

**PONDICHERRY UNIVERSITY  
ENGINEERING WING**

**Name of the work: Construction of Toilet for The Additional Class Room of the Department of  
Chemistry**

**SCHEDULE OF WORK**

<b>S.No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
1 2.8.1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m -All kinds of soil.	10.14	Cum		
2 4.1.10	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering.- All work upto plinth level -1:5:10 (1 cement:5coarse sand : 10 graded stone aggregate 40mm nominal size)	2.95	Cum		
3 4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering.- All work upto plinth level -1:2:4 (1 cement:2coarse sand : 4 graded stone aggregate 20mm nominal size)	1.73	Cum		
4 6.1.2	Brick work with FPS bricks of class designation 35 in foundation and plinth in cement mortar 1:6 (1 cement : 6 coarse sand)	3.79	Cum		
5 6.4.2	Brick work with FPS bricks of class designation 35 in superstructure above plinth level upto floor V level in all shapes and sizes in cement mortar 1:6 (1 cement : 6 coarse sand)	0.33	Cum		
6 13.2	Half brick masonry with FPS bricks of class designation 35 in superstructure above plinth level upto floor V level in cement mortar 1:4 (1 cement: 4 coarse sand)	68.12	Sqm		
7 6.15	Extra for providing and placing in position 2 nos. 6mm dia MS bars at every third course of half brick masonry (with FPS bricks).	15.34	Sqm		

8 11.36 A	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture of approved make Jhonson / Asian / Somany / Nitco) in all colours, shades of size 200 x 300 mm as approved by Engineer -in-charge in skirting, risers of steps anddados over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm. Including pointing in white cement mixed with pigment of matching shade complete. - size 200x300mm	30.60	Sqm		
9 11.38	Providing and laying ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of first quality conforming to IS: 15622 of approved make (Bell / Johnson / Regency / Somany / Naveen / Asian ) in all colors, shades, except white, ivory, grey, fume red brown laid on 20mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc., complete.	12.74	Sqm		
10 9.119	Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitred at corners and joined with 2nos.of 150mm long brackets of 15x15mm M.S.square tube, the vertical door profiles to be reinforced with 19x19mm M.S.square tube of 19 gauge,EPDM rubber gasket weather seal to be provided through out the frame.The door frame to be fixed to the wall using M.S.screws of 5/100mm size complete as per manufacturers specification .	19.80	M		

<p>11 9.120. 1</p>	<p>Providing and fixing to existing door frames - 30mm thick factory made solid panel PVC door shutter consisting of frame made out of M.S.tubes of 19 gauge thickness and size of 19mm x 19mm for stiles, top &amp; bottom rails . M.S.frame shall have a coat of steel primers of approved make and manufacture M.S.frame covered with 5mm thick heat moulded PVC 'C channel of size 30mm thickness, 110mm width out of which 90mm shall be flat and 20mm shall be tapered in 45 degree angle on either side forming stiles; and 5mm thick , 110mm wide PVC sheet out of which 90mm shall be flat and 20mm shall be tapered on the inner side to form top and bottom rail and 130mm wide PVC sheet out of which 90mm shall be flat and 20mm shall be tapered on both sides to form lock rail.Top bottom and lock rails shall be provided either side of the panel 10mm(5mmx 2) thick , 20mm wide cross PVC sheet shall be provided as gap insert for top rail &amp; bottom rail. Panelling of 5mm thick PVC sheet to be fitted in the M.S.frame welded/sealed to the stiles &amp; rails with 7mm (5mm + 2mm) thick x 15mm wide PVC sheet bending on inner side , and joined together with solvent cement adhesive. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the 'C channel using PVC solvent adhesive etc.complete manufactures specification &amp; drawing.</p>	<p>6.30</p>	<p>Sqm</p>		
<p>12 5.13</p>	<p>Providing , hoisting and fixing upto floor five level precast reinforced cement concrete in small lintels not exceeding 1.5m clear span upto floor five level including the cost of required centring, shuttering and finishing smooth with 6mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces but excluding the cost of reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone Aggregate 20mm nominal -size)</p>	<p>0.29</p>	<p>Cum</p>		
<p>13 18.54. 1</p>	<p>Providing and fixing PTMT bib cock of approved quality and colour 15 mm nominal bore, 86mm long weighing not less than 88 gms.</p>	<p>4.00</p>	<p>Nos</p>		

14 13.161 .1F	Providing, laying and jointing UPVC pipes(Finolex/Jain) (0.6 Mpa)conforming to IS specification 4985 and ISI marked including transportation to the site,lowering to the trenches, laying to proper grade and alignment, testing of joints with required testing equipment,including cost of solvent cement,excluding UPVC specials such,asbends,tees,threadedpieces,couplers,reducer, andcaps etc.,complete all as per IS and CPWD specification. - 110mm dia.	20.00	M		
15 18.8.2	Providing and fixing chlorinated polyvinyl chloride (CPVC) pipes having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete (Concealed work including cutting chases and making good the walls etc.) - 20mm nominal outer dia pipes.	40.00	M		
16 17.1.1	Providing and fixing water closet squatting pan (Indian type W.C.pan) with 100mm sand cast iron P or S trap, 10 litre low level white P.V.C . Flushing cistern with 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 oriss pattern W.C .pan of size 580X 440mm with integral type foot rests.	2.00	Nos		
17 17.4.1	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350xmm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and CP brass spreaders with brass unions and G.I clamps complete, including paintings of fittings and brackets, cutting and making good the walls and floors wherever required. One urinal basin with 5 litre white PVC automatic flushing cistern.	5.00	Nos		
18 17.13. 1	Providing and fixing white vitreous china water closet squatting pan (Indian type) Long pattern WC pan of size 580mm.	3.00	Nos		

19 8.10.1	Providing and fixing 18mm thick stone slab table rubbed, edges rounded and polished of size 75x50 cm deep and 1.8cm thick fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 6 mm nominal size) and finished smooth. - White Agaria marble stone.	4.80	Sqm		
20 5.18.1	Providing precast cement concrete jali 1:2:4 (1cement :2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centring and shuttering , roughening cleaning , fixing and finishing in cement mortar 1:3 (1 cement : 3 fine sand) etc. complete excluding plastering of the jams , sills and soffits.- 50 mm	1.80	Sqm		
21 12.70	Providing and fixing colour coated galvalume sheet of 550 M.P.A yield of AZ 150 strength formed as per patterned steel rib profile with the depth of 31mm pitch of 250mm and overall width of 1060mm and thickness 0.5mm with required J or C hook bolts and nuts 8mm dia G.S paint and working etc., complete excluding the cost of purlin , rafter and truss etc.,	20.00	Sqm		
22 13.3.2	20mm cement plaster of mix 1:6 (1cement : 6 fine sand)	67.05	Sqm		
23 13.2.1	15 mm cement plaster on the rough side of single or half brick wall of mix - 1:4 (1 cement : 4 fine sand).	45.90	Sqm		
24 13.61.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade - Two or more coats on new work.	7.38	Sqm		
25 13.47.1	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives "Snowcryl - XT" of M/s Snowcem India Ltd., or equivalent of required shade: New work (Two or more coats applied @ 1.43 litre / 10 sqm. Over and including base coat of water proofing cement paint Snowcem plus or equivalent applied @ 2.20 kg / 10 sqm)	112.95	Sqm		
26 5.22.6	Reinforcement for R.C.C work including straightening , cutting , bending , placing in position and binding all complete - Thermo - Mechanically treated bars (TISCON / VIZAG / IISCO /SAIL / JSW) including placing the M30 grade Athees make cover block @ 60cm centre to centre	75.09	Kg		

27 10.16. 1	Steel work in built up tubular trusses including cutting, hoisting fixing in position and applying a priming coat of approved steel primer welded and bolted including special shaped washers etc. complete. Hot finished welded type tubes.	224.49	Kg		
				Total	

I here by abide the rules and regulations stipulated in the CPWD form no. 6 & 8.

**Contractor**

**Superintending Engineer**