

Construction of buildings for Ladies Hostel at College of Engineering, Pathanapuram.

T e n d e r S c h e d u l e (Civil work)

SI.No.	Quantity	Description	Unit	Rate	Amount
1	7000m3	Earth work excavation by mechanical means (Hydraulic excavator)/Manual means over areas (exceeding 30 cm depth 1.5m 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 (SH- 2.6.1)	m3	Rs.169.80 (Rs. One hundred and sixty nine and paise eighty)	11,88,600
2	3500	Extra for every additional lift of 1.5m or part thereof in excavation /baning excavated or stacked materials All kinds of soil (SH: 2.26.1)	m3	Rs.64.55 (Rs. Sixty four and paise fifty five only)	2,25,925
3	2140 m3	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, lift up to 1.5 m, including back filling, getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil (SH: 2.8.1)	m3	Rs.172.00 (Rs. One hundred and seventy two only)	3,68,080
4	194 m3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. All work upto plinth level 1:4:8 (1 cement :4 coarse sand :8 graded stone aggregate 40mm nominal size) (SH: 4.1.8)	m3	Rs.5454.25 (Rs. Five thousand four hundred and fifty four and paise twenty five)	10,58,125
5	115 m2	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth (SH: 4.17)	m2	Rs.564.25 (Rs. Five hundred and sixty four and paise twenty five)	64,889

Contractor:

6	730 m3	Providing and laying in position machine batched and machine mixed design M-25 grade concrete for reinforced cement concrete works,using cement content as per approved design mix including pumping of concrete to site of laying but excluding the cost of centering shuttering finishing and reinforcement including admixtures in recommended proportions as per IS 9103 to accelerate/retard setting of concrete, improve workability without impairing strength and durability as per the direction of engineer in charge>Note:-Cement content considered in this item is @330 kg/cum.Excess/less cement used as per design mix is payable/recoverable separately(for all work upto plinth Level I) (SH: 5.33.1) For footing of Rt.wall, footing of columns upto plinth level,plinth beam,septic tank,sump etc.	m3	Rs.7664.40 (Rs.Seven thousand six hundred and sixtyfour and paise forty)	55,95,012
7	673 m3	Reinforced cement concrete work upto five floor level excluding cost of centering, shuttering, finishing and reinforcement: (M-20) CC 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) (SH: 5.2.2) (for columns., lintels, beams, drop slab, stair case, floor slab etc)	m3	Rs.8268.00 (Rs.Eight thousand two hundred and sixty eight only)	55,64,364
8	86 m3	Reinforced cement concrete work upto five floor level excluding cost of centering, shuttering, finishing and reinforcement: (M-15) CC 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) (SH: 5.2.3) (for wall, drain cover slab, rack, hearth slab etc)		Rs.7,729.00 (Rs.seven thousand seven hundred and twenty nine only)	6,64,694
9	220 m2	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.214.95 (Rs. Two hundred and fourteen and paise ninetyfive)	47,289
10	4235 m2	Centering and shuttering including strutting,propping etc and removal of form for: Walls (any thickness) including attached pilasters, buttresses,plinth and string courses etc (SH: 5.9.2)	m2	Rs.424.40 (Rs.Four hundred and twentyfour and paise forty)	17,97,334

Contractor:

11	2846 m2	Centering and shuttering including strutting,propping etc and removal of form for: Suspended floor, roofs, landings, balconies and access platform (SH: 5.9.3)		Rs.476.75 (Rs.four hundred and seventy six and paise seventyfive)	13,56,831
12	2945 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 eighty six and paise forty)	11,37,948
13	927 m2	Centering and shuttering including strutting,propping etc and removal of form for: Columns, Pillars, Piers Abutments, Posts and struts (SH: 5.9.6)	m2	Rs.521.20 (Rs.Five hundred and twenty one and paise twenty)	4,83,152
14	75 m2	Centering and shuttering including strutting,propping etc and removal of form for: Stairs (excluding landings) except spiral stiarcases (SH:5.9.7)	m2	Rs.434.60 (Rs.Four hundred and theirtyfour and paise sixty)	32,595
15	1,69,940 kg	Steel reinforcement for RCC work including straightning ,cutting ,bending ,placing in position and binding all complete level-(Thermo-Mechanically-Treated bars) (SH: 5.22A.6)	kg	Rs.73.55 (Rs.Seventy three and paise fifty five)	1,24,99,087
16	667 m3	Providing and constructing solid cement concrete block masonry in CM 1:6(1 cement,6course sand) of size 30 x 20 x15 cm using factory made load bearing ,approved quality cement blocks of specified size of grade(D-4) Density of blocks not less than 1800 kg/cum ,Minimum average compressive strength 4 N/mm2 and minimum strength of individual unit 3.2 N/mm2 etc,confirming to IS 2185 part 1 1979 setting in position ,curing raking out joints ,including scaffolding etc upto FLOOR LEVEL FIVE with all lead and lift and all as per specifications and direction of Engineer-in-charge	m3	Rs.5,628.65 (Rs.Five thousand six hundred and twentyeight and paise sixtyfive)	37,54,310

Contractor:

17	46 m3	Providing and constructing solid cement concrete block masonry in CM 1:6(1 cement,6course sand) of size 40 x 20 x10 cm using factory made load bearing ,approved quality cement blocks of specified size of grade(D-4) Density of blocks not less than 1800 kg/cum ,Minimum average compresive strength 4 N/mm2 and minimum strength of individual unit 3.2 N/mm2 etc,confirming to IS 2185 part 1 1979 setting in position ,curing raking out joints ,including scaffolding etc upto FLOOR LEVEL FIVE with all lead and lift and all as per specifications and direction of Engineer-in-charge	m3	Rs.5,621.45 (Rs.Five thousand six hundred and twentyone and paise fortyfive)	2,58,587
18	3.8 m3	Providing wood work with well seasoned good quality TEAK 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,1,33,107.00 (Rs.One lakh thirtythree thousand one hundred and seven only)	5,05,807
19	5040 kg	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 (SH: 9.48.2)	kg	Rs.135.30 (Rs.One hundred and thirtyfive and paise thirty)	6,81,912
20	280 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: 9.53)	Each	Rs.136.00 (Rs.One hundred and thirty six only)	38,080
21	885 m2	Flooring with cement concrete 1:4:8 75 mm thick using 40mm stone rendering the surface smooth for finishing as the direction of Engineer-in-charge.	m2	Rs.409.10 (Rs.Four hundred and nine and paise ten)	3,62,054
22	10,230 m2	Plastering with cement mortar 1:4 (1 cement,4 fine sand) , 12mm thick, one coat to the internal and external walls including all costs of materials and labour charges watering , curing etc complete (SH: 13.1.1)	m2	Rs.195.55 (Rs.One hundred and ninety five and paise fiftyfive)	20,00,477

Contractor:

23	3650 m2	Plastering(cement plaster) with CM 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.154.00 (Rs.One hundred and fifty fouronly)	5,62,100
24	1265 m2	Plastering (cement plaster) with CM 1:3 (1 cement, 3 fine sand) finished with a floaing coat of neat cement , 12 mm thick, to the top of roof slab including all cost of materials and labour charges etc complete (SH: 13.7.1)	m2	Rs.251.70 (Rs.Two hundred and fiftyone and paise seventy)	3,18,401
25	690 m2	Plastering (cement plaster) with CM 1:4 (1 cement, 4 fine sand) finished with a floaing coat of neat cement , 12 mm thick, to the top of roof slab including all cost of materials and labour charges etc complete (SH: 13.7.2)	m2	Rs.223.50 (Rs.Two hundred and twentythree and paise fifty)	1,54,250
26	1365 m2	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturer (SH: 13.21) on the top of roof slab and sunshade etc.	m2	Rs.5.55 (Rs.Five and paise fiftyfive)	7,576
27	115 m2	Provjdng and fixing panelled or panelled and glazed shutters for doors ,windows and clerestery windows ,including ISI marked MS pressed butt hinges bright finished of required size with necessary screws ,excluding panelling which will be paid for seperately ,all complete as per direction of Engineer -in-charge (Second class teakwood-35mm thick shutters)-(SH: 9.5.1.1)	m2	Rs.3600.85 (Rs.Three thousand six hundred and paise eightyfive)	4,14,098
28	115 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 2 nd class teak wood (SH: 9.7.1)	m2	Rs.2900.80 (Rs.Two thousand nine hundred and paise eighty)	3,33,592

Contractor:

29	268 m	Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement , including fixing the frame to wall with suitable dia & length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge (SH: 9.123)	m	Rs.429.70 (Rs.Four hundred and twentynine and paisee seventy)	1,15,160
30	92 m2	Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power.The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mmx 1mm, painted with primer, all four corners of reinforcement to be welded or sealed.Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5 mm PVC sheet as panel. The styles and rails will be mitred cut and joint with the help of PVC solvent cement & self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100mm x 30 mm with wall thickness 5 mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100 mm x 8 mm complete as per manufacturer's specifications and direction of Engineer-in-charge. (SH:9.124)	m2	Rs.2,691.40 (Rs.two thousand six hundred and ninety one and paise forty)	2,47,609
31	50 Nos	Providing and fixing stainless steel casement handle suitable for uPVC doors with necessary screws etc. complete.	Each	Rs.25.20 (Rs.Twentyfive and paise twenty)	1,260

Contractor:

32	5430 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 fifty eight and paise fifteen)	19,44,755
33	6640 kg	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) (SH: 21.1.2.2)	kg	Rs.423.10 (Rs.Four hundred and twentythree and paise ten)	28,09,384
34	260m2	Providing and fixing glazing in aluminium doors, windows, ventilator, shutters & partitions etc. complete 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 4mm thickness (SH: 21.3.1)	m2	Rs.891.10 (Rs.Eight hundred and ninetyone and paise ten)	2,31,686

Contractor:

35	1.5 m2	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 deccorative lamination on side nd balancing lamination on other side (SH : 21.2.1)	m2	Rs.1,055.50 (Rs.One thousand and fiftyfive and paise fifty)	1,583
36	138 Nos	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 orshade, with nuts and screws etc. complete: Size: 300x16 mm (SH: 9.96.1)	Each	Rs.226.40 (Rs.Two hundred and twentysix and paise forty)	31,243
37	138 Nos	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 orshade, with nuts and screws etc. complete: Size: 300x10 mm (SH: 9.97.1)	Each	Rs.108.40 (Rs.One hundred and eight and paise forty)	14,959
38	138 Nos	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: Size: 125 mm x 10 mm (SH: 9.100)	Each	Rs.67.35 (Rs.Sixtyseven and paise thirtyfive)	9,294
39	75 Nos	Providing and fixing aluminium Hanging wall door stopper , 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: Twin rubber stopper (SH: 9.101.2)	Each	Rs.72.50 (Rs.Seventy two and paise fifty)	5,438
40		Supplying and fixing following furniture fittings to suit the doors/window as per direction of the Engineer-in charge.			
a)	1 No.	a. 100mm brasslocks(mortice lock) suitable or aluminium door (SH:21.13)	Each	Rs.593.00 (Rs.Five hundred and ninetythree only)	593

Contractor:

b)	1 No.	b.Round shape aluminium handle of outer dia 100mm with SS screws (SH: 21.16.1)	Each	Rs.72.50 (Rs.Seventy two and paise fifty)	73
c)	734 Nos	c. Aluminium tower bolts of size 100 x 10mm to window shutters	Each	Rs.51.15 (Rs.Fiftyone and paise fifteen)	37,544
d)	315 Nos.	d. steel wind stay to window shutters	Each	Rs.227.10 (Rs.Two hundred and twenty seven and paise ten)	71,537
41	72 Nos	Providing and fixing MS fan clamp type I or II of 16mm dia bar bent to shape with hooked ends in RCC slabs or beams during laying, including painting the exposed portion of loop etc complete as per standard design (SH: 10.17)	Each	Rs.141.35 (Rs.One hundred and fortyone and paise thirtyfive)	10,177
42	1660 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 fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.). (SH : 10.28)	kg	Rs.592.30 (Rs.Five hundred and ninetytwo and paise thirty)	9,83,218
43	90 m	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conformingto 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.244.90 (Rs.Two hundred and fortyfour and paise ninety)	22,041
44	16 Nos	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15cm diameter and weighing not less than 440 grams. (SH: 12.44)	Each	Rs.32.75 (Rs.Thirtytwo and paise seventy five)	524
45	50 Nos	Providing and fixing on wall face unplasticised - PVCmoulded fittings/accessories for unplastic ised Rigid PVC rain water pipes conformingto IS: 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10mm gap for thermal expansion, 110mm bend (SH: 12.42.5.2)	Each	Rs.205.75 (Rs.Two hundred and five and paise seventyfive)	10,288

Contractor:

46	16 Nos	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 10mm gap for thermal expansion, 110mm shoe (SH: 12.42.6.2)	Each	Rs.291.70 (Rs.Two hundred and ninety one and paise seventy)	4,667
47	160 Nos	Providing and fixing on wall face unplasticised -PVC pipes clips of approved design to unplastic ised Rigid PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with MS screws of required length, including cutting brick work and fixing in cement mortar 1:4 and making good the wall etc. complete. size: 110mm (SH: 12.43.2)	Each	Rs.207.25 (Rs.Two hundred and seven and paise twentyfive)	33,160
48	13,600 m2	Providing white cement wash one coat to newly plaster surface as priming coat including duting and cleaning the suraface,scaffolding charges etc complete	m2	Rs.21.10 (Rs.Twenty one and paise ten)	2,86,960
49	4630 m2	Finishing walls with Acrylic Smooth exterior paint of required shade - New work - two or more coats applied @ 1.67 lit/10 sqm over priming coat applied already done etc. as per the direction of the Engineer-in-charge (Based on SH: 13.46.1)	m2	Rs.75.90 (Rs.Seventy five and paise ninety)	3,51,417
50	5440 m2	Distemping with 1st quality acrylic washable distemper (ready mixed) of approved brand and manufacture to give an even shade-New work (two or more coats) over the priming coat already done ewtc. Asper the direction of the Engineer-in-charge. (SH: 13.42)	m2	Rs.55.00 (Rs.fiftyfive only)	2,99,200
51	3515 m2	Finishing underside of roof slab, sun shade bottom etc., with plastic emulsion paint of approved brand and manufacture to given an even shade - Two or more coat on new work (SH: 13.60.1)	m2	Rs.80.90 (Rs.Eighty and paise ninety)	2,84,364
52	300 m2	Polishing on wood work with Ready mixed wax polish of approved brand and manufacture -New work-in the teak wood door including all cost of materials and labour etc. complete (SH: 13.69.1)	m2	Rs.84.00 (Rs.Eight four only)	25,200

Contractor:

53	310 m2	Painting steel work with Deluxe Multy Surface Paint to give an even shade, two or more coat applied @ 0.9 lit/10 sqm over an undercoat of primer applied @ 0.8 lit/10sqm of approved brand and manufacture (SH: 13.48.3)	m2	Rs.80.20 (Rs.Eighty and paise twenty)	24,862
54	170 m2	Providing and laying vitrified floor tiles in defferent 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, steps, riser of steps etc. over 12 mm thick cement mortar 1:3(1 cemant ,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)	m2	Rs.1541.15 (Rs.One thousand five hundred and fortyone and paise fifteen)	2,61,996
55	26 m2	Providing and laying granite flooring using 18 mm thick granite , flooring 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. Black granite area of slab upto 0.50sqm (SH: 8.2.2.1.)	m2	Rs.3,764.90 (Rs.Three thousand seven hundred and sixtyfour and paise ninety)	97,887
56	25m	Providing edge moulding to 18mm thick marble/granite stone counters, vanities etc including machine polishing to edge to give high gloss finish etc, complete as per design approved by Engineer-in-charge (SH: 8.3.2)	m	Rs.313.35 (Rs.Three hundred and thirteen and paise thirtyfive)	7,834
57	7 Nos	Extra for providing opening of required size and shape for wash basin/kitchen sink in kitchen platform, vanity counter and similar location in marble/granite/stone work, including necesssary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete (SH: 8.5)	Each	Rs.477.60 (Rs.Four hundred and seventy seven and paise sixty)	3,343

Contractor:

58	2110 m2	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement, 4 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.1,547.40	32,65,014
59	253 m2	Providing and laying 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 colours such as 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 cement and matching pigment, etc complete (SH:11.37)	m2	Rs.988.00 (Rs.Nine hundred and eighty eight only)	2,49,964
60	570 m2	Providing and fixing 1st quality ceramic glazed wall tiles conforming 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.977.40 (Rs.Nine hundred and seventy seven and paise forty)	5,57,118
61	1400 m2	Providing and laying interlocking cobbles 75mm thick (standard) minimum strength 4 kg sqm over sand bed 30mm including all labour, materials etc as per direction of engineer-in-charge	m2	Rs.842.00 (Rs.Eight hundred and forty two only)	11,78,800
62		Providing and fixing poly vinyl chloride (PVC) pipes, having thermal stability for hot & cold water supply, including all PVC plain & brass threaded fittings. This includes jointing of pipes & fittings, with one step PVC solvent cement, trenching, re-filling & testing of joints complete as per direction of Engineer-in-charge, internal work work exposed on walls			
a)	145	25 mm nominal outer dia PVC pipe (12 kgf/cm2)	m	Rs.142.70 (Rs.One hundred and fortytwo and paise seventy)	20,692

Contractor:

b)	150 m	50 mm nominal outer dia PVCpipe (12kgf/cm2)	m	Rs.262.70 (Rs.Two hundred and sixtytwo and paise seventy)	39,405
63		Providing and fixing poly vinyl chloride(PVC) pipes,having thermal stability for hot & cold water supply, including all PVC plain&brass threaded fittings i/c fixing the pipe with clamps at 1m spacing.This includes jointing of pipes & fittings,with one step PVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer- in- charge, concealed work ,including cutting chases and making good the wall etc			
a)	120 m	15 mm nominal outer dia PVCpipe (12 kgf/cm2)	m	Rs.220.80 (Rs.Two hundred and twenty and paise eighty)	26,496
b)	55 m	20 mm nominal outer dia PVCpipe(12 kgf/cm2)	m	Rs.223.50 (Rs.Two hundred and twentythree and paise fifty)	12,293
64		Providing and fixing poly vinyl chloride(PVC) pipes,having thermal stability for hot & cold water supply, including all PVC plain&brass threaded fittings .This includes jointing of pipes & fittings,with one step PVC solvent cement ,trenching,re-filling & testing of joints complete as per direction of Engineer-in-charge, external work			
a)	50 m	25 mm nominal outer dia pipes(10kgf/cm2)	m	Rs.108.20 (Rs.One hundred and eight and paise twenty)	5,410
b)	500 m	40mm nominal outer dia pipes (10 kgf/cm2)	m	Rs.149.60 (Rs.One hundred and forty nine and paie sixty)	74,800
c)	150 m	50 mm nominal outer dia pipes(10kgf/cm2)	m	Rs.172.00 (Rs.One hundred and seventytwo only)	25,800
65	55 Nos	Providing and fixing CP brass stop cock (concealed) of standard design and of approved make coforming to IS:8931-(15mm nominal bore)	Each	Rs.502.00 (Rs.Five hundred and two only)	27,610
66	70 NOs	Providing and fixing CP brass Angle valve for basin mixer and geyser points of approved quality conforming to IS :8931 -(15mm nominal bore)	Each	Rs.519.00 (Rs.Five hundred and nineteen only)	36,330
67	58 Nos	Providing and fixing CP brass long body bib cock of approved quality coforming to IS standards and weighing not lessthan 690gms- 15mm nominal bore	Each	Rs.506.10 (Rs.Five hundred and six and paise ten)	29,354

Contractor:

68	57 Nos	Providing and fixing CP brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms (15mm nominal bore) (SH:18.50.1)	Each	Rs.463.70 (Rs.Four hundred and sixtythree and paise seventy)	26,431
69	65 Nos	Providing and fixing Gun metal gate valve withg C.I.wheel of approved quality (screwed end) : 25mm nominal bore: (SH: 18.17.1)	Each	Rs.600.60 (Rs.Six hundred and paise sixty)	39,039
70	5 Nos.	Do do 50mm nominal bore	Each	Rs.1784.15 (Rs.One thousand seven hundred and eighty four and paise fifteen)	8,921
71	57 Nos	Providing and fixing CP brass bib cock of approved quality coforming to IS::8931-(15 mm nominal bore) (SH: 18.49.1)	Each	Rs.414.90 (Rs.Four hundred and fourteen and paise ninety)	23,649
72	11 Nos	Providing and fixing ball valve (Brass) of approved quality, High or low pressure with plastic floats etc complete 15mm nominal bore (sh: 18.18.1)	Each	Rs.309.00 (Rs.Three hundred and nine only)	3,399
a)	1No.	25mm nominal bore	Each	Rs.520.40 (Rs.Five hundred and twenty and paise forty)	520
b)	3 Nos.	Supplying and providing G.M. fullway wheel valve - 40mm dia.	Each	Rs.1,158.00 (Rs.One thousand one hundred and fifty eight only)	3,474
73	110m	Providing and fixing poly vinyl chloride(PVC) pipes,having thermal stability for hot & cold water supply, including all PVC plain&brass threaded fittings .This includes jointing of pipes & fittings,with one step PVC solvent cement ,trenching,re-filling & testing of joints complete as per direction of Engineer-in-charge, external work a. 110 mm dia pipe (4 kgf/cm2 -for sewage line)	m	Rs.225.00 (Rs.two hundred nd twenty five only)	24,750
a)	1 No.	b. 63mm dia (4kgf/m2) PVC pipe	m	Rs.106.00 (Rs.One hundred and six only)	1,060
74		Supplying and providing 110 mm dia PVC Specials for line work			
a)	60 Nos.	110 mmdia bend	Each	Rs.157.60 (Rs.One hundred and fiftyseven and paise sixty)	9,456
b)	60 Nos.	110 mm dia Door bend	Each	Rs.211.00 (Rs.Two hundred and eleven only)	12,660

Contractor:

c)	10 Nos	110 mm dia Tee	Each	Rs.205.25 (Rs.Two hundred and five and paise seventy five)	2,053
d)	10 Nos	110 mm dia Vent Cowl	Each	Rs.89.10 (Rs.Eightynine and paie ten)	891
e)	1 No.	63mm dia Vent Cowl	Each	Rs.50.00 (Rs.fifty only)	50
75	12 Nos	Constructing brick masonry manhole in cement mortar 1:4,(1 cement,4 course sand) with RCC top slab with 1:2:4 mix (1cemnt,2 course sand,4 graded stone aggregate 20 mm nominal size) foundation concrete 1:4:8 mix (1 cement,4 course sand,8 graded stone aggregate 40mm nominal size) - slab thickness-15cm, inside plastering 12 mm thick with cement mortar 1:3,(1 cement :3 course sand) finished with neat cement flushing coat and making channels in cement concrete 1:2:4'(1 cement:2course sand :4 graded stone aggregate 20 mm nominal size)finished with neat cemeent flushing coat etc. complete as per standared design: Inside size 90 x 80cm and 45 cm deep including CI cover with frame (light duty) 455 x 610 mm intenal dimensions,total weight of cover and frame to be not less than 38 kg	Each	Rs.9864.50 (Rs.Nine thousand eight hundred and sixty four and paise fifty)	1,18,374
76	53 Nos	Providing and fixing white vitreous china pedestal type water closet(European 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 ,including painting of fittings and brackets,cutting and making good the walls and floors wherever required - WC pan with ISI marked black solid plastic seat and lid (SH: 17.2.2)	Each	Rs.4,197.90 (Rs.Four thousand one hundred and ninety seven and paise ninety)	2,22,489

Contractor:

77	39 Nos	Providing and fixing wash basin with CI brackets ,15 mm CP brass pillar taps,32mm CP brass waste of standard pattern ,including painting of fittings and brackets ,cuttings and making good the walls wherever require - White vetreous china wash basin size 630 x 450mm with 15 mm CP brass pillar tap (SH: 17.7.1)	Each	Rs.2,149.00 (Rs.Two thousand one hundred and forty nine only)	83,811
78	40 Nos	Providing and fixing PVC waste pipe for sink or wash basin : 32mm dia Flexible (coil shaped) PVC waste pipe for sink and wash basin with length not less than 700mm (SH: 17.28.2.1)	Each	Rs.50.20 (Rs.Fifty and paise twenty)	2,008
79	10 Nos	Providing and fixing 100 mm sand cast iron grating for gully trap (SH: 17.29)	Each	Rs.24.60 (Rs.Twenty four and paise sixty)	246
80	56 Nos	Providing and fixing 110 mm dia multiple inlet PVC floor trap with suitable outlet as per the direction of the Engineer -in-charge	Each	Rs.112.90 (Rs.One hundred and twenve and paise ninety)	6,322
81	56 Nos	Supplying and fixing PTMT 600 mm Towel rod of approved quality including all cost of materials and labour charges for fixing etc complete (SH:17.73.2)	Each	Rs.327.60 (Rs.Three hundred and twentyseven and paise sixty)	18,346
82	55 Nos	Supplying and fixing PTMT 138 x 102 x 75 mm soap dish of approved quality in the toilet room including all cost of materials and labour charges for fixing etc complete (SH.18.65)	Each	Rs.183.60 (Rs.One hundred and eighty three and paise sixty)	10,098
83	25,500 Litre	Providing and placing on terrace (at all floor levels)polyethylene 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.750 litre capacity (SH: 18.48)	Litre	Rs.5.60 (Rs.Five and paise sixty)	1,42,800
84	55 Nos	Providing and fixing CP brass shower rose with 15 or 20mm inlet - 100mm diameter of approved quality as per direction. (SH: 18.22.1)	Each	Rs.58.15 (Rs. Fiftyeight and paise fifteen)	3,198

Contractor:

85	10 Nos.	Providing and fixing square-mouth SW gully trap class SP-1 complete with C.I.grating brick masonry chamber with water tight C.I.cover with frame of 300x300 mm size (inside) the weight of cover to be not less than 4.5kg and frame to be not less than 2.7kg as per standard design: 100 x 100 mm size P type With common burnt clay F.P.S (non modular) bricks of class designation 7.5 (SH: 19.4.1.1)	Each	Rs.1,995.40 (Rs.One thousand nine hundred and ninetyfive and paise forty)	19,954
86	2 Nos	Making soak pit 2.5m diameter 3.0metre deep with 45x45 cm dry brick honey comb shaft with bricks and S.W.drain pipe 100mm diameter,1.8m long complete as per standard design (SH: 19.32.1.)	Each	Rs.17,815.50 (Rs.Seventeen thousand eight hundred and fifteen and paise fifty)	35,631
87	2 Nos	Supplying and fixing RCC Man hole cover slab of size 60 cm x 60cm opening with necessary angle frames, handles etc.	Each	Rs.1,216.30 (Rs.One thousand two hundred and sixteen and paise thirty)	2,433
88	2250 M2	Clearing grass and removal of the rubbish upto a distance of 50m outside the periphery of the area cleared. (SH: 2.32)	100M2	Rs.440.85 (Rs.Four hundred and forty and paise eightyfive)	9,919
89	255 M3	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement:6 coarse sqand: 12 graded stone aggregate 20mm nominal size) upto plinth level with: Cement mortar 1:6 (1 cement : 6 coarse sand) (SH: 7.1.1)	m3	Rs.4,884.30 (Rs.Four thousand eight hundred and eighty four and paise thirty)	12,45,497
90	640 m3	Do. Do for Super structure	m3	Rs.5,709.30 (Rs.Five thousand seven hundred and nine and paise thirty)	36,53,952
91	480 kg	Supplying at site Angle iron posts and struts of required size including bottom to be split and bent at right angle in opposite direction for 10cm length and drilling holes upto 10mm dia. Etc. complete. (SH: 16.19)	kg	Rs.74.40 (Rs.Seventy four and paise forty)	35,712

Contractor:

92	1560 m	Fencing with angle iron post placed at required distance embeded in cement concrete blocks, every 15th post, last but one end post and corner posts shall bne strutted on both sides and end post on the other side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire weighing 9.38kg per 100 metres (Minimum) between the two posts fitted and fixed with G.I. staples turn buckles etc, complete (cost of posts, struts earth work concrete work to be paid separately) Payment to be made per metre cost of total length of barbed wire used With G.I.barbed wire (SH: 16.18.1)	m	Rs.13.40 (Rs.Thirteen and paise forty)	20,904
93	70 Nos	Supplying and fixing turn buckles and straining bolts for barbed wire fencing (SH: 16.16)	Per set	Rs.161.50 (Rs.One hundred and sixtyone and paise fifty)	11,305
84	9 m2	Supplying and providing gate as per drawing	m2	Rs.2,419.00 (Rs.Two thousand four hundred and nineteen only)	21,771
95	50 m3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. All work upto plinth level 1:3:6 (1 cement :3 course sand : 6 graded stone aggregate20mm nominal size) (SH: 4.1.5)	m3	Rs.5,272.00 (Rs.Five thousand two hundred and seventy two only)	2,63,600
96	1 No.	Constructing masonry chamber of 40x40x50cm inside in brick work in cment mortar 1:6 and cover slab in reinformcced cement concrete 1:2:4 including necessary excavaton, foundation concrete 1:5:10 and inside platering with cement mortar 1:3, 12mm thick finished with a floating cot of neat cement etc complete as per standard design and direction of the Engineer-in-charge.	Each	1500.00 (Rs.One thousand five hundred only)	1,500
97	10 Nos	Providing M.S.foot rests including fixing in position with 20x20x10mm cement concrete block 1:3:6 (1 cement: 3 Coarse sand : 6 graded stone aggregate 20 mm nominal ize) as per standard design as per direction of engineer-in-charge (SH: 19.15.1)- with 20 x 20mm square bar	Each	Rs.323.90 (Rs.Three hundred and twentythree and paise ninety)	3,239
98	6m3	Supplying and fixing C.I.Cover without frame for man hole/water tank: 455 x 610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg.	Each	Rs.1,216.30 (Rs.One thousand two hundred and sixteen and paise thirty)	2,433

Contractor:

99	50m	Supplying and fixing 220 mm AC pipe for smoke escape and inserting spad or corttom to incinerator including costg and conveyance etc	m	Rs.209.00 (Rs.Two hundred and nine only)	10,450
100	4 Nos	S&F 220mm dia AC bend for smoke escape including cost and conveyance	Each	Rs.77.00 (Rs.Seventy seven only)	308
101	24 Nos	Supplying nd fixing 220mm dia AC 60degree bend for connecting the pipe from each toilet to the main pipe connected to chamber	Each	Rs.85.00 (Rs.Eighty five only)	2,040
102	12 Nos.	Supplying and fixing 220mm dia AC Junction	Each	Rs.100.00 (Rs.One hundred only)	1,200

Estimate P.A.C

6,13,59,404

(Rs.Six crore thirthee lakh fiftynine thousand four hundred and four only)

Director.

Contractor: