

Construction of a multi storied building for Ladies Hostel at College of Engineering, Vadakara

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

Sl.No.	Quantity	Description	Unit	Rate	Amount
1	5000 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 fifty three and paise fifty)	42,675
2	280 m3	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)	47,544
3	25 m3	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 fiftyfive only)	1,614
4	750 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)	1,29,000
5	79.1 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 course sand :8 graded stone aggregate 40mm nominal size) (SH: 4.1.8)	m3	Rs.5758.45 (Rs.Five thousand seven hundred and fifty eight and paise forty five)	4,55,493
6	150 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.595.50 (Rs. Five hundred and ninety five and paise fifty)	89,325

Contractor:

7	141 m3	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with Cement mortar 1:6 (1 cement : 6 coarse sand) (SH: 7.1.1)	m3	Rs.4298.90 (Rs.Four thousand two hundrd and ninety eight and paise ninety))	6,06,145
8	266	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 propotions ad per IS 9103 to acclerate/retard setting of concrete, improve workability without impairing strength and durability as per the direction of engineer in chargeNote:-Cement content considered in this item is @330 kg/cum.Excess/less cement used as per design mix is payable/recovarable seperately(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.8276.55 (Rs.Eight thousand two hundred and seventy six and paise fifty five)	22,01,562
9	675 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 aggregatree 20 mm nominal size) (SH: 5.2.2) (for columns., lintels, beams, drop slab, stiar cae, foor slab etc)	m3	Rs.8959.40 (Rs.Eight thousand nine hundred and fifty nine and paaise forty)	60,47,595
10	125 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)	26,869
11	475 m2	Centering and shuttering including strutting,propping etc and removal of form for: Walls (any thickness) including attached pilasters, butteresses,plinth and string courses etc (SH: 5.9.2)	m2	Rs.424.40 (Rs.Four hundred and twentyfour and paise forty)	2,01,590
12	3123 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)	14,88,890

Contractor:

13	2700 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)	10,43,280
14	1135 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)	5,91,562
15	30 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.434.60 (Rs.Four hundred and theirtyfour and paise sixty)	13,038
16	315 m2	Centering and shuttering including strutting,propping etc and removal of form for: Vertical and horzondal fins individually or forming box louvers facias , eve boards etc. (SH5.9.13)	m2	Rs.678.90 (Rs.Six hundred and seventy eight and paise ninety)	2,13,854
17	950 m	Centering and shuttering including strutting,propping etc and removal of form for: Edges of slab and breaks in floors and walls under 20 cm wide (SH: 5.9.16.1)	m	Rss.125.80 (Rs.One hundred and twentyfive and paise eighty)	1,19,510
18	4 m2	Centering and shuttering including strutting,propping etc and removal of form for: Whether shade. Chajjas corbles etc including edges of sun shade (5.9.19)	m2	Rs.543.90 (Rs.Five hundred and forty three and paise ninety)	2,176
19	111010 kg	Steel reinforcement for RCC work including straightening ,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)	81,64,786
20	750 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.5,662.00 (Rs.Five thousand six hundred and sixty two only)	42,46,500

Contractor:

21	55 m3	Do. Do. Usisng block size of 30 x 20x 10 cm as per above specification for 10cm thick wall	m3	Rs.5,654.85 (Rs.Five thousand six hundred andfifty fourand paise eighty five)	3,11,017
22	10 m3	Do. Do. Usisng block size of 40 x 20x 15 cm as per above specification for parapet, compound wall etc.	m3	Rs.4848.85 (Rs.Fourthousand eight hundred and forty eight and paise eighty five)	48,489
23	2.6 m3	Providing wood work with well seasoned good quality PINCODA 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,1,10,905.00 (Rs.One lakh ten thousand nine hundred and five only)	2,88,353
24	4700 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)	6,35,910
25	450 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.139.00 (Rs.One hundred and thirty nine only)	62,550
26	116 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 (Good quality PINCODA wood-35mm thick shutters)-(SH: 9.5.1.1)	m2	Rs.2939.70 (Rs.Two thousand nine hundred and thirty nine paise seventy)	3,41,005
27	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 quaaity PINCODA wood) (SH: 9.7.1)	m2	Rs.2353.50 (Rs.Two thousand three hundred and fifty three andpaise fifty)	2,58,885

Contractor:

28	7.4 m2	Providing and fixing glazed shutters for doors and windows and clerestory windows using 4mm thick float glass pane including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws. Good quality PINCODA wood - 35mm thick (SH: 9.9.1.1)	m2	Rs.3500.85 (Rs.Three thousand five hundred and paise eighty five)	25,906
29	250 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 paise seventy)	1,07,425
30	78 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 mm x 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)	2,09,929

Contractor:

31	2410 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)	8,63,142
32	3671 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)	15,53,200
33	171 m2	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)	1,52,378

Contractor:

34	30 kg	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-Charge. (only weight of grill to be measured for payment) (SH: 21.17)	kg	408.00 (Rs. Four hundred and eight only)	12,240
35	435 kg	Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings, the aluminium quality as per grade 6063 T5 or T6 as per BS 1474, including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-charge (The item includes cost of materials such as cleats, sleeves, screws and necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account). (SH26.1)	kg	312.60 (Rs. Three hundred and twelve and paise sixty)	1,35,981
36	67 m ²	Designing, fabricating, testing protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints for linear as well as curvilinear portions of the building for all heights and all levels including: a. Structural analysis, design and preparation of shop drawings for the specified design load conforming to IS875 part III (the system must pass the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashing, fire stop (Barrier)-cum-smoke seals, micro wave curved EPDM gasket for water tightness, pressure equalisation and drainage and protection against fire hazard including: Contd.....			

Contractor:

		b). Fabricating and supplying serrated M.S. hot dip galvanised/Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 dimensional movement for achieving perfect verticality and proper fixing of structural glazing system with the RCC/masonry/structural steel framework of building structure, using stainless steel anchor fasteners/bolts, nylon separator to prevent bimetallic contacts with nuts and washers etc., to stainless steel grade 316, of the required capacity and in required number. contd.....			
		c) Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory/work shop environment, including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacturer as per approved sealant design within and all around the perimeter for holding glass. contd.....			
		d) Providing and fixing in position flashings of solid aluminium sheet 1mm thick and of sizes, shapes and profiles as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight.e) Making provision for drainage of moisture.water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalisation, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. contd.....			
		This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastage etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design checked and all the shop drawings vetted by the Principal;s of the structural glazing system. contd.....			

Contractor:

		This item also includes the cost of all mock ups at site, cost of all samples of the individual componetss for testing in an aapproved laaboratory, field tests on the assembled working structural glazing as specified, cleaning and protetion till the handing over t of the building for occupation. In the end, the Contractor shall provide a water tight structural galazing haaving all the performace characteristics etc. all completge as required, a per the Architectural drawings, as per item description, as specified, as per the approved shosp drawing and a directed by the Engineer-in-charge. contd.....			
		NOTE: 1. The cost of providing extruded aluminium frames, shadow boxes, fire stop[(barrier)-cum-smoke seals, extrtuded aluminium section capping for fixing in the grooves of the curtainm galzing and vermin proof stainless steel wire mesh shall be paid seperately under relevant items un this sub head. However for the purpose of payment, only the actual area aof structural glazing (including) width of grooves) on the external ssace shall be measured in sqm. upto two decimal places. (SH:26.2)			
			sqm	Rs.2282.60 (Rs. Two thousand two hundred and eight two and paie sixty)	1,52,934

Contractor:

37	67 m2	Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12-6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer high performance heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface #2 of approved colour and shade, an inner Heat strengthened clear float glass 6mm thick, spacer tube 12mm wide, desiccants, including primary seal and secondary seal (structural silicon sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/workshop of the glass processor (Payment for fixing of IGU Panels in the curtain glazing is included in the cost of item no.1) For payment, only the actual area of glass on face of # 1 of the glass panels (excluding the area of the groove and weather silicon sealant) provided and fixed in position, shall be measured in sqm. (SH:26.3)	m2	Rs.3,862.85 (Rs.Three thousand eight hundred and sixty two and paise eightyfive)	2,58,811
38	10 m2	Extra for openable side/top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardware for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4-point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/fasteners, nuts, bolts, washers etc. all complete as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in Charge (SH:26.4)	m2	Rs.2,968.90 (Rs.two thousand nine hundred and sixty eight and paise ninety)	29,689
39	800 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.431.90 (Rs.Four hundred and thirty one and paise ninety)	3,45,520
40	11020 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.199.55 (Rs.One hundred and ninety nine and paise fiftyfive)	21,99,041

Contractor:

41	5680 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.156.00 (Rs.One hundred and fifty six only)	8,86,080
42	1905 m2	Plastering (cement plaster) with CM 1:3 (1 cement, 3 fine sand) finished with a floating 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.255.70 (Rs.Two hundred and fifty five and paise seventy)	4,87,109
43	1775 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.5.50 (Rs.Five and paise fifty)	9,763
44	2240 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,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.1,554.10 (Rs.One thousand five hundred and fifty five and paise ten)	34,81,184
45	192 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 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)	m2	Rs.1545.00 (Rs.One thousand five hundred and forty five only)	2,96,640
46	6 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 above 0.50sqm (SH: 8.2.2.2)	m2	Rs.3,460.00 (Rs.Three thousand four hundred and sixty only)	20,760

Contractor:

47	1 No.	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 necessary 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)	478
48	201 m2	Providing and laying Ceramic glazed floor tiles of size 300 x 300mm (thickness to be specified by the manufacturer), of 1st quality confirming 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 cementand matching pigment ,etc complete (SH:11.37)	m2	Rs.994.65 (Rs.Nine hundred and ninety four and paise sixty five)	1,99,925
49	241 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.981.30 (Rs.Nine hundred and eighty one and paise thirty)	2,36,493
50	16350 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)	3,44,985
51	4500 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)	3,41,550
52	6200 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 thepriming coat already done ewtc. Asper the direction of the Engineer-in-charge. (SH: 13.42)	m2	Rs.55.00 (Rs.fiftyfive only)	3,41,000

Contractor:

53	5650 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)	4,57,085
54	280 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: 13.48.2)	m2	Rs.80.20 (Rs.Eighty and paise twenty)	22,456
55	260 m2	Painting wood 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 @ 0.75 lit/10sqm of approved brand and manufacture (SH: 13.48.3)	m2	Rs.91.10 (Rs.Ninety one and paise ten only)	23,686
56	1 No.	Providing and fixing aluminium die cast body tubular type universal hudraulic dor closer (Haaving brand logo with ISI: 3564, embosed on the body, with necessary accessories aand screws etc complete (SH 9.83)	Each	Rs.1,340.70 (Rs.One thousand three hundred and forty and paise seventy)	1,341
57	261 Nos.	Providing anad fixing brightr finihed aluminium casement stays, ISI marked anodised (anodic coating not less than grade AC 10 as per ISL 1868) transparent or deyed to required colour and shade, with necessary scews etc. complete (SH: 9.102) (250mm)	Each	Rs.64.10 (Rs.Sixty four and paie ten)	16,730
58	160 Nos	Providing and fixing ISI marked Oxidied MS tower bolt blaack fimish, (barrel type) with necessary screws etc. complete (SH 9.63.1) a. 250 x 10mm	Each	Rss.70.30 (Rs.Seenty and paise thirty)	11,248
	250 Nos.	b. Do do of size 150 x 10mm	Each	Rs.64.85 (Rs.Sixtyfour and paise eighty five)	16,213
59	160 nos.	Providing and fixing ISI marked M.S.Handles conforming to IS: 4992 with necessary screws etc. complete (SH:9.66.1) Size 125mm		Rs.28.80 (Rs.twenty eight and paie eighty)	4,608
60	10 Nos.	Providing and fixing bright finished brass 100mm mortice latch and lock with 6 lever and a pair of lever handles of approved qualaity with necessary screws etc complete (SH: 9.76)	Each	Rs.592.85 (Rs.Five hundred and ninety two and paise eighty five)	5,929

Contractor:

61	150 Nos.	Providing and fixing aluminium sliding door bolt , ISI marked anodised (anodic coating not less than grade AC 10 as per ISL 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete (SH: 9.96.1) 300 x 16mm	Each	Rs.226.40 (Rs.Two hundred and twentysix and paise forty)	33,960
62	220 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 forty one and paise thirty five)	31,097
63	260 Nos.	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.	Each	Rs.72.50 (Rs. Seenty two and paise fifty)	18,850
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, internal work work exposed on walls			
	60 m	a. 20 mm nominal outer dia PVCpipe (12 kgf/cm ²)	m	Rs.129.30 (Rs.One hundred and twenty nine and paise thirty)	7758
	75m	b. 25 mm nominal outer dia PVCpipe (12 kgf/cm ²)	m	Rs.142.70 (Rs.One hundred and fortytwo and paise seventy)	10,703
	250 m	c. 40 mm nominal outer dia PVCpipe (12kgf/cm ²)	m	Rs.226.65 (Rs.Two hundred andtwenty six and paise ixty five)	56,663
	150 m	d. 50 mm nominal outer dia PVCpipe (12kgf/cm ²)	m	Rs.262.70 (Rs.Two hundred and sixtytwo and paise seventy)	39,405

Contractor:

65		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			
	240 m	a. 15 mm nominal outer dia PVCpipe (12 kgf/cm2)	m	Rs.220.80 (Rs.Two hundred and twenty and paise eighty)	52,992
	240 m	b. 20 mm nominal outer dia PVCpipe(12 kgf/cm2)	m	Rs.223.50 (Rs.Two hundred and twentythree and paise fifty)	53,640
	400 m	c. 25 mm nominal outer dia PVCpipe(12 kgf/cm2)	m	Rs.236.85 (Rs.Two hundred and thirty six and paise eighty five)	94,740
66		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			
	45 m	a. 25 mm nominal outer dia pipes(10kgf/cm2)	m	Rs.108.20 (Rs.One hundred and eight and paise twenty)	4,869
	160 m	b. 40mm nominal outer dia pipes (10 kgf/cm2)	m	Rs.152.50 (Rs.One hundred and fifty two and paise fifty)	24,400
	280 m	c. 50 mm nominal outer dia pipes(10kgf/cm2)	m	Rs.172.00 (Rs.One hundred and seventytwo only)	48,160
	60 m	d. 62.5 mm nominal outer dia pipes(10kgf/cm2)	m	Rs.231.40 (Rs.Twohundred and thirty one nd paise forty)	13,884
	90 m	e. 110 mm nominal outer dia pipes(10kgf/cm2)	m	Rs.516.10 (Rs.five hundred and sixteen and paise ten)	46,449
67	28 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.502.05 (Rs.Five hundred and two and paie five)	14,057
68	35 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)	18,165

Contractor:

69	50 Nos	Providing and fixing CP brass bib cock of approved quality coforming to IS standards- 15mm nominal bore	Each	414.90 (Rs.Four hundred and fourteen and paise ninety)	20,745
70	10 Nos		Each	Rs.506.10 (Rs.Five hundred and six and paise ten)	5,061
71		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			
	100 m	a. 110 mm dia (4 kgf/cm2 - for sewage line work)	m	Rs.225.00 (Rs.Two hundred and twenty five only)	22,500
	10 m	b. 63 mm mm dia (4 kgf/cm2 - for sewage line work)	m	Rs.106.00 (Rs.One hundred and six only)	1,060
	70m	c. 110 mm dia (6 kgf/cm2 - for line work)	m	Rs.244.90 (Rs.Two hundred and forty four and paise ninety)	17,143
72	10 Nos.	Providing and fixing Gun metal gate valve withg C.I.wheel of approved quality (screwed end) : a. 25mm nominal bore: (SH: 18.17.1)	Each	Rs.600.60 (Rs.Six hundred and paise sixty)	6,006
	6 Nos.	b. Do do 40mm nominal bore	Each	Rs.1158.20 (Rs.One thousand one hundred and fiftyeight and paise twenty)	6,949
	5 Nos.	bc. Do do 50mm nominal bore	Each	Rs.1784.15 (Rs.One thousand seven hundred and eighty four and paise fifteen)	8,921
	3 Nos	d. Do do 80mm nominal bore	Each	Rs.2123.35 (Rs. Two thousand one hundred and twenty three and paise thirty five)	6,370
73		Supplying and providing 110 mm dia PVC Specials for line work			
	40 nos	a. 110 mmdia PVC bend	Each	Rs.157.60 (Rs.One hundred and fiftyseven and paise sixty)	6,304
	40 Nos.	b. 110 mm dia PVC Door bend	Each	Rs.211.00 (Rs.Two hundred and eleven only)	8,440
	10 Nos	c. 110 mm dia pvc Tee	Each	Rs.205.25 (Rs.Two hundred and five and paise seventy five)	2,053

Contractor:

	5 Nos	d. 110 mm dia PVC Vent Cowl	Each	Rs.89.10 (Rs.Eightynine and paie ten)	446
	5 No.	e. 63mm dia PVC Vent Cowl	Each	Rs.50.00 (Rs.fifty only)	250
74	3 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 cement 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 (weight of cover 23 kg and weight of frame 15 kg) With common burnt clay FPS (non modular) bricks of class designation 7.5 (SH: 19.7.1.1)	Each	Rs.9864.50 (Rs.Nine thousand eight hundred and sixty four and paise fifty)	29,594
75	6 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)	25,187

Contractor:

76	22 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 levelwhite 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.3660.00 (Rs.Three thousand six hundred and sixty only)	80,520
77	31 Nos	Providing and fixing wash basin with CI brackets ,15 mm CP brass pillar taps,32mm CP brass waste of standared 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)	66,619
78	31 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)	1,556
79	31 nos.	Supplying and fixing mirror of superior qualityand of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing - Reectangular shape 453 x 357mm (SH: 17.32.2)	Each	Rs.806.00 (Rs.Eight hundred and six only)	24,986
80	1 No.	Providing and fixing ball valve (Brass) of approved qualaity- Highor low pressure with platic float etc complete 25mm mopminal bore (SH: 18.18.3)	Each	Rs.511.00 (Rs.Five hundred and eleeven only)	511
81	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
82	32 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)	3,613
83	30 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.327.65 (Rs.Three hundred and twentyseven and paise sixty five)	9,830

Contractor:

84	30 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)	5,508
85	15,000 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)	84,000
86	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
87	12 Nos.	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)	14,596
88	6 nos.	Constructing soak pit 1.2x 1.2x1.2 m filled with brick bats including S.W drain pipe 100mm dia and 1.2 m long etc complete as per standard design (SH: 19.33)	Each	Rs.2056.00 (Rs.Two thousand and fifty six only)	12,336
89	18 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 size) 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)	5,830

Estimate P.A.C

4,19,99,542

(Rs.Four crore nineteen lakh ninety nine thousand five hundred and forty two only)

Director.

Contractor: