACE TREATMENT :</b>					
112	Providing of 6mm cement plaster of mix in all surface with cement mortar					
113	1:3 (1 cement : 3 fine sand / M-Sand ) at all levels	Sqm	20.00			
114	Providing of 12mm cement plaster of mix in all surface with cement mortar					
115	1:6 (1 cement : 6 fine sand / M-Sand ) at all levels	Sqm	30.00			
116	15 mm cement plaster on the rough side of single or half brick wall.					
117	1:6(1 cement:6 coarse sand)	Sqm	30.00			
118	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.					
119	20 mm cement plaster	Sqm	5.00			
120	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge	Sqm	5.00			
121	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers:	per bag of 50kg cement used in the mix	5.00			
122	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	Metre	10.00			
123	Distemping with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre ,of approved brand, & manufacturer, including applying additional coats wherever required, to achieve even shade & color. Old work (One or more coats.)	Sqm	575.00			
124	Finishing walls with water proofing cement paint of required shade :					
125	New work /old work(Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	200.00			
126	White washing with lime to give an even shade :	Sqm	20.00			
127	Finishing walls with textured exterior paint of required shade :					
128	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	Sqm	20.00			
129	Finishing walls with Acrylic Smooth exterior paint of required shade					
130	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 liter /10 sqm)	Sqm	450.00			
131	Applying priming coat :					
132	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works	Sqm	50.00			
133	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					
134	Two or more coats on new work	Sqm	50.00			
135	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.	Sqm	50.00			

136	Providing and applying two coats of fire retardant paint on cleaned wood / ply surface @ 3.5 sqm per litre per coat including preparation of base surface as per recommendations of manufacturer to make the surface fire retardant.	Sqm	10.00			
137	White washing with lime to give an even shade :					
138	Old Work(One or More coats)	Sqm	300.00			
139	Distemping with 1st quality acrylic distemper (Ready mix) having VOC content less than 50 grams/ litre of approved brand and manufacture to give an even shade					
140	NEW work (one or more coats)	Sqm	580.00			
141	<b>Total of Subhead</b>					
142	<b>SUBHEAD-VIII : FLOORING</b>					
143	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
144	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	10.00			
145	Providing and fixing 18mm thick gang saw cut mirror polished pre moulded and polished machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 Cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment. epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all level Granite of any colour and shade Area of slab over 0.50sqm	Sqm	5.00			
146	Providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. Granite work / Marble Work	Metre	10.00			
147	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) :					
148	25 mm thick	Sqm	10.00			
149	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete	Sqm	5.00			
150	Marble stone flooring with 18mm 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: Udaipur green marble	Sqm	0.00			
151	Extra for marble stone flooring in treads of steps and risers using single length up to 2.00 metre.	Sqm	0.00			
152	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete	Sqm	100.00			
153	RAK/KAJARIA/EQUIVALENT MAKE.					
154	Cat no-RAK-Breviera grey- A04RZBRE-Gyo.MoU					
155	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 tile Size(300 x 450 mm)	Sqm	50.00			
156	Cat no-RAK-Breviera grey- A14RZBRE-Gyo.GoR					
157	Cat no-RAK-Breviera grey-mosaic décor- A14RZBRE-Gyo.GRR					

158	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.					
159	Double charge vitrified tile polished finish of size					
160	Seine Light Grey or Seine Light Orange					
161	Size of Tile 600X600 mm.	Sqm	0.00			
162	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Double charge vitrified tile polished finish of any size					
163	Size of Tile 600x600 mm	Sqm	0.00			
164	GVT-Cem Avorio OR Cimentina White					
165	Cheqered cement concrete precast tiles of 22 mm thick in stilt portion, footpath,court yard ,jointed with neat cement slurry mixed with pigment to matchthe shade of tiles, including rubbing and cleaning etc. complete, on 20mm thick bed of cement mortar 1:4(1cement:4coarse sand);Medium shade pigment using 50% white cement 50% grey cement	Sqm	20.00			
166	<b>Total of Subhead</b>					
167	<b>SUBHEAD-IX : STEEL, JOINERY &amp;WOOD WORK.</b>					
168	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 commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:					
169	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws (all doors)	Sqm	10.00			
170	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges IS : 3818 marked with necessary screws.	Sqm	15.00			
171	Providing, fitting & fixing of 3000 Series Roller Blind of interlace make consisting of various sizes of roller tubes, mechanisms and bracketry to cover a wide variety of window sizes. The system is suitable for anything from attachment to doors, through to large areas of glazing. The roller tubes are a strong and robust design extruded from aluminium to provide a rigid barrel which will resist deflection. The internal ribs strengthen the design to allow heavy weight screen type and blackout fabrics to be used. The mechanisms are manufactured from UV-resistant plastic to ensure a long life. The larger systems have a geared mechanism which can also be combined with an internal spring within the tube, which makes operation lightweight and easy. The side chains are manufactured from stainless steel and have a endless join to allow complete flexibility. The blind hembar is normally concealed within the fabric to be unobtrusive. To give additional weight, a 22mm aluminium section is used which is a circular extrusion and finished in white (or any other RAL colour to order). The larger systems can also be coupled with a full cassette system with an attractive rounded profile which fully contains the roller barrel, fabric and mechanism. Alternatively, a square fascia can be used to give the effect of a cassetted blind, or a concealing bulkhead whilst maintaining accessibility to the mechanics of the system.	Sqm	20.00			
172	Providing & Fixing Fiber Glass Reinforced plastic(FRP) Door Frames of cross-section 90 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2 mm 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.	Rmt	25.00			
173	30 mm thick fiberglass Reinforced plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856 , complete as per direction of Engineer-in-charge.	Sqm	15.00			

174	Kiln seasoned and chemically treated hollock wood	Sqm	10.00			
175	Providing and fixing teak wood lipping of size 25x3 mm in pelmet	Rmt	20.00			
176	Providing and fixing IS: 12817 marked stainless steel butt hinges with stainless steel screws etc. complete(100x58x1.90)mm	Each	20.00			
177	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.).	kg	35.00			
178	Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	Sqm	5.00			
179	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :					
180	250 x 10 mm	Each	15.00			
181	100 x 10 mm	Each	5.00			
182	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. complete :					
183	125 mm	Each	10.00			
184	100 mm	Each	10.00			
185	Providing and fixing PTMT Tower Bolts with 12 mm one piece rod inside and necessary screws etc., complete					
186	152x42x18 mm weighing not less than 60 gms	Each	10.00			
187	202x42x18 mm weighing not less than 78 gms	Each	10.00			
188	Fixed window / ventilator made of (small series) using R1 series with frame (33mm above )x(35 mm above) height upto 0.90 m.	Sqm	3.00			
189	Providing and fixing factory made uPVC glazed/wire mesh windows/doors comprising of lead free uPVC multi-chambered frame, sash and mullion/coupler (where ever required) extruded profiles having minimum waql thickness of 1.70 mm for Series R1 and R2 profiles and 2.10 mm for series R3 and R4 profiles conforming to EN: 12608 in any space, colour and design duly reinforced with galvanized mild steel section made of required shape & size as per CPWDspecification, uPVC exturded glazing beads, interlocks and Inline sash adaptor (there ever required) of appropriate dimension, EPDM gasket, hardware, SS 304 grade fasteners of minimum 8 mm dia with countersunk head, comprising of matching polyamide PA6 grade sleeve for fixing frame to finished wall as per IS 1367 : part 1 to 14, plastic packers, plastic caps and necessary stainless steel screws etc. profile of frame, sash & mullion (if required) shall be mitred cut and fusion welded/mechanically jointed duly sealed at all corners, including drilling of holes for fixing hardware and drainage of water etc. after fixing frame the gap between frame and adjacengt finished wall shall be filled with weather proof silicon sealant over backer rod of approved size and quality, all complete as per approved drawing conforming to CPWD specification & direction of Engineer-in Charge. section of steel reinforcement and cross sections of uPVC profiles to be as per design approved by Engineer - in -Charge. Wire mesh/ Glazing of plain/ toughened/ laminated/ double glass unit with / without high performance coatings as per design requirements and conforming to IS:3548 & IS: 16231 shall be paid separately.Note:- Structural design proof checked from a Government Engineering Institute, to provided by the					
190	Two and half track three panels sliding window with two glazed & one wire mesh panels with Aluminium chanel for roller track, wool pile, nylon rollers with SS 304 body.	Sqm	20.00			
191	<b>Total of Subhead</b>					
192	<b>SUBHEAD- X : ROOFING &amp; WATER PROOFING</b>					
193	Providing and fixing on wall face unplasticised Rigid Single socketed PVC rain water pipes conforming to IS : 13592 Type A, along with injection moulded fittings as required e.g., bends on any angle, sockets, junction, cowls, offsets, access pieces, including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion, providing and fixing MS stays & clamps and cutting & making good the holes in floors and walls wherever required etc. all complete. (For Rain water pipe).					
194	110 mm diameter	Metre	30.00			



195	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.					
196	110 mm diameter	Each	20.00			
197	Providing and fixing to the inlet mouth of rain water pipe PTMT (an Engineering Thermoplastic) grating square (Slit) 150 mm square with a height of 8 mm and weighing not less than 100 gms.	Each	15.00			
198	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.					
199	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 :					
200	12.5 mm thick tapered edge gypsum moisture resistant board	Sqm	0.00			
201	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.					
202	<b>Total of Subhead</b>					
203	<b>SUBHEAD-XI : SANITARY SERVICES</b>					
204	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					
205	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	1.00			

206	Supplying and fixing approved quality European water closet with FRP cistern set comprising of : ( a ) Star White glazed European water closet with wash down pattern of approved make with P or S trap fixed to floor with necessary teak wood plugs, CP brass screws, etc. ( b ) 10 ltrs. capacity PVC low level flushing cistern made of corrosive resistant materials fixed to wall with necessary brackets and screws, and plugs with matching chromium plated flush bend with float valve and flushing arrangements of slimline or equivalent. ( c ) 15 mm heavy quality flexible PVC inlet connection with brass hexagonal check nuts with washer at both ends. ( d ) Approved make plastic seat and cover to match the colour of water closet and CP hinges fixed to water closet. ( e ) 15 mm CP brass Angular stop cock fixed between GI outlet and PVC inlet.	Each	1.00			
207	OPS-WHT-15753P180UFSMZ/or 15753NP180UFSMZ					
208	Providing and fixing wash basin with C.I. brackets, 15mm C.P. brass pillar tap, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require with White vitreous china flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap, 15mm PVC connection pipe with angle valve , waste coupling & 2 CI brackets.					
209	size 630x450 mm with a pair of 15 mm C.P. brass pillar tap	Each	0.00			
210	size 550x400 mm with a pair of 15 mm C.P. brass pillar tap	Each	3.00			
211	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. With Flexible pipe 32	Each	5.00			
212	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick	Each	1.00			
213	Providing and fixing soap dish of approved quality including fixing with C.P. brass screws etc. complete.	Each	5.00			
214	Providing and fixing C.P. Brass towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality colour and make. 600mm x 20mm size	Each	2.00			
215	Providing and fixing C.P. Brass towel ring 200 dia size complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality colour and make.	Each	2.00			
216	Providing and fixing Health faucet with concealed fitting arrangement of approved quality colour and make. (Jaquar ALD-565)	Each	2.00			
217	Providing and fixing C.P.brass long body bib cock of approved quality conforming to IS standard and Weighing not less than 690 gms. 15 mm nominal bore.	Each	3.00			
218	Florentine Jaquar Group Long Body Bib Cock with Wall Flange with Aerator (1051071A) Bib Tap Faucet (Wall Mount Installation Type)	Each	2.00			
219	Providing & fixing in position Florentine group JaquarCP Soap dispenser.(	Each	2.00			
220	Providing and fixing CP brass grating with frame of approved design including setting in floor with cement motor to match with floor finish as per architect requirement. a) Size 100 mm X 100 mm	Each	3.00			
221	Providing,fitting and fixing C.P. brass stop cock Jaquar florentine/equivalent model (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore	Each	2.00			
222	Providing,fitting & fixing of basin faucet Jaquar Florentine	Each	2.00			
223	Providing,fitting& fixing of Jaquar Florentine ,Kitchen Sink Cock,	Each	2.00			
224	<b>Total of Subhead</b>					

225	<b>SUBHEAD- XII : DRAINAGE AND RAIN WATER HARVESTING</b>					
226	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.					
227	All kinds of soil. a) Lift 0-1.5 m	Cum	0.00			
228	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 disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.					
229	a) Ordinary rock :Lift 0-1.5 m	Cum	0.00			
230	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 1.5 m, including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50 m : Ordinary Rock.					
231	All Kinds of soil					
232	Pipes, cables etc. not exceeding 80 mm dia	Metre	0.00			
233	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	Metre	0.00			
234	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 Fine sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design:					
235	Inside dimensions 455x610 mm and 45 cm deep for single pipe line :					
236	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	0.00			
237	Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets :					
238	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	0.00			
239	Extra for depth beyond 45 cm of brick masonry chamber :					
240	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	0.00			
241	For 600x850 mm size					
242	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	0.00			
243	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.					
244	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	0.00			
245	Supplying,filling,spreading & levelling stone boulders of size 5 cm to 20 cm ,in recharge pit,in the required thickness,for all leads & lifts all complete as per direction of Engineer -in-charge	Cum	0.00			
246	Supplying,filling,spreading & levelling gravel of size 5 mm to 10 mm ,over the existing layer in recharge pit,in the required thickness,for all leads & lifts all complete as per direction of Engineer -in-charge	Cum	0.00			
247	Supplying,filling,spreading & levelling gravel of size 1.5 mm to 2 mm ,over the existing layer in recharge pit,in the required thickness,for all leads & lifts all complete as per direction of Engineer -in-charge	Cum	0.00			
248	Proving & fixing of factory made precast RCC perforated drain covers having concrete strength M25 of size 1000x450x50 mm,reinforced with 8 mm dia 4nos of longitudinal & 9 nos of cross sectional TMT hoop bars,including providing 50 mm dia perforations @ 100 mm to 125 mm including edge binding with MS flat 50x1.6 mm complete all as per directions of EIC.	Each	0.00			
249	<b>Total of Subhead</b>					