

Name of work: Construction of Academic Block No.V at College of Engineering , Thalassery					
Tender schedule - Appendix A : Building proper with watre supply and sanitary works.					
Sl.No.	Quantity	Description	Unit	Rate in figures & words	Amount.
1	4800 m2	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 50m outside the periphery of the area cleared (SH: 2.31)	100 m2	Rs.853.50 (Rs.Eight hundred and fiftythree and paise fifty)	40,968
2	19 Nos.	Felling trees of girth (measured at a height of 1 m, above grouond level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material - Beyond 30 cm girth up to and including 60 cm girth (SH: 2.33.1)	Each	Rs.259.70 (Rs.Two hundred and fiftynine and paise seventy)	4,934
3	360m3	Earth work excavation by mechanical means (Hydraulic excavator)/Manual means over areas (exceeding 30 cm depth 1.5m in width as well as10 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 (SH- 2.6.1)	m3	Rs.169.75 Rs. One hundred and sixty nine and paise seventyfive	61,110
4	3250 m3	Earth work excavation by mechanical means (Hydraulic excavator)/Manual means over areas (exceeding 30 cm depth 1.5m in width as well as10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m,disposed earth to be levelled and neatly dressed- Ordinary rock (SH- 2.7.1)	m3	Rs.289.10 (Rs. Two hundred and eightynine and paise ten)	9,39,575
5	70 m3	Earth work excavation by mechanical means (Hydraulic excavator)/Manual means over areas (exceeding 30 cm depth 1.5m in width as well as10 sqm on plan) including disposal of excavated earth	m3	Rs.172.00 (Rs.One hundred and seventytwo only)	12,040

Contractor

Director.

6	615 m3	Earth work excavation by mechanical means (Hydraulic excavator)/manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m - Ordinary rock (SH: 2.9.1)	m3	Rs.312.00 Rs.Three hundred and twelve only)	1,91,880
7	5 M3	Earth work excavation by mechanical means (Hydraulic excavator)/manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m - Hard rock (Blasting prohibited) (SH: 2.9.3)	M3	Rs.734.00 (Rs.seven hundred and thirtyfour only)	3,670
8	410 m3	Supplying and filling gravelly earth in plinth under floors, including watering, ramming, consolidating and dressing etc complete. (SH: 2.27)	m3	Rs.505.00 Rs.Five hundred and five only)	2,07,050
9	196 m	Supplying chemical emulsion in sealed containers including delivery as specified and diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti termite treatment along external wall where the apron is not provided using chemical emulsion @ 7.5 lites/sqm of 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% WIHT 1% CONCENTRATION (sh: 2.341 AND 2.35.2.1)	m	Rs.96.50 (Rs.Ninetysix and paise fifty)	18,914

10	86 m3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering 1:4:8(1 cement :4 coarse sand :8 graded stone aggregate 40mm nominal size) (SH: 4.1.8)	m3	Rs.5,629.30 (Rs.Five thousand six hundred and twentynine and paise thirty)	4,84,120
11	115 m3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 40 mm nominal size - (SH: 4.1.6)	m3	Rs.5,993.00 (Rs.Five thousand nine hundred and ninetythree only)	6,89,195
12	185 m3	Providing and laying in position specified grade of reinforced cement concrete1: 1.5 : 3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate of 20mm nominal size), excluding the cost of centering, shuttering, finishing and reinforcement for all works upto plinth level. (SH: 5.1.2)	m3	Rs.7,655.85 (Rs.Seven thousand six hundred and fiftyfive and paise eightyfive)	14,16,333
13	1.85 m3	Providing and laying in position specified grade of reinforced cement concrete1: 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20mm nominal size), excluding the cot of centering, shuttering, finishing and reinforcement for all works upto plinth level. (SH: 5.1.3)	m3	Rs.7005.00 (Rs.Seven thousand and five only)	12,950
14	660 m3	Providing and laying in position reinforced cement concrete 1: 1.5 : 3 using 20mm nominal size granite stone of machine mixed and machine vibrated cement concrete, watering, curing etc complete for all works in beams, suspended floors,roofs having slope upto 15 degree landing, balconies, shelves chajjas, lintels, bands, plain window sills,staircases and spiral staircases upto floor five level excluding the cost of centering, shuttering, finishing and reinforcement (SH: 5.3)	m3	Rs.9,078.70 (Rs.Nine thousand and seventyeight and paise seventy)	59,91,942

15	90 m3	Providing and laying in position reinforced cement concrete work in walls (any thickness) including attached pillasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc upto floor five level excluding cot of centering, shuttering, finishing and reinforcement using cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size) (SH : 5.2.2)	m3	Rs.8513.10 (Rs.Eight thousand five hundred and thirteen and paise ten)	7,66,179
16	100m2	Centering and shuttering including strutting,propping etc and removal of form for Foundations,footings,bases of columns,etc for mass concrete (SH: 5.9.1)	m2	Rs.215.00 (Rs.Two hundred and fifteen only)	21,500
17	1240 m2	Centering and shuttering including strutting,propping etc and removal of form for walls (any thickness) including attached pillasters buttresses plinth and string courses etc.(SH: 5.9.2)	m2	Rs.424.40 (Rs. Four hundred and twentyfour and paise forty)	5,26,256
18	1250 m2	Centering and shuttering including strutting,propping etc and removal of form for Columns, pillars, piers, abutments, posts and struts etc (SH:5.9.6)	m2	Rs.521.20 (Rs.Five hundred and twentyone and paise twenty)	6,51,500
19	2500 m2	Centering and shuttering including strutting,propping etc and removal of form for Lintels, beams, plinth beams, girders, bressumers,and cantilevers (SH:5.9.5)	m2	Rs.386.40 (Rs.Three hundred and eightysix and paise forty)	9,66,000
20	260 m2	Centering and shuttering including strutting,propping etc and removal of form for small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like (SH:5.9.15)	m2	Rs.215.00 (Rs.Two hundred and fifteen only)	55,900

21	3550 m2	Centering and shuttering including strutting,propping etc and removal of form for suspended floors, roofs, landings, balconies and access platform (SH:5.9.3)	m2	Rs.476.70 (Rs.Four hundred and seventysix and paise seventy)	16,92,285
22	70 m2	Centering and shuttering including strutting,propping etc and removal of form for stairs (excluding landings), except spiral-staircases (SH:5.9.7)	m2	Rs.434.65 (Rs.Four hundred and thirtyfour and paise sixtyfive)	30,426
23	120,000kg	Steel reinforcement for RCC work including straightening , cutting , bending placing in position and binding all complete above plinth level-(Thermo-Mechanically-Treated bars) (SH: 5.22A.6)	Kg	Rs.73.55 (Rs.Seventythree and paise fiftyfive)	88,26,000
24	35 m3	Laterite work neatly dressed stone of size 35 x 20 x 20 cm in cement mortar 1:6 including all cost of materials, conveyance, labour, watering, curing etc for foundation and basement.	m3	Rs.3954.00 (Rs.Three thousand nine hundred and fiftyfour only)	1,38,390
25	13m3	Laterite work roughly dressed stone of dry masonry using stone of size 35 x 20 x 20 cm including all cost of materials, conveyance, labour, watering, curing etc	m3	Rs.2831.00 Rs.Two thousand eight hundred and thirty one only)	36,803
26		Laterite work neatly dressed stone of size 35 x 20 x 20 cm in cement mortar 1:6 including all cost of materials, conveyance, labour, watering, curing etc for for superstructure.			
	225 m3	a. In Ground floor:	m3	Rs.4,046.00 Rs.Four thousand and fortysix only)	9,10,350
	185 m3	b. First floor:	m3	Rs.4,138.00 (Rs. Four thousand one hundred and thirtyeight only)	7,65,530
	185 m3	c. Second floor:	m3	Rs,4,230.00 (Rs.Four thousand two hundred and thirty only)	7,82,550

	17 m3	d. Third floor:	m3	Rs.4,322.00 (Rs.Four thousand three hundred and twentytwo only)	73,474
27	6.5 m3	Providing and fixing upto floor five level precast cement concrete hollow block including hoisting and setting in position with cement mortar 1:6 (1 cement : 6 coarse sand) inclusive of all cost of materials, labour, etc complete.	m3	Rs.7,039.40 (Rs.Seven thousand and thirtynine and paise forty)	45,756
28	875 m2	Flooring with Cement Concrete 1:4:8 (1 cement : 4 Coarse sand ; 8 Granite stone of 40mm nominal size) laid to 75mm thick well consolidated, etc inclusive of all cost of materials, labour, watering, curing etc. as per direction of the Engineer-in-charge.	10 m2	Rs.4,222.00 (Rs.Four thousand two hundred and twentytwo only)	3,69,425
29	4730 m2	Plastering(cement plaster) with Cement Mortar 1:3 (1 cement, 3 fine sand) 6mm thick , to the under side of roof slab including all cost of materials and labour charges, watering, curing etc complete (SH: 13.16.1)	m2	Rs.154.40 (Rs.One hundred and fiftyfour and paise forty)	7,30,312
30	1310 m2	Extra for providing water proofing Compound to plastering item in proportion specified by the manufacture etc. complete (SH: 13.21)	m2	Rs.5.50 (Rs.five and paise fifty)	7,205
31	1300 m2	Plastering (cement plaster) with Cement Mortar 1:3 (1 cement, 3 coarse sand) finished with a floaing coat of neat cement, 12 mm thick , for septic tank and drain etc. including all cost of materials and labour charges etc complete (SH: 13.9.1)	m2	Rs.270.40 (Rs.two hundred and seventy and paise forty)	3,51,520
32	8500 m2	Plastering with Cement Mortar 1:4 (1 cement ,4 coarse sand) , 12mm thick , to the internal and external walls including all costs of materials and labour charges watering , curing etc complete (SH: 13.4.1)	m2	Rs.214.30 (Rs.two hundred and fourteen and paise thirty)	18,21,550

33	10300Kg	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 opening/wooden frames with rawl plugs screws etc. (SH: 9.48.2)	Kg	Rs.136.90 (Rs.One hundred and thirtysix and paise ninety)	14,10,070
34	12900 m2	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade - two or more coats on new work. (SH : 13.60.1)	m2	Rs.82.00 (Rs.eightytwo only)	10,57,800
35	400 m2	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade - two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture. (SH : 13.62.1)	m2	Rs.106.30 (Rs.One hundred and six and paise thirty)	42,520
36	550 m2	Painting Steel work with Deluxe Multi Surface paint to given an even shade - two or more coat applied @ 0.90 litre/10sqm over an under coat of primer applied @ 0.80 litre/10 sqm of approved brand and manufacture (SH : 13.48.3)	m2	Rs.92.00 (Rs.Ninetytwo only)	50,600
37	2500 m2	Providing and laying vitriified floor tiles in different sizes (thickness to be specified by the manufacturer)with water absorption less than 0.08% and conforming to IS 15622,of approved make,in all colours and shades,laid on 20mm thick cement mortar 1:4(1 cement ,4 course sand),including grouting the joints with white cement and matching pigments etc,complete(Size of tile 600 x 600 mm) (SH: 11.41.2)	m2	Rs.1,548.80 (Rs.One thousand five hundred and fortyeight and paise eighty)	38,72,000

38	140 m ²	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer)with water absorption less than 0.08% and conforming to IS 15622,of approved make,in all colours and shades in skirting, riser of steps over 12mm thick bed of cement mortar 1:3(1 cement ,3 course sand),including grouting the joints with white cement and matching pigments etc,complete(Size of tile 600 x 600 mm) (SH: 11.46.2)	m ²	Rs.1,542.00 (Rs.One thousand five hundred and fortytwo only)	2,15,880
39	75 m ²	Providing and fixing 18mm thick gang saw cut, mirror polished premoulded and pre polished, machine cut for kitchen platforms, vanity counters, window sills, facies 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 level - granite of any colour and shade - Area of slab upto 0.50 sqm. (SH : 8.2.2.1)	m ²	Rs.3766.40 (Rs.Three thousand seven hundred and sixtysix and paise forty)	2,82,480
40	200 m	Extra for providing edge moulding to 18mm thick granite stone counters, vanities etc. including machine polishing to edge to high gloss finish etc. complete as per design approved by Engineer-in-charge (SH : 8.3.2)	m	Rs.321.20 (Rs.Three hundred and twentyone and paise twenty)	64,240

41	110 m2	Providing and laying anti-skid Ceramic glazed floor tiles of size 300 x 300mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622 , of approved make, in all colours , shade, except White, Ivory, Grey, Fume Red Brown, laid on 20mm thick cement mortar 1:4 (1 cement : 4 course sand),including pointing the joints with white cementand matching pigment ,etc complete (SH: 11.38)	m2	Rs.912.00 (Rs.Nine hundred and twelve only)	1,00,320
42	470 m2	Providing and fixing 1st quality ceramic glazed wall tiles confirming to IS :15622 (thickness to be specified by 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 or steps and dados,over 12 mm thick bed of cement mortar 1:3 (1 cement :3 course sand)and jointing with grey cement slurry @3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete (SH: 11.36)	m2	Rs.978.00 (Rs.Nine hundred and seventyeight only)	4,59,660
43	4 m3	Providing wood work with well seasoned good quality IRUL WOOD in frames of doors,windows ,clerestory windows and other frames,wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia &length(hold fast lugs or dash fastener shall be paid for seperately)-(SH: 9.1.1)	m3	Rs.72,963.00 (Rs.Seventytwo thousand nine hundred and sixtythree only)	2,91,852

44	160 m2	Providing and fixing panelled or panelled and glazed shutters for door, windows and clerestery window, including ISI marked MS pressed butt hinges bright finished of required size with necessary screw, excluding panelling which will be paid for seperatel, all complete as per direction of Engineer -in-charge (Using good quality IRUL WOOD -35mm thick shutters)-(SH: 9.5.1.1)	m2	Rs.2,091.00 (Rs.Two thousand and ninetyone only)	3,34,560
45	110 m2	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 25mm to 40mm thick- (using good quality IRUL WOOD) (SH: 9.7.1)	m2	Rs.1,651.00 (Rs.One thousand six hundred and fiftyone only)	1,81,610
46	120 m	Providing and fixing factory made uPVC door frame made of uPVC extruded sections of size 65mm x 55mm with wall thickness 2 mm (+/-0.2mm) corners of the door frame to be mitred cut and jointed with plastic brackets and stainless steel screws reinforcing hinge side vertical of the frames with PVC profile of size 28mm x 30mm having wall thickness 2 mm (+/-0.2 mm) including providing and fixing 3 nos of 125mm long stainless steel hinges to the frame ,fixing the frame with jamb with required number &size of anchor dash fastener, all complete as per manufacturers specifications and direction of Engineer in charge (SH: 9.143)	m	Rs.403.10 (Rs.Four hundred and three and paise ten)	48,372

47	40 m2	Providing and fixing 37mm thick factory made PVC door shutter, styles and rails made of PVC hollow section of size 100 mm x 37 mm with wall thickness 2 mm (+/-0.2 mm)with inbuilt bead on one side, styles and rails mitered cut and joint at the corners by means of 2 nos of plastic brackets of size 75mm x 220 mm at each corner and stainless steel screws, reinforcing the hinge side of style by inserting PVC profile of size 100 mm x 37 mm, wall thickness 2mm(+/-0.2 mm) will be fixed to the vertical styles. Providing with PVC snapfit beads and panel of size 100 mm x 20 mm and inserting 2 nos tie bar of 6 mm dia and fastening with nuts and washers complete, all as per manufacturer's specification and direction of Engineer-in-charge. (SH : 9.144)	m2	Rs.2,778.90 (Rs.Two thousand seven hundred and seventyeight and paise ninety)	1,11,156
48	7 m2	Providing and fixing 1mm thick MS sheet door with frame of 40 x 40 x 6mm angle iron and 3mm MS Gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer - using M.S. angles 40x40x6 mm for diagonal braces (SH: 10.5.1)	m2	Rs.3,348.00 (Rs.Three thousand three hundred and fortyeight only)	23,436

49	2850 Kg	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 fastener of required dia and size including necessary filling up of 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 / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately) : Powder coated aluminium (Minimum thickness of powder coating 50 microns)(SH:21.1.1.2)	Kg	Rs.358.15 (Rs.Three hundred and fiftyeight and paise fifteen)	10,20,728
50	3300 Kg	Do. Do. For shutters of doors, windows and ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings wherever required including cost of EPDM rubber/neoprene gasket reured (Fittings shall be paid for separately)- Powder coated aluminium (minimum thickness of powder coating 50 microns) (SH: 21.1.2.2).	Kg	Rs.423.15 (Rs.Four hundred and twentythree and paise fifteen)	13,96,395
51	570 m2	Providing and fixing glazing in aluminium door, window, ventilator shutter and paritions etc., with EPDM rubber/neopreme gasketetc., complete as per the archetural drawings and the directions of Engineer-in-charge (cost of aluminium snap beeding shall be paid in basic item) - with float glass panes of 4.0mm thickness (SH:21.3.1)	m2	Rs.891.10 (Rs.Eight hundred and ninetyone and paise ten)	5,07,927

52	90 m ²	Providing and fixing 12 mm thick prelaminated particle board flat presed three layer or graded wood particle board conforming to IS:12823 Grade I type II, in panelling fixing in aluminium 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 - using Pre-laminated board with decdorative lamination on both sides (SH : 21.2.2)	m ²	Rs.1,155.50 (Rs.One thousand one hundred and fiftyfive and paise fifty)	1,03,995
53	770 m ²	Roofing with M.P.tiles over shunshade including repeering with cement mortar 1:3 (1 cement : 3 coarse sand) of size 50 x 25 mm at suitable spacing for providing 340 mm or nearest available size M.P. tiles inclusive of all cost of materials, labour, scaffolding, watering, curing, sundries etc. complete. (Based on SH; 12.48)	m ²	Rs.474.40 (Rs.Four hundred and seventyfour and paise forty)	3,65,288
54	90 m	Roofing with M.P.Hip tiles over sunshade and porch including filling of gap using 340mm or nearest Hip tiles and painting with appex painting two coats over the tiles including cost, conveyance of maerials and labour charges, as per direction of the Engineeri -in charge.	10m	Rs.1963.0 (Rs.One thousand nine hundred and sixtythree only)	17,667
55	700 Kg	Steel work in built up tubular (round,square, or rectangular hollow tubes 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) (Based on SH: 10.16.1)	Kg	Rs.102.60 (Rs.One hundred and two and paise sixty)	71,820

56	100 m2	Providing best quality 1 mm thick PVC corrugated sheets for roofing upto any pitch and fixing with polymer coated J or L hooks, bolts and nuts 8 mm dia GI plain and butumen washers or with self drilling fastener and EPDM washers etc complete (excluding the cost of purlin, rafters and trusses),including cutting sheets to size and shape wherever required (SH:12.8)	m2	Rs.237.00 (Rs.Two hundred and thirtyseven only)	23,700
57	570 m2	Providing and laying interlocking cobbles 63 mm thick(standard)minimum strength 4 kg/sqm over a sand bed 50 mm thick compacting with plate vibrator including hire charges of machinery labour materials etc complete as per direction of Engineer -in charge	m2	Rs.801.95 (Rs.Eight hundred and one and paise ninetyfive)	4,57,112
58	15 m2	Providing and laying designer tiles of approved make (thickness to be specified by the manufacturer) laid on 20mm thick cement mortar 1:4 (1 cement : 4 Coarse sand) including pointing the joints with white cement and matching pigments etc complete.	m2	Rs.1,087.00 (Rs.One thousand and eightyseven only)	16,305
59	180 Kg	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 filling the same 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 arrangements 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.) (SH : 10.28)	Kg	Rs.592.30 (Rs.Five hundred and ninetytwo and paise thirty)	1,06,614

60	310 Kg	Providing and fixing hand rail of approved size by welding etc., to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer - using 50mm dia., MS pipe (SH : 10.26.1)	Kg	Rs.104.15 (Rs.One hundred and four and paise fifteen)	32,287
61		Supplying and fixing following furniture fittings to suit the doors/window as per direction of the Engineer-in charge.			
	215 Nos	a. 300 mm Aluminium Barrel tower bolts of 12mm dia or nearest size with screws.	Each	Rs.108.40 (Rs.One hundred and eight and paise forty)	23,306
	50 Nos	b. 150mm Aluminium tower bolts with screws	Each	Rs.64.85 (Rs.Sixtyfour and paise eightyfive)	3,243
	45 Nos	c. 300 mm Aluminium aldrops of heavy type with 16 mm dia or nearest size with screws.	Each	Rs.226.40 (Rs.Two hundred and twentysix and paise forty)	10,188
	20 Nos.	d. 250 mm or nearest size Al. aldrops with screws	Each	Rs.188.00 (Rs.One hundred and eightyeight only)	3,760
	25 Nos	e. 200 mm Aluminium sliding bolt to suit the PVC door with screws	Each	Rs.115.80 (Rs.One hundred and fifteen and paise eighty)	2,895
	65 Nos	f. 200 mm size Aluminium door handle with base plate and screws.	Each	Rs.89.20 (Rs.Eightynine and paise twenty)	5,798
	25 Nos	g. 150 mm Aluminium door handle with screws.	Each	Rs.46.00 (Rs.Fortysix only)	1,150
	65 Nos	h. 650 mm Pad lock with 7 levers of best quality	Each	Rs.265.00 (Rs.Two hundred and sixtyfive only)	17,225
	25 Nos	i. 50 mm Pad lock with 6 levers of best quality	Each	Rs.171.35 (Rs.One hundred and seventyone and paise thirtyfive)	4,284

62	250 Nos	Providing 40 x 5mm flat iron hold fast 40 cm long including fixing to frame with 10mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30 x 10 x 15 cm, 1:3:6 mix (1 cement:3 course sand :6 graded stone aggregate 20mm nominal size) (SH: 9.5.3)	Each	Rs.128.85 (Rs.One hundred and twentyeight and paise eightyfive)	32,213
63	8 Nos	Providing and fixing water closet squatting pan(Indian type WC pan)with 100 mm sand cast Iron P or S trap, 10 litre low level white PVC flushing cistern, including flush pipe, 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 WC pan of size580 x 440mm with integral type foot rests (SH: 17.1.1)	Each	Rs.3,857.50 (R.Three thousand eih t hundred and fiftyseven and paise fifty)	30,860
64	16 Nos	Providing and fixing white vitreous china pedestal type water closet(Europian type) with seat and lid ,10 litre low level white vetreous china flushing cistern & Cpflush bend with fittings & CI brackets,40mm flush bend overflow arrangement with specials of standared make and mosquito proof coupl,ing of approved municipal design complete ,indluding painting of fittings and brackets,cutting and making good the walls and floors wherever required - WCpan with ISI marked black solid plastic seat and lid (SH: 17.2.2)	Each	Rs.3,779.75 (Rs.Three thousand seven hundred and seventynine and paise seventyfive)	60,476

65	18 NOs	Providing and fixing wash basin with C.I.brackets, 15mm C.P. brass pillar tap, 32mm C.P.brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the wells wherever required - White Vitreous China Wash Basin of size 550 x 400 mm with 15mm C.P. brass pilar tap (SH : 17.7.4)	Each	Rs.2,061.35 (Rs.Two thousand and sixtyone and paise thirtyfive)	37,104
66	4000 ltr	Providing and placing on terrace (at all floor levels)PVC water storage tank ISI ; 12701 marked, with cover and suitable locking arrangements and making necessary holes for inlet, outlet and over flow pipes but without fittings and the base support for tank (SH: 18.48)	Litre	Rs.5.60 (Rs.Five and paise sixty)	22,400
67	9 Nos	Providing and fixing white vitreous chine flat back half stall urinal of size 580 x 380 x 350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P brass flush pipe. Spreaders with unions and clamps (all in C.P.brass) with waste fittings as per IS:2556, C.I.trap wiht outlet grating and other couplings in C.P.brass, including painting of fittings and cutting and making good the walls and floors wwherever required - Single half stall urinal with 5 litre PVC automatic flushing cistern (SH : 17.5.1)	Each	Rs.7,451.00 (Rs.Seven thousand four hundred and fiftyone Only)	67,059

68	16 Nos	Construction of Inspection chamber of 50 x 50 cm in size for sewer line depth upto 1.00m with neatly dressed laterite in cement mortar 1:6 , 20 cm thick side wall including providing foundation with cement concrete 1:3:6 10cm thick using 20mm nominal size broken stone and forming channel inside with cement concrete 1:3:6 for free flow of water and plastering with cement mortar 1:3, 12mm thick with neat flushing coat etc and providing C.I. man hole cover of 60 x 60 cm of 20kg weight or nearest size inclusive of all earth work, masonry, cost of materials, labour, conveyance etc. complete.	Each	Rs.4,219.00 (Rs.Four thousand two hundred and nineteen only)	67,504
69		Supplying and laying PVC pipes of approved make /ISI marking and conforming to IS: 4985 for internal water supply line including conveying to position with all lead and lifts, laying in true line and level with necessary specials in floor or walls, clamping with iron or steel clips with screws and plugs, jointing, testing and replacing if necessary including all sundries, scaffolding charges etc. complete			
	40 m	a. 63 mm dia. PVC pipe of 6kgf/cm ²	m	Rs.173.00 (R.One hundred and seventythree only)	6,920
	180 m	b. 50 mm dia. PVC Pipe of 10 kgf/cm ²	m	Rs.132.90 (Rs.One hundred and thirtytwo and paise ninety)	23,922
	20 m	c. 40 mm dia. PVC Pipe of 10 kgf/cm ²	m	Rs.105.25 (Rs.One hundred and five and paise twentyfive)	2,105
	100m	d. 32 mm dia. PVC Pipe of 10 kgf/cm ²	m	Rs.72.15 (Rs.Seventytwo and paise fifteen)	7,215
	120 m	e. 25 mm dia. PVC Pipe of 10 kgf/cm ²	m	Rs.53.90 (Rs.Fiftythree and paise ninety)	6,468

	100 m	f. 20 mm dia. PVC pipe of 10kgf/cm ²	m	Rs.42.30 (Rs.Fortytwo and paise thirty)	4,230
70		Supplying , conveying to position, laying and jointing to true lines and gradients of PVC pipes with necessary specials for external water supply line including earth work excavation for trenches sand bedding in trenches etc. jointing the pipe as per direction, testing and back filling, disposing the excess earth etc inclusive of all cost of materials, labour, lighting, watching, scaffolding etc. complete.			
	120 m	a. 110 mm dia PVC pipe of 6kgf/cm ²	m	Rs.308.15 (Rs.Three hundred and eight and paise fifteen)	36,978
	150 m	b. 75 mm dia PVC pipe of 6kgf/cm ²	m	Rs.166.00 (Rs.One hundred and sixtysix only)	24,900
	50 m	c. 50 mm dia PVC pipe of 6kgf/cm ²	m	Rs.104.45 (Rs.One hundred and four and paise fortyfive)	5,223
	20 m	d. 40 mm dia PVC pipe of 4kgf/cm ²	m	Rs.84.00 (Rs.Eightyfour only)	1,680
71	250 m	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 10mm gap for thermal expansion, (1) Single socketed pipe of 110 mm diameter	m	Rs.284.40 (Rs.Two hundred and eightyfour and paise forty)	71,100
72		Supplying and installing following PVC ball/gate valve with ISI marking as directed by the Engineer -in charge			
	4 Nos	a. 63 mm or nearest size PVC Valve	Each	Rs.178.25 (Rs.One hundred and seventyeight and paise twentyfive)	713
	4 Nos	b. 50 mm or nearest size PVC Valve	Each	Rs.148.80 (Rs.One hundred and fortyeight and paise eighty)	595

	4 Nos	c. 32 mm or nearest size PVC Valve	Each	Rs.102.35 (Rs.One hundred and two and paise thirtyfive)	409
	16 Nos	d. 25 mm or nearest size PVC Valve	Each	Rs.53.80 (Rs.Fiftythree and paise eighty)	861
	4 Nos	e. 20 mm or nearest size PVC Valve	Each	Rs.34.00 (Rs.Thirtyfour only)	136
73		Supplying and fixing following chromium plated brass fittings of approved make conforming to IS sxtandard with wall flanges werever required, including all cost of fittings, conveyance and labour etc complete.			
	25 Nos.	a. 15 mm Long body bib cock	Each	Rs.223.00 (Rs.Two hundred nd twentythree only)	5,575
	50 Nos.	b. 15 mm angle valve	Each	Rs.176.50 (Rs.One hundred and seventysix and paise fifty)	8,825
	2 Nos.	c. 20 mm bib cock	Each	Rs.295.15 (Rs.Two hundred and ninetyfive and paise fifteen)	590
	25 Nos.	d. Anodised Aluminium Towel rod of 20mm dia , 60 cm long with brackets with screws etc	Each	Rs.513.80 (Rs.Five hundred and thirteen and paise eighty)	12,845
	40 Nos.	e. 110 mm dia multiple inlet PVC floor trap with suitable outlet	Each	Rs.185.85 (Rs.One hundred and eightyfive and paise eightyfive)	7,434
		APPENDIX - B : Construction of Rain Water Storage System			
1	5m3	Earth work excavation by mechanical means (Hydraulic excavator)/Manual means over areas (exceeding 30 cm depth 1.5m in width as well as10 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 (SH-2.6.1)	m3	Rs.172.00 (Rs.One hundred and seventytwo only)	860

2	1.5 m3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering 1:4:8(1 cement :4 course sand :8 graded stone aggregate 40mm nominal size) (SH: 4.1.8)	m3	Rs.5,629.30 (Rs.Five thousand six hundred and twentynine and paise thirty)	8,444
3	14 m3	Laterite work neatly dressed stone of size 35 x 20 x 20 cm in cement mortar 1:6 including all cost of materials, conveyance, labour, watrering, curing etc for foundation and basement.	m3	Rs.3,954.00 (Rs.Three thousand nine hundred and fiftyfour only)	55,356
4	7 m3	Laterite work neatly dressed stone of size 35 x 20 x 20 cm in cement mortar 1:6 including all cost of materials, conveyance, labour, watrering, curing etc for for superstructure.	m3	Rs.4,046.00 (Rs.Four thousand and fortysix only)	28,322
5	6 m3	Providing and laying in position freinforced cement concrete 1: 1.5:3 using 20mm nominal size grate stone of machine mixed and machine vibrated cement concrete, watering, curing etc complete for all works in beams, suspended floors,roofs having slope upto 15 degree landing, balconies, shelveschajjas, lintelsbands, plain window sills,staircases and spiral staircases upto floor five level excluding the cost of centering, shuttering, finishing aand reinforcement (SH: 5.3)	m3	Rs.9,078.70 (Rs.Nine thousand and seventyeight and paise seventy)	54,472
6	500 Kg	Steel reinforcement for RCC work including straightening, cutting ,bending, placing in position and binding all complete above plinth level-(Thermo-Mechanically-Treated bars) (SH: 5.22A.6)	Kg	Rs.73.55 (Rs.Seventythree and paise fiftyfive)	36,775
7	26 m2	Centering and shuttering including strutting,propping etc and removal of form for suspended floors, roofs, landings, balconies and access platform (SH:5.9.3)	m2	Rs.476.70 (Rs.four hundred and seventysix and paise seventy)	12,394

8	130 m2	Plastering (cement plaster) with CM 1:3(1 cement, 3 coarse sand) finished with a floating coat of neat cement, 12 mm thick, for septic tank and drain etc. including all cost of materials and labour charges etc complete (SH: 13.9.1)	m2	Rs.270.40 (Rs.Two hundred and seventy and paise forty)	35,152
9	50 m2	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade - two or more coats on new work. (SH : 13.60.1)	m2	Rs.82.00 (Rs.Eightytwo only)	4,100
10	2 Nos.	Supplying and fixing ordinary type C.I. man hole cover(heavy) of size 60 x 45 cm orf nearest available	Each	Rs.1,150.00 (Rs.One thousand one hundred and fiftyonly)	2,300
11	1 m	Supplying, laying and jointing 110 mm dia , PVC pipe of 6kgf/cm2 for inlet of storage tank as per direection of the Engineer-in-charge.	m	Rs.301.30 (Rs.Three hundred and one an paise thirty)	301
12	2 Nos.	Supplying and fixing 15mm dia. PVC bib cock	Each	Rs.223.00 (Rs.Two hundred and twentythree only)	446
13	1 m	Supplying and fixing 32 mm dia. PVC pipe as per direction of the Engineering -in-charge	m	Rs.72.15 (Rs.Seventytwo and paise fifteen)	72
14	2 Nos.	Supplying and fixing 32 mm dia PVC ball valve as per direction of the Engineer-in-charge	Each	Rs.102.35 (Rs.One hundred and two and paise thirtyfive)	205
		T O T A L			4,31,67,374
(Rupees Four Crore thirtyone lakh sixtyseven thousand three hundred and seventyfour only)					