

**TENDER SCHEDULE**

<b>Name of work: Construction of a Canteen building at College of Engineering, Aranmula.</b>					
Sl.No	Quantity	Description	Unit	Rate	Amount
1	220 m3	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas exceeding 30 cm in depth 1.5m width as well as 10sqm on plain including disposal of excavated earth with lead upto 50m and lift upto 1.5m etc.- in all kinds of soil (SH: 2.8.1)Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas exceeding 30 cm in depth 1.5m width as well as 10sqm on plain including disposal of excavated earth with lead upto 50m and lift upto 1.5m etc.- in all kinds of soil (SH: 2.8.1)Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas exceeding 30 cm in depth 1.5m width as well as 10sqm on plain including disposal of excavated earth with lead upto 50m and lift upto 1.5m etc.- in all kinds of soil (SH: 2.8.1)	m3	Rs.261.75 Rs.Two hundred and sixtyone and paise seventyfive) Rs.261.75 Rs.Two hundred and sixtyone and paise seventyfive) Rs.261.75 Rs.Two hundred and sixtyone and paise seventyfive)	57,585
2	63m3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plinth level : using 1:4:8 (1 cement, 4 coarse sand : 8 graded stone aggregate 40mm nominal size ) (SH :4.1.8)Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plinth level : using 1:4:8 (1 cement, 4 coarse sand : 8 graded stone aggregate 40mm nominal size ) (SH :4.1.8)Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plinth level : using 1:4:8 (1 cement, 4 coarse sand : 8 graded stone aggregate 40mm nominal size ) (SH : 4.1.8)	m3	Rs.5061 (Rs.Five thousand and sixty one only)Rs.5061 (Rs.Five thousand and sixty one only)Rs.5061 (Rs.Five thousand and sixty one only)	3,18,843

Contractor.

3	280 m3	Supplying and filling in layers of 15 cm thick and consolidated as per direction using good gravelling soil conveyed from outside available site with all lead and lift inclusive of all of materials, labour, transportation, consolidating charge, watering ramming etc, complete	m3	Rs.537 (Rs.Five hundred and thirtyseven only)Rs.537 (Rs.Five hundred and thirtyseven only)Rs.537 (Rs.Five hundred and thirtyseven only)	1,50,360
4	85.5 m3	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering and shuttering finishing and reinforcement - <b>All work upto plinth level - 1 : 1.5 : 3</b> (1 cement :1.5 course sand : 3 graded stone aggregate 20mm nominal size) (SH : 5.1.2) Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering and shuttering finishing and reinforcement - <b>All work upto plinth level - 1 : 1.5 : 3</b> (1 cement :1.5 course sand : 3 graded stone aggregate 20mm nominal size) (SH : 5.1.2) Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering and shuttering finishing and reinforcement - <b>All work upto plinth level - 1 : 1.5 : 3</b> (1 cement :1.5 course sand : 3 graded stone aggregate 20mm nominal size) (SH : 5.1.2)	m3	Rs.7071.50 (Rs.Seven thouand and seventyone and paise fifty)Rs.7071.50 (Rs.Seven thouand and seventyone and paise fifty)Rs.7071.50 (Rs.Seven thouand and seventyone and paise fifty)	6,04,613

Contractor.

5	8 m3	<p>Reinforced cement concrete work in wall (any thickness), including attached pillasters, buttresses, plinth and string courses, fillets, <b>columns</b>, pillars, piers, abutments, posts and struts etc <b>upto floor five level</b> excluding cost of centering, shuttering, finishing and reinforcement - <b>using 1 ;1.5 : 3</b> (1 cement : 1.5 coarse sand : 3 graded stone aggregate of 20mm nominal size (SH : 5.2.2))</p> <p>Reinforced cement concrete work in wall (any thickness), including attached pillasters, buttresses, plinth and string courses, fillets, <b>columns</b>, pillars, piers, abutments, posts and struts etc <b>upto floor five level</b> excluding cost of centering, shuttering, finishing and reinforcement - <b>using 1 ;1.5 : 3</b> (1 cement : 1.5 coarse sand : 3 graded stone aggregate of 20mm nominal size (SH : 5.2.2))</p> <p>Reinforced cement concrete work in wall (any thickness), including attached pillasters, buttresses, plinth and string courses, fillets, <b>columns</b>, pillars, piers, abutments, posts and struts etc <b>upto floor five level</b> excluding cost of centering, shuttering, finishing and reinforcement - <b>using 1 ;1.5 : 3</b> (1 cement : 1.5 coarse sand : 3 graded stone aggregate of 20mm nominal size (SH : 5.2.2))</p>	m3	<p>Rs.8146.80  (Rs.Eight thousand one hundred and fortysix and paise eighty)Rs.8146.80  (Rs.Eight thousand one hundred and fortysix and paise eighty)Rs.8146.80  (Rs.Eight thousand one hundred and fortysix and paise eighty)</p>	65,174
6	6.5 m3	<p>Reinforced cement concrete work in wall (any thickness), including attached pillasters, buttresses, plinth and string courses, fillets, <b>columns</b>, pillars, piers, lintels, abutments, posts and struts etc <b>upto floor five level</b> excluding cost of centering, shuttering, finishing and reinforcement - <b>using 1 ;2: 4</b> (1 cement : 2 coarse sand : 4 graded stone aggregate of 20mm nominal size (SH : 5.2.3))</p> <p>Reinforced cement concrete work in wall (any thickness), including attached pillasters, buttresses, plinth and string courses, fillets, <b>columns</b>, pillars, piers, lintels, abutments, posts and struts etc <b>upto floor five level</b> excluding cost of centering, shuttering, finishing and reinforcement - <b>using 1 ;2: 4</b> (1 cement : 2 coarse sand : 4 graded stone aggregate of 20mm nominal size (SH : 5.2.3))</p> <p>Reinforced cement concrete work in wall (any thickness), including attached pillasters, buttresses, plinth and string courses, fillets, <b>columns</b>, pillars, piers, lintels, abutments, posts and struts etc <b>upto floor five level</b> excluding cost of centering, shuttering, finishing and reinforcement - <b>using 1 ;2: 4</b> (1 cement : 2 coarse sand : 4 graded stone aggregate of 20mm nominal size (SH : 5.2.3))</p>	m3	<p>Rs.7678.60  (Rs.Seven thousand six hundred and seventyeight and paise sixty)Rs.7678.60  (Rs.Seven thousand six hundred and seventyeight and paise sixty)Rs.7678.60  (Rs.Seven thousand six hundred and seventyeight and paise sixty)</p>	49,911

Contractor.

7	5 m3	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15degree landings, balconies, shelves, chajjas,sunshade, bands, plain window sills, staircases and spiral stair caes upto floor five level; excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) (SH:5:3)	m3	Rs.7813.00 (Rs.Seven thousand eight hundred and thirteen only)Rs.7813.00 (Rs.Seven thousand eight hundred and thirteen only)Rs.7813.00 (Rs.Seven thousand eight hundred and thirteen only)	39,065
8	13000 kg	Steel reinforcement for RCC work including straightening , cutting , bending placing in position and binding all complete above plinth level- <b>(Thermo-Mechanically-Treated bars)</b> (SH: 5.22A.6)Steel reinforcement for RCC work including straightening , cutting , bending placing in position and binding all complete above plinth level- <b>(Thermo-Mechanically-Treated bars)</b> (SH: 5.22A.6)Steel reinforcement for RCC work including straightening , cutting , bending placing in position and binding all complete above plinth level- <b>(Thermo-Mechanically-Treated bars)</b> (SH: 5.22A.6)	kg	Rs.76.10 (Rs.Seventysix and paise ten)Rs.76.10 (Rs.Seventysix and paise ten)Rs.76.10 (Rs.Seventysix and paise ten)	9,89,300
9	165 m2	Centering and shuttering including strutting, proping etc. and removal of forms for: <b>Foundation, footings, bases of columns etc for mass concrete (SH : 5.9.1`)</b> Centering and shuttering including strutting, proping etc. and removal of forms for: <b>Foundation, footings, bases of columns etc for mass concrete (SH : 5.9.1`)</b> Centering and shuttering including strutting, proping etc. and removal of forms for: <b>Foundation, footings, bases of columns etc for mass concrete (SH : 5.9.1`)</b>	m2	Rs.214.90 (Rs.Two hundred and fourteen and paise ninety)Rs.214.90 (Rs.Two hundred and fourteen and paise ninety)Rs.214.90 (Rs.Two hundred and fourteen and paise ninety)	35,459

10	90 m2	Centering and shuttering including strutting, proping etc. and removal of forms for: <b>Columns, pillaars, piers, abutments, postss and swtruts (SH : 5.9.6)Centering and shuttering including strutting, proping etc. and removal of forms for: Columns, pillaars, piers, abutments, postss and swtruts (SH : 5.9.6)Centering and shuttering including strutting, proping etc. and removal of forms for: Columns, pillaars, piers, abutments, postss and swtruts (SH : 5.9.6)</b>	m2	Rs.521.20 (Rs. Five hundred and twentyone and paise twenty)Rs.521.20 (Rs. Five hundred and twentyone and paise twenty)Rs.521.20 (Rs. Five hundred and twentyone and paise twenty)	46,908
11	110 m2	Centering and shuttering including strutting, proping etc. and removal of forms for: <b>Lintels, beams, plinthbeams, girders, bressumers and cantileverrs etc (SH : 5.9.5)Centering and shuttering including strutting, proping etc. and removal of forms for: Lintels, beams, plinthbeams, girders, bressumers and cantileverrs etc (SH : 5.9.5)Centering and shuttering including strutting, proping etc. and removal of forms for: Lintels, beams, plinthbeams, girders, bressumers and cantileverrs etc (SH : 5.9.5)</b>	m2	Rs.386.40 (Rs.Three hundred and eightysix and paise forty)Rs.386.40 (Rs.Three hundred and eightysix and paise forty)Rs.386.40 (Rs.Three hundred and eightysix and paise forty)	42,504
12	50 m2	Centering and shuttering including strutting, proping etc. and removal of forms for: <b>Supended floors, roofs, landing, balconies and access platform etc (SH : 5.9.3)Centering and shuttering including strutting, proping etc. and removal of forms for: Supended floors, roofs, landing, balconies and access platform etc (SH : 5.9.3)Centering and shuttering including strutting, proping etc. and removal of forms for: Supended floors, roofs, landing, balconies and access platform etc (SH : 5.9.3)</b>	m2	Rs.476.75 (Rs.Four hundred and seventysix and paise seventyfive)Rs.476.75 (Rs.Four hundred and seventysix and paise seventyfive)Rs.476.75 (Rs.Four hundred and seventysix and paise seventyfive)	23,838

13	15 m3	<p>Providing and constructing <b>solid cement concrete block</b> masonry in cement mortar 1:6 (1 cement, 6 Coarse sand) of <b>size 40 x 20 x 20 cm</b> of approved quality cement block specified size of grade D (4), Densityh of blocks not less than 1800 Kg/cum, minimum average compressive strength of 4N/mm2 and minimum strength of individual unit 3.2N/mm2 etc conforming to IS2185 part 1979 set in position, curing racking out joints, including scaffolding etc. <b>upto to Plinth level</b> with all lead and lift etc as per direction of the Engineer -in-charge</p> <p>Providing and constructing <b>solid cement concrete block</b> masonry in cement mortar 1:6 (1 cement, 6 Coarse sand) of <b>size 40 x 20 x 20 cm</b> of approved quality cement block specified size of grade D (4), Densityh of blocks not less than 1800 Kg/cum, minimum average compressive strength of 4N/mm2 and minimum strength of individual unit 3.2N/mm2 etc conforming to IS2185 part 1979 set in position, curing racking out joints, including scaffolding etc. <b>upto to Plinth level</b> with all lead and lift etc as per direction of the Engineer -in-charge</p> <p>Providing and constructing <b>solid cement concrete block</b> masonry in cement mortar 1:6 (1 cement, 6 Coarse sand) of <b>size 40 x 20 x 20 cm</b> of approved quality cement block specified size of grade D (4), Densityh of blocks not less than 1800 Kg/cum, minimum average compressive strength of 4N/mm2 and minimum strength of individual unit 3.2N/mm2 etc conforming to IS2185 part 1979 set in position, curing racking out joints, including scaffolding etc. <b>upto to Plinth level</b> with all lead and lift etc as per direction of the Engineer -in-charge</p>	m3	<p>Rs.4173.00  (Rs. Four thousand one hundred and seventy three only)Rs.4173.00  (Rs. Four thousand one hundred and seventy three only)Rs.4173.00  (Rs. Four thousand one hundred and seventy three only)</p>	62,595
14	80 m3	Do. Do for <b>super structure of walls</b> Do. Do for <b>super structure of walls</b>	m3	<p>Rs.4508.10  (Rs.Four thousand five hundred and eight and paise ten)Rs.4508.10  (Rs.Four thousand five hundred and eight and paise ten)</p>	3,60,648

Contractor.

15	425 kg	<p>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)</p>	kg	<p>Rs.364.00 (Rs.Three hundred and sixtyfour only)Rs.364.00 (Rs.Three hundred and sixtyfour only)</p>	1,54,700
16	330 kg	<p>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 reuired (Fittings shall be paid for separately)- Powder coated aluminium (minimum thickness of powder coating 50 microns) (SH: 21.1.2.2)</p>	m2	<p>Rs.411.30 (Rs. Four hundred and eleven and paise thrity)Rs.411.30 (Rs. Four hundred and eleven and paise thrity)</p>	1,35,729

Contractor.

17	12 m2	<p>Providing and fixing 12mm thick prelaminated particle board flat pressed threwe layer or graded wood particle board conforming to IS : 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P.brass/stainless steel screws, etc complete as per architectural drawings and dirrection of Engineer-in-charge:</p> <p><b>pre-laminted particle board with decorative lamination on both sidee (SH : 21.2.2)</b></p> <p><b>Providing and fixing 12mm thick prelaminated particle board flat pressed threwe layer or graded wood particle board conforming to IS : 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P.brass/stainless steel screws, etc complete as per architectural drawings and dirrection of Engineer-in-charge:</b></p> <p><b>pre-laminted particle board with decorative lamination on both sidee (SH : 21.2.2)</b></p>	m2	<p>Rs.1155.50 (Rs.One thousand one hundred and fiftyfive and paise fifty)Rs.1155.50 (Rs.One thousand one hundred and fiftyfive and paise fifty)</p>	13,866
18	26.5 m2	<p>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) - <b>with float glass panes of 4.0mm thickness (SH:21.3.1)</b></p> <p><b>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)</b></p>	m2	<p>Rs.891.10 (Rs.Eight hundred and ninetyone and paise ten) Rs.891.10 (Rs.Eight hundred and ninetyone and paise ten)</p>	23,614



19	15 m	<p>Providing and fixing factory made uPVC door frame of uPVC extruded sections having an overall dimensions as below (Tolerance =/- 1mm)with wall thickness 2.0mm, corners of the door frame to be jointed with galvanized brackets and stainless steel screws, jointed mitred and plastic welded. The hinge side vertical of the frame reinforced by galvanized M.S.tube of size 19 x 19 mm and 1mm (=/-0.1mm) wall thickness ad 3 nos stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge</p> <p><b>Extruded section profile 48 x 40mm (SH : 9.117)Providing and fixing factory made uPVC door frame of uPVC extruded sections having an overall dimensions as below (Tolerance =/- 1mm)with wall thickness 2.0mm, corners of the door frame to be jointed with galvanized brackets and stainless steel screws, jointed mitred and plastic welded. The hinge side vertical of the frame reinforced by galvanized M.S.tube of size 19 x 19 mm and 1mm (=/-0.1mm) wall thickness ad 3 nos stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge</b></p> <p><b>Extruded section profile 48 x 40mm (SH : 9.117)</b></p>	m	<p style="text-align: center;">Rs.437.00 (Rs. Four hundred and thirtyseven only)Rs.437.00 (Rs. Four hundred and thirtyseven only)</p>	6,555
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Contractor.

20	5.1 m2	<p>Providing and fixing to existing door frames:  24mm thick factory made PVC door shutters made of styles and rails of uPVC hollow sections of size 59 x 24 mm and wall thickness 2mm (=/- 0.2mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of m.S. galvanised/plastic brackets of size 75 x 220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of shutters reinforced by inserting galvanized m.S.tube of size 20 x 20 mm and 1mm wall thickness. The lock rail made up to 'H' section, a uPVC hollow section of size 100x24 NS 2MM QI thickness, fixed to the shutter styles by means of plastic/galvanized M.S.'U' cleats. The shutter frames filled with a uPVC multi chambered single panel of size not less than 620mm, having overall thickness of 20 mm and 1 mm wall thickness. The panels filled vertically and tie bars at two places by inserting horizontally 6 mm galvanised M.S.rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge (for W.C. and Bath room door shutter) (SH : 9.118.1)</p> <p>Providing and fixing to existing door frames:  24mm thick factory made PVC door shutters made of styles and rails of uPVC hollow sections of size 59 x 24 mm and wall thickness 2mm (=/- 0.2mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of m.S. galvanised/plastic brackets of size 75 x 220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of shutters reinforced by inserting galvanized m.S.tube of size 20 x 20 mm and 1mm wall thickness. The lock rail made up to 'H' section, a uPVC hollow section of size 100x24 NS 2MM QI thickness, fixed to the shutter styles by means of plastic/galvanized M.S.'U' cleats. The shutter frames filled with a uPVC multi chambered single panel of size not less than 620mm, having overall thickness of 20 mm and 1 mm wall thickness. The panels filled vertically and tie bars at two places by inserting horizontally 6 mm galvanised M.S.rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge (for W.C. and Bath room door shutter) (SH : 9.118.1)</p>		<p style="text-align: center;">Rs.3,312.00  (Rs.Three thousand three hundred and twelve only)Rs.3,312.00  (Rs.Three thousand three hundred and twelve only)</p>	
Contractor.					

21	50 m2	Plastering(cement plaster) with <b>Cement Mortar 1:3</b> (1 cement, 3 fine sand) <b>6mm thick</b> , to the under side of roof slab including all cost of materials and labour charges, watering, curing etc complete (SH: 13.16.1)Plastering(cement plaster) with <b>Cement Mortar 1:3</b> (1 cement, 3 fine sand) <b>6mm thick</b> , 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.161.25 (Rs.One hundred and sixtyone and paise twentyfive)Rs.161.25 (Rs.One hundred and sixtyone and paise twentyfive)	8,063
22	60 m2	Plastering with Cement Mortar 1:4, 12 mm thick finished with a floating coat of cement to top of Rcc roof slab, sun shade etc inclusive of all cot of materials, labour, scaffolding charges, watering, curing etc . Complete (SH: 13.7.2)	m2	Rs.252.60 Rs.Twohundred and fiftytwo and paise sixty)Rs.252.60 Rs.Twohundred and fiftytwo and paise sixty)	15,156
23	840 m2	Plastering with <b>Cement Mortar 1:4</b> (1 cement ,4 fine sand) , <b>12mm thick</b> , to the internal and external walls including all costs of materials and labour charges watering , curing etc complete (SH: 13.1.1)Plastering with <b>Cement Mortar 1:4</b> (1 cement ,4 fine sand) , <b>12mm thick</b> , to the internal and external walls including all costs of materials and labour charges watering , curing etc complete (SH: 13.1.1)	m2	Rs.212.35 (Rs.Twohundred and twelve and paises thirtyfive)Rs.212.35 (Rs.Twohundred and twelve and paises thirtyfive)	1,78,374
24	310 m2	Providing Kota stone slab flooring ovr 20mm thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1:4 ( 1 cement : 4 coarse sand) <b>Slab thickness 25 mm (SH : 11.26.1)Providing Kota stone slab flooring ovr 20mm thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1:4 ( 1 cement : 4 coarse sand)</b> <b>Slab thickness 25 mm (SH : 11.26.1)</b>	m2	Rs.1260.00 (Rs.One thousand two hundred and sixty only)Rs.1260.00 (Rs.One thousand two hundred and sixty only)	3,90,600

Contractor.

25	25 m2	<p>Providing and laying anti-skid Ceramic glazed <b>floor tiles</b> of size <b>300 x 300mm</b> (thickness to be specified by the manufacturer), of 1st quality conforming to <b>IS :15622</b>, 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 cement and matching pigment ,etc complete (SH: 11.38)Providing and laying anti-skid Ceramic glazed <b>floor tiles</b> of size <b>300 x 300mm</b> (thickness to be</p>	m2	<p>Rs.905.00 (Rs. Nine hundred and five only)Rs.905.00 (Rs. Nine hundred and five only)</p>	22,625
26	40 m2	<p>Providing and fixing 1st quality ceramic glazed <b>wall tiles</b> confirming to <b>IS :15622</b>(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)Providing and fixing 1st quality ceramic glazed <b>wall tiles</b> confirming to <b>IS :15622</b>(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)</p>	m2	<p>Rs.974.00 (Rs.Nine hundred and seventyfour only)Rs.974.00 (Rs.Nine hundred and seventyfour only)</p>	38,960

27	5500 kg	Steel work in built up tubular trusses(round, square or rectangular hollow tubes tec.) including cutting, hoisting fixinf in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. compl;ete - Hot finished welded type tubes (SH: 10.16.1)	kg	Rs.102.60 Rs.One hundred and two and paise sixty)Rs.102.60 Rs.One hundred and two and paise sixty)	5,64,300
28	431 m2	Providing and fixing galvanized Iron profile sheets (size, shape and pitch of corrugation as approved by engineer-in-charge)o.50mm total coated thickness with zinc coating 120 grams per sqm as per IS : 277, in 240 mpa steel ghrade, 5-7 microns epoxy primer on both side of the sheet and polyster top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as dessired by Engineer-in-charge. The sheet shall be fixed using self drilling/self tapping screws of size (5.5 x 55mm) with EPDMseal, complete upto any pitch in horizontal/vertical or curved surfaces, excluding the cost of purl;ins, rafters, and trusses and including cutgting to size and shape wherever required. (SH : 12.50)	m2	Rs.569.20 (Rs. Five hundred and sixtynine and paise twenty)Rs.569.20 (Rs. Five hundred and sixtynine and paise twenty)	2,45,325
29	30 m	Providing and fixing pre coated galvanised steel sheet roofing accessories 0.50mm total coated thickness, Zinc coating 120 grams per sqm as per IS:277 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyster top coat 15-18 microns using self drilling/self tapping screws etc. complete <b>Ridges plain (500 - 600mm) (SH : 12.51.1)Providing and fixing pre coated galvanised steel sheet roofing accessories 0.50mm total coated thickness, Zinc coating</b>	m	Rs.768.70 (Rs. Seven hundred and sixtyeight and paise seventy)Rs.768.70 (Rs. Seven hundred and sixtyeight and paise seventy)	23,061

30	4 No.	Providing and fixing bright finished 100 mm mortice lock with 6 levers without paid of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineer-in-charge <b>(SH : 9.113)</b>	Each	Rs.481.40 (Rs.Four hundred and eightyone and paise forty)	1,926
31	4 Nos.	Providing and fixing aluminium round shape handle of outer dia 100mm with stainless steel screws etc. complete as per direction of Engineer-in-charge: Powder coated minimum thickness 50 microns aluminium <b>(SH : 21.16.2)</b>	Each	Rs.133.50 (Rs.One hundred and thirtythree and paise fifty)	534
32	52 Nos.	Providing and fixing aluminium casement stays, ISI marked, anodised (anodic coating not less than grade AC10 as per IS:1868) transparent or dyed to required colour and shade, with necessary screws etc. complete <b>(SH : 9.102)</b>	Each	Rs.64.15 (Rs.Sixtyfour and paise fifteen)	3,336
33	126 m2	Plinth protection work using Cement concrete 1:4:8 using 40mm nominal size stone for 10cmt thick well consolidated and plastered over with cement mortar 1:4:12 mm thick one floated hard and trowelled smooth finished to line and level etc. as per the direction of Engineer-in-charge.	m2	Rs.527.30 (Rs.Five hundred and twentyseven and paise thirty)	66,440
34	890 m2	Providing and applying one coat of Cement priming of approved brand and manufacturer, over the newly plastered surfaces after cleaning as per direction of Engineer-in-charge <b>(SH : 13.43.1)</b>	m2	Rs.35.00 (Rs. Thirtyfive only)	31,150
35	840 m2	Finishing walls with water proofing cement paint of required shape - <b>New works (Two or more coats applied @ 3.84kg/10m2) (SH : 13.44.1)</b>	m2	Rs.56.35 (Rs. Fiftysix and paise thirtyfive)	47,334
		<b>Total of Appx.A</b>			<b>48,35,342</b>
		<b>Appendix -B Plumbing and sanitary works</b>			

Contractor.

1		Supplying and laying PVC pipes of approved make conforming to IS 4985 for water supply pipe and conveying to position with all lead and lift laying true to line and level with required specials in floors or walls, clamping with iron or steel clips, screws to plugs jointing, testing, replacing if necessary, making good the wall etc etc inclusive of hire charges for scaffolding etc. <b>for interal work</b>			
	120 m	a. 110 mmdia PVC pipe of 6kgf/cm2	m	Rs.317.45 (Rs.Three hundred and seventeen and paise fortyfive)	38,094
	235 m	b. Do. Do - 63mm dia (6kgf/cm2)	m	Rs.145.15 (Rs.One hundred and fortyfive and paise fifteen)	34,110
	425 m	c. Do. Do - 50 mmdia (10kgf/cm2)	m	Rs.132.90 (Rs.One hundred and thirtytwo and paise ninety)	56,483
	80 m	d. Do. Do - 32 mm dia (10kgf/cm2)	m	Rs.72.15 (Rs.Seventytwo and paise fifteen)	5,772
	320 m	e. Do. Do - 25 mm dia (10kgf/cm2)	m	Rs.53.90 (Rs.fiftythree and paise ninety)	17,248
2		Providing and fixing 110mm dia PVC Specials as per direction inclusive of all fitting charges, solvent cement, conveyance, scaffolding etc. complete			
	40 Nos.	<b>110mm dia PVC</b> - plain bend	Each	Rs.150.50 (Rs.One hundred and fifty and paise fifty)	6,020
	10 Nos.	a. Do.do Plain Tee	Each	Rs.208.00 (Rs. Two hundredd and eight only)	2,080
	30 Nos.	b. Do. Do - plain elbow	Each	Rs.173.55 (Rs.One hundred and seventythree and paise fiftyfive)	5,207

Contractor.

	5 Nos.	c. Do. Do - Door elbow	Each	Rs.214.70 (Rs. Two hundred and fourteen and paise seventy)	1,074
	3 Nos.	d. Do. Do - Door Tee	Each	Rs.245.55 (Rs.Two hundred and fortyfive and paise fiftyfive)	737
	6 Nos.	e. Do. Do - vent cowl	Each	Rs.86.80 (Rs.Eightysix and paise eighty)	521
3		Providing, laying conveying to position and jointing to true line and level PVC pipes and specials for external works including earth work excavation for trenches and sand bedding in trencheds etc. jointing the pipes, testing and freplacing if necessary, etc inclusive of all cost of materials, labour, hire for scaffolding egtc. complete			
	100m	a. 110mm dia PVC pipe -6kgf/m2	m	Rs.308.15 (Rs. Three hundred and eight and paise fifteen)	30,815
	150 m	c. 50 mmdia pipes - 6kgf/m2	m	Rs.104.45 (Rs. One hundred and four and paise fortyfive)	15,668
4		Supplying and installing the following PVC ball/gate valve with ISI mark conforming to IS 778			
	5 Nos.	a. 50 mm PVC valve	Each	Rs.149.00 (Rs.One hundred and fortynine only)	745
5		Supplying and fixing following chromium plated brass fittings of approved make conforming to IS standard with flages if necessary, including all cost, labour, sundries and scaaffolding etc. complete.			

Contractor.



	15 Nos.	a. Do. Do 15mm nominal bore size long body tap	Each	Rs.223.00 (Rs. Two hundred and twentythree only)	3,345
	20 Nos.	b. 20mm size Angle cock	Each	Rs.292.70 (Rs.Two hundred and ninetytwo and paise seventy)	5,854
	2 Nos.	c. 20mm nominal boreH.P or L.P. ball valve with plastic floats	Each	Rs.511.00 (Rs. Five hundred and eleven only)	1,022
6	10 Nos.	Providing and fixing wash basin with CI brackets , 15 mmCP 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 <b>angle back wash basin size 600 x 480mm</b> with 15 mm CP brass pillar tap ( <b>SH: 17.7.5</b> )	Each	Rs.2622.35 (Rs.Two thousand six hundred and twentytwo and paise thirtyfive)	26,224
7	5 Nos.	Providing and fitting Aluminium towel rod of 20mmdia., 60cm longwith brackets	Each	Rs.327.65 (Rs. Three hundred and twentyseven and paise sixtyfive)	1,638
8	2 Nos.	Providing and fitting mirror of superior glass of approved quality and of required shape and sizee with plastic moulded frame of approved make and shade with 6mm thick hard backing: <b>Rectangular shape 1500 x 450mm (SH : 17.32.4)</b>	Each	Rs.1365.00 (Rs. One thousand three hundred and sixtyfive only)	2,730
9	5 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	Each	Rs.183.60 (Rs.One hundred and eightythree and paise sixty)	918
10	3 Nos.	Providing and fixing water closer squatting pan (Indian type W.C. Pan) with 100 mm sand cast iron P or S trap, 1`0 litre low level white PVC flushing cistern, including flush pipe, manually controlled device (handle lever) conforming to IS : 7231 will all fittings and fixtures complete including cutting and making good the walls and floors wherever required: <b>White Vitreous Chine Orissa Patter W.c. pan of size 580 x 440 mm with integral type foot rests (SH : 17.1.1)</b>	Each	Rs.3857.50 (Rs. Three thousand eight hundred and fiftyseven and paise fifty)	11,573

Contractor.

11	5 Nos.	Providing and fixing square - mouth S.W.gully trap class SP-1 complete with C.I grating brick masonry chamber with water tight C.I.Cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 100 x100 mm size P type with common burnt clay F.P.S.(non modular) bricks of class designation 7.5		Rs.1995.40 (Rs. One thousand nine hundred and ninetyfive and paise forty)	9,977
12	2 Nos0	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:2coarse sand :4 graded stone aggregate 20 mm nominal size )finished with neat cemeent flushing coat etc. complete as per standared design: <b>Inside size 90 x 80cm and 45 cm deep including CI cover with frame (light duty) 455 x 610 mm</b> 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 <b>(SH : 19.7.1.1)</b>	Each	Rs.9857.00 (Rs.nine thousand eight hundred and fiftyseven only)	19,714
13	5 Nos.	Providing and fixing square - mouth S.W.gully trap class SP-1 complete with C.I grating brick masonry chamber with water tight C.I.Cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 100 x100 mm size P type with common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	Rs.1995.45 (Rs.One thousand nine hundred and ninetyfive and paise fortyfive)	9,977

Contractor.

14	1 No.	Providing and fitting ready made PVC septic tank of size 4.00 x 1.00x 1.20m- or nearest size (suitable for for 50 users) inclusive of all cost of materials, labour, transportation, loading and unloading charges etc.	Each	Rs.30,800.00 (Rs.Thirty thousand and eight hundred only)	30,800
15	5000 ltr.	Supplying and fixing PVC storage tank as per direction including fitting connections but excluding the cost of fittings etc complete	Litre	Rs.5.60 (Rs. Five and paise sixty)	28,000
		Total of Appendix -B			3,66,346

**Total of Append A & B**

**R.52,01,688**

**Total Estimate P.A.C: Rs. Fiftytwo lakh one thousand six hundred and eightyeight only**

Contractor.