Name Of Work:Repair & Renovation of Civil works at SBILD,Vizianagaram-C Block.(Partly S+3 & Partly G+2)

Sl.No	Description of Work / Item(s)	Units	Qty	Rate	Amount	Amount in Word
1	**REPAIR WORKS**					
2	**SUB HEAD I-DISMANTLING & DIMOLISHING :**					
3	Demolishing cement concrete manually/ by mechanical means including disposal of material as per direction of Engineer - in - charge . Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	Cum	10.00			
4	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	20.00			
5	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material as per direction of Engineer-in-charge. In cement mortar	Cum	10.00			
6	Dismantling & taking out/stacking of doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking : Of area 3 sq. metres and below	Each	60.00			
7	Dismantling tile work in floors and roofs laid in cement mortar including rubbish disposal & stacking material as per direction of Engineer - in-charge. For thickness of tiles 10 mm to 25 mm	Sqm	450.00			
8	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking of usefull material .75 to 80 mm dia pipe	Metre	80.00			
9	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking of usefull material . 100 mm dia pipe	Metre	30.00			
10	Dismantling of toilet fittings/fixtures of all types except WC Pan (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials .	Each	10.00			
11	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground .	Sqm	340.00			
12	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	50.00			
13	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	10.00			
14	**Total of Subhead**					
15	**SUB HEAD II- REPAIRS TO BUILDING**					
16	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. With cement mortar 1:4 (1 cement : 4 fine sand)	Sqm	405.00			
17	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.	Each	30.00			
18	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	Sqm	1350.00			
19	Removing dry or oil bound distemperACRYLIC 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	1350.00			
20	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 50mm average thickness	Sqm	283.00			
21	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 Upto and including 12mm dia.	Each	25.00			

22	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. Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make	Sqm	106.00			
23	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/Sqmm2). 25 mm average thickness in 2 layers	Sqm	50.00			
24	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) . 50mm thick in Grade M 25 with cement content not less than 330 kg per cum	Sqm	180.00			
25	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.) . Stirrer mixed SBR Polymer (of approved make) modified Cement slurry made with Shrinkage Compensating Cement in concrete/RCC work.	Kg	85.00			
26	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.Wooven PVC cloth	Sqm	250.00			
27	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 not 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.25mm thick in Grade M 25 with cement content not less than 330 kg per cum	Sqm	50.00			
28	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 :In 75x75 mm deep chase	Metre	99.00			
29	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	9.00			
30	**Total of Subhead**					
31	**NEW WORKS TO BUILDING**					
32	**SUB HEAD -III ,EARTH WORK EXCAVATION:**					
33	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. All kinds of soil. a) Lift 0-1.5 m	Cum	10.00			
34	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. a) Ordinary rock :Lift 0-1.5 m	Cum	10.00			
35	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. All Kinds of soil. Pipes, cables etc. not exceeding 80 mm dia	Metre	15.00			

36	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. All Kinds of soil . Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	Metre	20.00			
37	**Total of Subhead**					
38	**SUB HEAD -IV ANTI TERMITE TREATMENT:**					
39	Supplying chemical emulsion in sealed containers including delivery as specified.Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	Litre	55.00			
40	Diluting and injecting chemical emulsion for POSTCONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : 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: With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration	Metre	100.00			
41	Along the external wall below concrete or masonry apron us ing chemical emulsion @ 2.25 litres per linear metre includ ing drilling and plugging holes etc. With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration	Metre	96.00			
42	Treatment of soil under existing floors using chemical emul sion @ 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	Sqm	185.00			
43	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 : With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	Metre	96.00			
44	Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos/ 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	345.00			
45	**Total of Subhead**					
46	**SUB HEAD -V: PLAIN & REINFORCED CEMENT CONCRETE:**					
47	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 : .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	10.00			
48	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 .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	20.00			
49	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. 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			
50	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. .1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20mm nominal size).	Cum	1.00			
51	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	1.00			
52	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			
53	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	75.00			
54	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, including cost of centering, shuttering, finishing and reinforcement: 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			

55	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. a) TMT bars of grade Fe-500	Kg	4710.00			
56	Providing & laying specified grade of reinforced cement concrete including cost of centering,shuttering but excluding finishing & reinforcement. All works upto plinth level.	Cum	5.00			
57	Reinforced cement concrete work in beams,suspended floors,roofs having slope upto 15 degree,landings,balconies,lintels,chajjas,bands,plain window sills, staircases above plinth level upto floor V level including cost of centering, shuttering, finishing and reinforcement: 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	5.00			
58	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). Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	Sqm	10.00			
59	**Total of Subhead**					
60	**SUB HEAD- VI : STONE & BRICK MASONARY.**					
61	Brick work with common fly ash (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	15.00			
62	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 : Cement mortar 1:6 (1 cement : 6 Coarse sand)	Cum	10.00			
63	Half brick masonry with non modular fly ash bricks of class designation 10, conformingio IS :12894, in super structure above plinth and upto floor V level. Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Sqm	20.00			
64	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	Sqm	20.00			
65	**Total of Subhead**					
66	**SUBHEAD - VII : PLASTERING & SURFACE TREATMENT :**					
67	Providing of 6mm cement plaster of mix in all surface with cement mortar 1:3 (1 cement : 3 fine sand / M-Sand) at all levels	Sqm	900.00			
68	Providing of 12mm cement plaster of mix in all surface with cement mortar. 1:6 (1 cement : 6 fine sand / M-Sand) at all levels	Sqm	35.00			
69	15 mm cement plaster on the rough side of single or half brick wall. 1:6(1 cement:6 coarse sand)	Sqm	20.00			
70	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.20 mm cement plaster	Sqm	10.00			
71	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	40.00			
72	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	10.00			
73	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	Metre	253.00			
74	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre ,of approved brand, & manufactuerer, including applying additional coats whereever required,to achieve even shade & color. Old work (One or more coats.)	Sqm	2340.00			
75	Finishing walls with water proofing cement paint of required shade : . New work /old work(Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	50.00			
76	White washing with lime to give an even shade :	Sqm	20.00			
77	Finishing walls with textured exterior paint of required shade 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	50.00			
78	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 @ 0.90 liter /10 sqm)	Sqm	1152.00			
79	Applying priming coat : With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works	Sqm	100.00			
80	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two or more coats on new work	Sqm	100.00			
81	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	1440.00			

82	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	20.00			
83	White washing with lime to give an even shade : Old Work(One or More coats)	Sqm	50.00			
84	Distempering with 1st quality acrylic distember (Ready mix) having VOC content less than 50 grams/ litre of approved brand and manufacture to give an even shade . NEW work (one or more coats)	Sqm	10.00			
85	**Total of Subhead**					
86	**SUBHEAD-VIII : FLOORING**					
87	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 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			
88	Providing and fixing 18mm thick gang saw cut mirror polished premoulded 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	2.00			
89	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	2.00			
90	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	Sqm	10.00			
91	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			
92	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 : 4coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with: Udaipur green marble	Sqm	24.00			
93	Extra for marble stone flooring in treads of steps and risers using single length up to 2.00 metre.	Sqm	24.00			
94	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	22.00			
95	Providing and fixing Ist 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)RAK/KAJARIA/EQUIVALENT MAKE. .Cat no-RAK-Breviera grey-A04RZBRE-Gyo.MoU .	Sqm	126.00			
96	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.Double charge vitrified tile polished finish of size.Seine Light Grey or Seine Light Orange Size of Tile 600X600 mm.Cat no-RAK-Breviera grey- A14RZBRE-Gyo.GoR .Cat no-RAK-Breviera grey-mosaic décor- A14RZBRE-Gyo.GRR .	Sqm	325.00			

97	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. Size of Tile 600x600 mm	Sqm	50.00			
98	GVT-Cem Avorio OR Cimentina White . 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	70.00			
99	**Total of Subhead**					
100	**SUBHEAD-IX : STEEL, JOINERY &WOOD WORK.**					
101	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:35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws (all doors)	Sqm	69.00			
102	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:25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges IS : 3818 marked with necessary screws.	Sqm	8.00			
103	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	52.00			
104	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 hellow 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	21.00			
105	Kiln seasoned and chemically treated hollock wood	Sqm	12.00			
106	Providing and fixining teak wood lipping of size 25x3 mm in pelmet	Rmt	64.00			
107	Providing and fixing IS: 12817 marked stainless steel butt hinges with stainless steel screws etc. complete(100x58x1.90)mm	Each	72.00			
108	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-incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts,fasteners etc.).	kg	160.00			
109	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			
110	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete : 250 x 10 mm	Each	30.00			
111	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete 100 x 10 mm	Each	5.00			
112	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 :125 mm	Each	11.00			
113	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 :100 mm	Each	11.00			
114	Providing and fixing PTMT Tower Bolts with 12 mm one piece rod inside and necessary screws etc., complete .152x42x18 mm weighing not less than 60 gms	Each	11.00			

115	Providing and fixing PTMT Tower Bolts with 12 mm one piece rod inside and necessary screws etc., complete 202x42x18 mm weighing not less than 78 gms	Each	11.00			
116	Fixed window / ventilator made of (small series) using R1 series with frame (33mm abobe)x(35 mm above) height upto 0.90 m.	Sqm	4.00			
117	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 waqll 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 Govermment Engineering Institute, to provided by the manufacturer for (i) Sites with basic wind speed >45 m/sec as per IS 875 - Part 3(ii)Sites with structure height more than 20m for all wind speeds Two and half track three panels sliding window with	Sqm	68.00			
118	**Total of Subhead**					
119	**SUBHEAD- X : ROOFING & WATER PROOFING**					
120	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). 110 mm diameter	Metre	120.00			
121	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.110 mm diameter	Each	61.00			
122	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	20.00			
123	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	Sqm	10.00			
124	**Total of Subhead**					
125	**SUBHEAD-XI : SANITARY SERVICES**					

126	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.OPS-WHT-15753P180UFSMZ/\or 15753NP180UFSMZ	Each	10.00			
127	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.size 630x450 mm with a pair of 15 mm C.P. brass pillar tap	Each	10.00			
128	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 bracketssize 550x400 mm with a pair of 15 mm C.P. brass pillar tap	Each	10.00			
129	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. With Flexible pipe 32 mm dia	Each	10.00			
130	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.	Each	10.00			
131	Providing and fixing soap dish of approved quality including fixing with C.P. brass screws etc. complete.	Each	10.00			
132	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	10.00			
133	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	5.00			
134	Providing and fixing Health faucet with concealed fitting arrangement of approved quality colour and make. (Jaquar ALD-565)	Each	10.00			
135	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	10.00			
136	Florentine Jaquar Group Long Body Bib Cock with Wall Flange with Aerator (1051071A) Bib Tap Faucet (Wall Mount Installation Type)	Each	10.00			
137	Providing & fixing in position Florentine group JaquarCP Soap dispenser.(	Each	5.00			
138	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	10.00			
139	Providing,fitting and fixing C.P. brass stop cock Jaquar florentine/equvalent model (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore	Each	10.00			
140	Providfing,fitting & fixing of basin faucet Jaquar Florentine	Each	10.00			
141	Providing,fitting& fixing of Jaquar Florentine ,Kitchen Sink Cock,	Each	5.00			

142	**Total of Subhead**					
143	**SUBHEAD- XII : DRAINAGE AND RAIN WATER HARVESTING**					
144	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. All kinds of soil. a) Lift 0-1.5 m	Cum	23.00			
145	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.a) Ordinary rock :Lift 0-1.5 m	Cum	23.00			
146	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.All Kinds of soil.Pipes, cables etc. not exceeding 80 mm dia	Metre	50.00			
147	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.All Kinds of soil. Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	Metre	50.00			
148	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: Inside dimensions 455x610 mm and 45 cm deep for single pipe line :With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	4.00			
149	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 .Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets :With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	4.00			
150	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 .Extra for depth beyond 45 cm of brick masonry chamber :With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	3.00			

151	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. For 600x850 mm size.With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	5.00			
152	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. With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	1.00			
153	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	3.00			
154	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	3.00			
155	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	3.00			
156	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	200.00			
157	**SUBHEAD-XIII : MISCELLANEOUS**					
158	Providing & fixing GRC panel (60mm thick) on external walls as per the architectural drawing. Fixing to be done on external wall including the necessary SS clamps, scaffoldings required etc. complete by specilised vendor in strict supervision of manufacturer as per direction of Engineer-in-Charge. 60 MM THICK	Sqm	24.00			
	Total of Subhead					