

CONSTRUCTION OF ANIMAL HOUSE FOR MULTIDISCIPLINARY RESEARCH LABORATORY AT MEDICAL COLLEGE, THIRUVANANTHAPURAM					
Item No	Description of Item	Quantity	Unit	Rate (in words & figures) Rs	Amount Rs
PART - II A (CIVIL WORKS)					
SUB HEAD - I EARTH WORK EXCAVATION					
1	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	936.00	sqm		
2	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.				
a	Beyond 30 cm girth upto and including 60 cm girth	2	each		
b	Beyond 240 cm girth	2	each		
3	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, including all lifts and leads, disposed earth to be levelled and neatly dressed. and as directed by the Engineer in charge. All kinds of soil	120.00	cum		
4	Earth filling with contractors own earth (excluding rock)in trenches,plinth sides of foundations etc in layers not exceeding 20 cm in depth,consolidating each deposited layer by ramming and watering including all lifts and leads and as directed by the Engineer in charge.	15.00	cum		
5	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, including getting out the excavated soil and disposal of surplus excavated soil as directed, including all lifts and leads and as directed by the Engineer in Charge. All kinds of soil.	1455.86	cum		

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6	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, including all lifts and leads and as directed by the Engineer in charge	1428.05	cum		
7	Supplying and filling in plinth with river sand / M sand under floors including watering, ramming, consolidating and dressing complete, including all lifts and leads and as directed by the Engineer in Charge. River sand/ M sand	57.37	cum		
8	Providing anti-termite treatment and creating a chemical barrier to the building by injecting chemical emulsion of required concentrations under raft slab and beam and around the footings. Column pits, trenches, pits, tunnels, wall trenches, back fill, plinth filling junction of wall and floor, side walls of basement floor external perimeter of building, surrounding of pipes, expansion joints, etc., as per IS specification and as per instructions of chemical manufacturer and also as directed. The treatment shall be carried out strictly in accordance with IS 6313 - Part II - Latest issue etc. complete. The work shall include the cost of all materials, cost of labour, cost of equipment and machinery, hire charges of equipments & machinery, lead & lift, loading and unloading, transportation and all other incidental charges etc., complete. The work shall be carried out as per the directions of the Engineer-in-Charge of the work.				

Item No	Description of Item	Quantity	Unit	Rate (in words & figures) Rs	Amount Rs
	Note: Plinth area of the building at Ground floor will be measured and paid for.	451.00	sqm		
	SUB HEAD - III - PLAIN CEMENT CONCRETE				
9	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	110.62	cum		
10	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size).and Applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	86.48	sqm		
11	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.	376.00	sqm		
	SUB HEAD - IV - REINFORCED CEMENT CONCRETE				
12	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing & reinforcement, but including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. All works upto plinth level	354.30	cum		
12	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, but including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. All works above plinth level upto floor V level	251.88	cum		

Item No	Description of Item	Quantity	Unit	Rate (in words & figures) Rs	Amount Rs
13	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, etc., up to floor five level, excluding the cost of centering, shuttering and finishing : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	5.00	cum		
14	Add for using extra cement in the items of design mix over and above the specified cement content therein.	424.33	Quntl		
15	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo Mechanically Treated bars	91677.00	kg		
16	Centering and shuttering including strutting, propping etc. and removal of form for :				
a	Foundations, footings, bases of columns, etc. for mass concrete	172.20	sqm		
b	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	512.81	sqm		
c	Suspended floors, roofs, landings, balconies and access platform	1083.98	sqm		

Item No	Description of Item	Quantity	Unit	Rate (in words & figures) Rs	Amount Rs
d	Lintels, beams, plinth beams, girders, bressumers and cantilevers	371.19	sqm		
e	Columns, Pillars, Piers, Abutments, Posts and Struts	457.35	sqm		
f	Stairs, (excluding landings) except spiral-staircases	114.40	sqm		
g	Weather shade, Chajjas, corbels etc., including edges	451.20	sqm		
SUB HEAD V : BRICK WORK					
17	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 50 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	51.89	cum		
18	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 50 in superstructure above plinth level up to floor V level in all shapes and sizes :in cement mortar 1 : 6 (1 cement : 6 coarse sand).	216.53	cum		
19	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 50 in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement :4 coarse sand)	261.55	sqm		
20	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	190.03	sqm		
SUB HEAD :VI GRANITE WORK					

Item No	Description of Item	Quantity	Unit	Rate (in words & figures) Rs	Amount Rs
21	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade Area of slab over 0.50 sqm	104.11	sqm		
22	Providing edge moulding to 18 mm 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	130.00	Rm		
SUB HEAD VII: WOOD WORK					
23	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position (a) Vilot or Pincoda wood	0.04	cum		
24	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. Second class teak wood - 30 mm thick shutters	2.52	sqm		
25	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :	2.52	sqm		
26	Providing 40x5mm flat iron hold fast 40cm long including fixing to frame with 10mm diameter bolts,nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix(1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size.	5.00	each		
27	Providing and fixing 18mm thick marine plywood exterior grade of approved make for cup board shelves including necessary screws, nails,gum etc complete as per the direction of engineer-in - charge	12.34	sqm		

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28	Providing and fixing cupboard shutters with 18mm thick marine plywood ISI marked exterior grade of approved make including IInd class teak wood lipping of 18mm wide x12 mm thick with necessary screws,75mm stainless steel handle and bright finished stainless steel piano hinges etc. complete as per direction of Engineer -in-charge	3.04	sqm		
29	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality).	6.00	each		
30	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete : 125x70x4 mm (ordinary type)	32.00	each		
SUB HEAD VIII: STEEL WORK					
31	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings /wooden frames with rawl plugs screws etc	2415.00	Kg		
32	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes	480.00	kg		
33	Providing and fixing M.S. fan clamp type I of 16 mm dia M.S. bar bent to shape with hooked ends in R.C.C. slabs during laying including painting the exposed portion of loop , all as per standard design complete .	40.00	each		
SUB HEAD IX : FLOORING					
34	Providing and fixing 1st quality ceramic glazed wall tiles (Size 300 x400) conforming to IS:15622of thickness 5 mm or nearest size 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 12mm 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. as approved by Engineer in charge (Basic Price of Tile not less than Rs.400 per Sqm)	1573.00	sqm		

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35	Providing and laying Ceramic joint free antiskid floor tiles of size 400x400 mm ,thicknes 7.5mm or nearest size of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white Cement and matching pigments etc.complete.as approved by Engineer in charge (Basic price of Tile not less than Rs.370per sqm).	22.37	sqm		
36	Providing and laying vitrified floor tiles of (Size of Tile 600x600 mm) of 10mm thickness or nearest size with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.as approved by Engineer in charge. (Basic price of Tile not less than Rs. 865 per sqm)	743.00	sqm		
37	Chequerred precast cement concrete tiles, 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand). Light shade pigment using white cement. (Basic price of Tile not less than Rs. 470 per sqm)	50.69	sqm		
38	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete and as per the direction of Engineer-in-charge. (Basic price of Block not less than Rs.325 per sqm.)	500.00	sqm		
	SUB HEAD X : ROOFING				
39	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter	84.60	Rm		
40	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	54.00	each		

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41	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15cm diameter and weighing not less than 440 grams.	12.00	each		
42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. bend 87.5 degree				
a	110 mm bend.	24.00	each		
	Shoe(plain)				
b	110 mm shoe	12.00	each		
43	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	28.60	sqm		
44	Providing and fixing semicircular 110mm PVC pipe for gutter with iron brackets 40 x 3 mm size, bolts, nuts and washers including making necessary connections with rain water pipes complete.	12.00	Rm		
	SUB HEAD XI : FINISHING				
45	6 mm cement plaster of mix:1:3(1 cement:3 fine sand)	2922.17	sqm		
46	15mm cement plaster on rough side of single or half brick wall of mix 1:6 (1 cement : 6 coarse sand)	328.27	sqm		

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47	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)	1247.16	sqm		
48	18 mm cement plaster in two coats under layer 12 mm thick cementplaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	1251.11	sqm		
49	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work .	1501.03	sqm		

Item No	Description of Item	Quantity	Unit	Rate (in words & figures) Rs	Amount Rs
50	Finishing walls with Acrylic smooth exterior paint of required shade:- New work (Two or more coats applied @ 1.67 ltr/10 sqm over and including base coat of water proofing cement paint applied @ 2.2 kg/10sqm.)	1279.46	sqm		
51	Polishing on wood work with ready mixed wax polish of approved brand and manufacture :New work	22.68	sqm		
52	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	150.96	sqm		
53	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.With ready mixed red oxide zinc chromatic on steel /iron works having VOC content less than 250 grams/litre	151.00	sqm		
54	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	290.00	sqm		
	SUB HEAD XII : MISCELLANEOUS(PVC WORK)				
55	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer- in-charge Extruded section profile size 48x40 mm	56.00	Rm		

Item No	Description of Item	Quantity	Unit	Rate (in words & figures) Rs	Amount Rs
56	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats.	17.00	sqm		
SUB HEAD XIII : SANITARY INSTALLATIONS& WATER SUPPLY					
57	Providing and fixing white vitreous china pedestal type water closet (European type W.C.pan) with seat and lid, 10 litre low level P.V.C. flushing cistern with manually controlled device (handle lever), conforming to IS : 7231, Parryware/ Hindware/ Seabrid / Orient (Coral) with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :-	4.00	each		
58	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	8.00	each		
59	Providing and fixing P.V.C waste pipe for sink or wash basin, including P.V.C waste fittings complete :- Flexible pipe :-32 mm dia.	8.00	each		
60	Providing and fixing PVC trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors a)100mm inlet and 75mm outlet.	10	Each		
61	Providing and jointing PVC pipes of (pressure10 Kg/cm ²) for water supply including testing of joints, concealing the pipes, & trenching & refilling wherever required etc complete.				

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a	20mm PVC pipe	40	Rm		
b	25mm PVC pipe	50	Rm		
c	32mm PVC pipe	30	Rm		
d	40mm PVC pipe	30	Rm		
62	Providing and fixing PTMT grating of approved quality and colour. 150 mm nominal size square 100 mm diameter of the inner hinged round grating.	10.00	NOS		
63	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15mm nominal bore	2.00	NOS		
64	Providing and fixing unplasticised rigid P.V.C pipe conforming to IS Standards (pressure 6kg/cm ²) in drainage lines including cutting and making good the walls, cutting and refilling of earth, jointing all etc complete				
a	110mm dia	30.00	Rm		
b	75mm dia	60.00	Rm		
65	Providing & fixing PVC Fittings and fixtures conforming IS specifications including cutting and making good the walls etc complete				
a	110mm dia plain elbow	20	each		

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b	75mm dia plain elbow	20	each		
c	110mm dia door elbow	20	each		
d	75mm dia door elbow	10	each		
e	110mm dia plain bend	20	each		
f	75mm dia plain bend	10	each		
g	110mm dia door tee	10	each		
h	75mm dia door tee	10	each		
i	110mm dia air cowl	5	each		
j	75mm dia air cowl	5	each		
k	110mm dia offset	10	each		

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1	75mm dia offset	10	each		
66	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 15mm nominal bore	2.00	each		
67	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.15mm nominal bore	18.00	each		
68	Providing and fixing unplasticised P.V.C connection pipe with brass unions :- 45 cm length				
a	15MM nominal bore	18.00	each		
69	Providing and fixing gun metal gate valve with CI wheel of approved quality(screwed end) .				
	32 mm dia nominal bore	2.00	each		
70	Providing and fixing ball valve (brass) of approved quality complete. High or low pressure with plastic floats 25 mm nominal bore	2.00	each		
	DRAINAGE				
71	Providing and fixing Porcelain Gully trap of 300 x 300 mm inside dimension for the waste line with cement concrete in 1:4:8 (1cement:4coarse sand: 8 graded stone aggregate 40mm nominal size) for foundation and with necessary brick masonry in cement mortar 1:4(1cement:4coarse sand) and plastering with 12mm thick cement plaster in cement mortar 1:4 (1cement:4 fine sand) including neat cement flushing coat and providing RCC top slab with 1:2:4 mix etc complete	2.00	each		

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72	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	5.00	each		
73	Extra for depth for manholes :- With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2.00	m		
74	Constructing soak pit 1.20x1.20x1.20 m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	4.00	each		
75	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape 453x357 mm	4.00	each		
76	Providing and fixing CP towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	4.00	each		
77	Providing and fixing CP soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	4.00	each		

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	SUB HEAD XIV : ALUMINIUM WORK				
78 a	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : a) For fixed portion . Powder coated aluminium (minimum thickness of powder coating 50 micron) of required colour as directed by the engineer in charge.	2717.00	kg		
78.b	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron) of required colour as directed by the engineer in charge.	897.00	kg		
79	Providing and fixing 12 mm thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. Pre-laminated particle board with decorative lamination on both sides	64.17	sqm		
80. a	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5.50 mm thickness	85.56	sqm		
80. b	With float glass panes of 4.0 mm thickness	2.00	sqm		
81	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . With toughened glass panes of 12.0 mm thickness	176.17	sqm		

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82	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With stainless steel cover plate minimum 1.25 mm thickness	27.00	each		
83	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete- 300x16mm	8.00	each		
84	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 nuts and screws etc. complete-				
a	125mm	8.00	each		
b	100mm	8.00	each		
85	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete-				
a	250 X 10 mm	53.00	each		
b	150x10mm	53.00	each		

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86	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	26.00	each		
87	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) Transparent or dyed to required colour and shade, with necessary screws etc. complete. Twin rubber stopper	26.00	each		
88	Providing and fixing froasted/mat film of thickness 25 microns self adhesive of approved colour, shade and quality with cutting as per approved design and pattern including cleaning of glass and making surface smooth for fixing of film all complete as per direction of Engineer in charge	50.00	sqm		
89	Supplying and fixing hand rails with 304 grade and 16 gauge stainless steel pipe for stair cases with 1 No. polished stainless steel pipe of 50mm diameter at top and newel post and SS 304, 16gauge ,25mm dia 2nos polished stain less steel pipe middle horizontal and 0.30m centre to centre vertical(approximately) welded together , including all necessary fittings etc.. as per the drawing and direction of the Engineer . in . charge. Hand rails shall be fixed in the floor/steps with expansion hold fasters of required size including drilling etc.complete	11.00	Rm		
	SUB HEAD : XV WATER PROOFING				
90	Providing and laying in cement concrete in kerbs,steps and the like at or near ground level etc excluding cost of centering shuttering,and finishing 1:2:4 mix (1 cement :2 coarse sand:4 graded stone aggregate 20mm nominal size)	19.00	cum		
91	Providing 12mm thick cement plaster of mix1:3 (1cement:3course sand) finished with floating coat of neat admixed with water proofing material impermo or equivalent over terrace for water proofing treatment	376.00	sqm		

Item No	Description of Item	Quantity	Unit	Rate (in words & figures) Rs	Amount Rs
	SUB HEAD XVI : SEPTIC TANK & SOAK PIT				
92	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.	221.76	cum		
93	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth: 1 : 5 : 10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size).	10.00	cum		
94	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing & reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. All works upto plinth level	24.25	cum		
95	Centering and shuttering including strutting, propping etc. and removal of form for :				
a	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	211.20	sqm		
96	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 50 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	0.31	cum		
97	12 mm cement plaster finished with a floating coat of neat cement of mix :- 1 : 3 (1 cement : 3 fine sand) .	71.75	sqm		
98	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	48.00	Sqm		

Item No	Description of Item	Quantity	Unit	Rate (in words & figures) Rs	Amount Rs
99	Providing M.S. foot rests including fixing in manholes with 20 x 20 x 10 cm cement concrete blocks 1 : 3 : 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :- With 20 mm diameter round bar	8.00	each		

Item No	Description of Item	Quantity	Unit	Rate (in words & figures) Rs	Amount Rs
100	Supplying and fixing C.I. cover with frame for manholes, 455 x 610 mm rectangular C.I cover (light duty), the weight of the cover to be not less than 23 kg. And frame not less than 15 kg	4.00	each		
101	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.	2.00	each		
102	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up tohaunches of S.W. pipes including bed oncrete as per standard design : 100 mm diameter PVC. pipe	80.00	Rm		
103	Providing and filling up to floor five level surkhi inside of sunken floor 1:2(1 lime:2surkhi)as directed by the engineer incharge	7.00	cum		
	Total -Part IIA - Civil works				