

PONDICHERY UNIVERSITY
ENGINEERING WING

SCHEDULE OF WORK

Name of the work: Constructing of additional toilet along with septic tank at Community College

S. No.	Description	Qty.	Rate Rs.P.	Unit	Amount Rs.P.
1	Code no: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.	50.00		cum	
2	Code no:2.27				
	Supplying and filling in plinth with sand under floors including, watering, ramming consolidating and dressing complete.	7.00		cum	
3	Code no: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)	11.00		cum	
4	Code no:5.1.3				
	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work upto plinth level : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	6.50		cum	
5	Code no:4.1.4				
	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	1.50		cum	

	:2coarse sand : 4 graded stone aggregate 40mm nominal size)				
6	Code no: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	410.00		kg	
7	Code no:6.1.1				
	Brick work with FPS bricks of class designation 35 in foundation and plinth in cement mortar 1:4 (1 cement : 4 coarse sand)	9.55		cum	
8	Code no:6.12.2				
	Half brick masonry with FPS bricks of class designation 35 in foundation and plinth in cement mortar 1:4 (1 cement: 4 coarse sand)	5.50		sqm	
9	Code no: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)	33.00		sqm	
10	Code no:2.25				
	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m and lift upto 1.5m.	15.28		cum	
11	Code no:5.2.3				
	Reinforced cement concrete work in walls (any thickness), including attached pilasters , buttresses, plinth and string courses , fillets, columns , pillars, piers, abutments, posts and struts etc.upto floor five level excluding cost of centering, shuttering,finishing and reinforcement:1:2:4(1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	1.80		cum	

12	Code no:5.3				
	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15 degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	8.50		cum	
13	Code no: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	870.00		kg	
14	Code no: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)	23.50		cum	
15	Code no: 5.9.3				
	Centring and shuttering including strutting, propping etc. and removal of form for : suspended floors, roofs, landings , balconies and access platform - Using steel sheet with M.S.frames	54.00		sqm	
16	Code no: 5.9.6				
	Centring and shuttering including strutting, propping etc. and removal of form for: columns, pillars, piers, abutments,posts and struts.- Using steel sheet with M.S.frames	38.00		sqm	
17	Code no: 5.9.5				
	Centring and shuttering including strutting, propping etc. and removal of form for: lintels, beams, plinth beams, girders, bressumers and cantilevers.- Using steel sheet with M.S.frames	38.00		sqm	
18	Code no: 6.8				
	Brick work 7 cm thick with FPS brick of	13.70		sqm	

	class designation 35 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure.				
19	Code no:13.3.2				
	20mm cement plaster of mix cement mortar 1:6 (1 cement : 6 fine sand)	180.00		sqm	
20	Code no: 13.5.1				
	15mm cement plaster on rough side of single or half brick wall of mix - 1:4 (1 cement : 4 coarse sand)	240.00		sqm	
21	Code no: 13.16.1				
	6mm cement plaster of mix 1:3 (1 cement : 3 fine sand).	40.00		sqm	
22	Code no: 19.33.1				
	Providing and fixing on wal /column face unplasticed - PVC soil and waste pipes (type-B) conforming to IS:13592-1992 including jointing with seal ring conformation to IS: 5382 leaving 10mm gap for thermal expansion - single socketed pipes 110mm diameter	50.00		metre	
23	Code no: 17.2.1				
	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 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. W.C pan with ISI marked white solid plastic seat and lid.	2.00		nos	
24	Code no: 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 orissa pattern W.C .pan of size 580X 440mm with integral type foot rests.	2.00		nos	

25	Code no: 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.	13.00		no	
26	Code no: 18.9.12				
	Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall) - 25mm nominal outer dia pipes	50.00		metre	
27	Code no:17.7.4				
	Providing and fixing wash basin with CI brackets, 15mm CP brass pillar taps 32 mm CP brass waste of standard pattern including painting of fittings and brackets, cutting and making good the walls wherever required White vitreous china flat back wash basin size 550x400mm with single 15mm CP brass pillar taps.	2.00		no	
28	Code no:18.53.1				
	Providing and fixing CP brass angle valve for basin mixer and geyser points of approved quality conforming to IS 8931 - 15 mm nominal bore.	17.00		each	
29	Code no:11.39.1				
	Providing and laying rectified glazed ceramic floor tiles 300x300mm or more(thicknes to be specified by the manufacturer) of commercial quality conforming to IS: 15622 of approved make (Somany / Nitco / Johnson)in colors white, ivory, grey, fume red brown laid on 20mm thick cement	40.00		sqm	

	mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.				
30	Code no:11.36F				
	Providing and fixing commercial 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 300 x 600 mm in skirting, risers of steps and dados 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 300x600mm	88.00		sqm	
31	Code no: 10.5.1				
	Providing and fixing 1mm thick M.S. sheet door with frame of 40X40X6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angles 40X40X6mm for diagonal braces.	2.10		sqm	
32	Code no: 18.9.15				
	Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step ASTM solvent cement and testing of joints complete (Internal work exposed on wall) - 50mm nominal outer dia pipes	20.00		metre	
33	Code no: 31.9.6				
	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end) - 50mm nominal bore.	2.00		each	
34	Code no: 31.10.3.3				
	Providing and fixing ball valve (brass) of approved quality complete - high or low pressure with plastic floats - 25mm nominal bore.	1.00		each	
35	Code no: 18.48				

	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI: 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet outlet and overflow pipes but without fittings and the base support for tank	1000.00		litre	
36	Code no: 18.54.3				
	Providing and fixing PTMT bib cock of approved quality and colour 15 mm nominal bore, 165mm long weighing not less than 110 gms.	5.00		each	
37	Code no: 19.19.1.1				
	Providing and fixing in position precast R.C.C manhole cover and frame of required shape and approved quality LD-2.5 Rectangular shape 600x450mm internal dimensions.	1.00		no	
38	Code no:13.37.1				
	White washing with lime to give on even shade - New work (three or more coats).	40.00		sqm	
39	Code no:13.41.1				
	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade - New work (two or more coats) over and including priming coat with cement primer.	90.00		sqm	
40	Code no: 13.47.1				
	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade - New work (Two or more coats applied @ 1.43 ltr / 10 sqm over and including base coat of water proofing cement paint applied @ 2.20 kg/10 sqm).	175.00		sqm	
41	Code no: 9.117.2				
	Providing and fixing factory made UPVC door frame made of UPVC extruded, section having an overall dimension , as below (tolerance +/- 1mm) with wall thickness 2.0mm +/- 02mm . Corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joint mitred and	20.00		metre	

	plastic wilded . The hinge side vertical of the frames reinforced by galvanized M.S.tube of size 19x19mm and 1 mm +/- 0.1mm wall thickness and 3 nos.stainless steel hinges fixed to the frame complete as manufacturers specification - Extruded section Profile size 42x50mm.				
42	Code no:9.118.2				
	Providing and fixing to existing door frames - 30mm thick factory made (polyvinyl chloride) PVC door shutters made of styles and rails of a UPVC profile section of size 30x60mm and wall thickness 2mm +or- 0.2mm with inbuilt decorative moulding edging on one side. The styles and rails with plastic brackets of size 75x220mm metre and welded at the corners. The - stiles of the shutter reinforced by inserting galvanized M.S.tube of size 25x20mm and 1mm + or - 0.1mm wall thickness. The lock rail made up of 'H' section , a UPVC profile section of size 30mm x 100mm and 2mm + or - 0.2 wall thickness welded to the shutter style with a UPVC profile section single panel of size not less than 620mm, having overall thickness of 20mm and 1mm + or - 0.1mm wall thickness with 20mm panel beading of suitable size / glass (4mm thick plain glass) / louver section, louver frame of suitable size, as per manufactures specification. (For W.C. and bathromm door shutter)	8.40		sqm	
43	Code no: 9.97.4				
	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 or shade with necessary screws etc.complete : - 150x10mm	8.00		each	
44	Code no: 9.100.1				
	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	8.00		each	

	shade with necessary screws etc.complete :-125mm				
45	Code no: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.	2.40		Sqm	
46	Code no: 21.1.1.2				
	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, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC / neoprene felt 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. (Glazing and panelling to be paid for separately) : For fixed portion. Powder coated aluminium (minimum thickness of powder coating 50 micron)	12.00		Kg	
47	Code No: 2406				
	Flot glass sheet of nominal thickness 4mm (weight not less than 10kg/sqm)	0.60		Sqm	
48	Code no:31.168.1I				
	Providing and fixing in position UPVC moulded elbow (Finolex/Jain)(1 Mpa) conforming to IS 7834 part II and ISI marked,including labour charges for jointing, jointing materials etc,complete - 110mm dia	8.00		each	
49	Code no: 12.42.3.2				
	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	8.00		No	

	seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion. Single Tee with door 110X110X110mm.				
50	Code no: 12.43.2				
	Providing and fixing unplasticised - PVC clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4(1 cement : 4 coarse sand) and making good the wall etc. complete. 110mm	8.00		No	
51	Code no: 12.42.6.2				
	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. Shoe (plain)110mm shoe.	2.00		No	
52	Code no: 19.7.2.1				
	Constructing brick masonry manhole in cement mortar 1:4(1 cement : 4 Coarse sand) R.C.C top slab with 1:2:4 mix (1 cement : 2 Coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design Inside size 120x90 cm and 90 cm deep including CI cover with frame (medium duty) 500 mm internal diameter total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) with F.P.S bricks with class designation 75.	1.00		each	

53	Code no: 12.20L				
	Lime concrete terracing on roofs of required thickness laid to fall with 25mm nominal size brick aggregate and 50% lime mortar 1:2 (1 lime putty : 2 surkhi) rammed and finished with gur and belgiri treatment complete including rounding of junctions with parapet wall complete	6.00		cum	
54	Code no: 13.18				
	Neat cement punning.	29.00		sqm	
55	Code no: 17.31				
	Providing and fixing 600x450mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P brass screws and washers complete.	2.00		No	
	Total				

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

Contractor

Executive Engineer