PONDICHERRY UNIVERSITY ENGINEERING WING

SCHEDULE OF WORK

Name of the work: Renovation to toilets at Pavendar Bharathidasan Gents hostel

S.	Description	Qty.	Rate	Unit	Amount
No.			Rs.P.		Rs.P.
1 15.1 2.1	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead - of area 3 sqm and below	39.00		each	
2 15.2 3.1	Dismantling tile work in floors and roofslaid in cement mortar including stacking material within 50 metres lead – for thickness of tiles 10mm to 25mm	300.00		Sqm	
3 15.5 6	Dismantling old plaster or skirting rakingout joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead	75.00		Sqm	
4 15.4 2.2	Dismantling C.I. or asbestos rain waterpipe with fittings and clamps including stacking the material within 50 metres lead - 100 mm dia pipe	80.00		metre	
5 15.2. 2	Nominal concrete 1:4:8 or leaner mix (including equivalent design mix)	22.00		cum	
6 22.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying:- a) First layer of slurry of cement @0.488 kg / sqm mixed with water proofing cement compound @ 0.253 kg / sqm. This layer will be allowed to air cure for 4 hours - b) second layer of slurry of cement @ 0.242 kg / sqm mixed with water proofing cement compound @ 0.126 kg /sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate included preparation of surface, tratment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	62.00		Sqm	
7 19.3 3.2	Providing and fixing on wall / column faceunplasticised - PVC soil and waste pipes (type B) conforming to IS :13592 - 1992 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - Single socketed pipes 75mm diameter	20.00		metre	
8 19.3 3.1	Providing and fixing on wall / column faceunplasticed - PVC soil and waste pipes (type - B) conforming to IS: 13592-1992 including jointing with seal	60.00		metre	

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	ring conformation to IS: 5382 leaving			
	10mm gap for thermal expansion -			
	single socked pipes -110mm diametre			
9	Providing and fixing M.S.holder -			
17.3	batclamps of approved design to sand			
	1 11			
7.1	cast iron / cast iron (spun) pipe			
	embedded in and including cement			
	concrete blocks 10x10x10 cm of 1:2:4	18.00	clamp	
	mix (1 cement : 2 coarse sand : 4 graded	10.00		
	=			
	stone aggregate 20mm nominal size),			
	including cost of cutting holes and			
	making good the walls etc for 100mm			
	dia pipe			
10	Providing and fixing on wall face /			
	•			
19.3	columnface unplasticised - PVC			
3.1B	moulded fittings / accessories for			
	unplasticisd - PVC soil and waste pipes			
	conforming to IS:14735 – 1999	15.00	each	
	conforming to IS:5382 leaving 10mm			
	gap for thermal expansion - Single tee			
	without door - 110 x110x110mm			
11	Providing and fixing on wall / column			
19.3	_			
	faceunplasticisd - PVC moulded fittings			
3.2C	/ accessories for unplasticisd - PVC soil	15.00	each	
	and waste pipes conforming to IS:14735	13.00	each	
	-1999 including jointing with seal ring			
	conforming to IS: 5382 leaving 10mm			
	gap for thermal expansion - Bend 75 mm			
12	Providing and fixing on wall face /			
19.3	columnface unplasticised - PVC mould			
3.1C	fittings / accessories for unplasticisd -			
3.10	PVC soil and waste pipes conforming to	15.00	1-	
		15.00	each	
	IS: 14735 – 1999 including jointing			
	with seal ring conforming to IS: 5382			
	leaving 10mm gap for thermal expansion			
	- bend 110 mm			
12				
13	Providing and laying in position			
4.1.1	cementconcrete of specified grade			
1A	excluding the cost of centering and	22.00		
	shuttering - all work upto plith level -	22.00	cum	
	1:5:10 (1 cement : 5 coarse sand : 10			
	· ·			
	graded brick aggregate 40mm nominal			
	size)			
14	Providing and fixing white vitreous			
17.2.	china pedestal type water closet			
$\frac{17.2}{2}$	7 7			
2	(European type W.C.pan) with seat and			
	lid, 10 litre low level white P.V.C.			
	flusing cistern, including flush pipe, with			
	manually controlled device (handle	3.00	each	
	lever), conforming to IS: 7231, with all	5.00	Cucii	
	_			
	fittings and fixtures complete, including			
	cutting and making good the walls and			
	floors wherever required - W.C. pan			
	with ISI marked black solid plastic seat			
	and lid			
1 5				
15	Providing and fixing water closet			
17.1.	squattingpan (Indian type W.C.pan) with	6.00	anah	
1	100 mm Sand Cast Iron P or S trap, 10	0.00	each	
	litre low level white P.V.C flusing			
	cistren, including flush pipe, manually			
	cionen, including main pipe, manually		1	

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	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			
	580x440mm with integral type foot			
	rests.			
16	Providing and fixing white vitreous			
17.2	china flat back or wall corner type lipped	9.00	each	
	7	7.00	Cacii	
3	front urinal basin of 430x260x350mm or			
	340x410x265mm sizes respectively			
17	Providing and fixing white vitreous			
17.2	chinawash basin including making all			
		9.00	each	
5.1	connections but excluding the cost of			
	fittings – flat back wash basin of size			
	630x450mm			
18	Providing and fixing stone slab with			
	_			
8.10.	tablerubbed , edges rounded and			
2	polished, of size 75x50 cm deep and			
	1.8cm thick, fixed in urinal partitions by			
	cutting a chase of appropriate width with			
		9.00	sqm	
	chase cutter and embedding the stone in	7.00	l Squi	
	the chase with epoxy grout or with			
	cement concrete 1:2:4 (1 cement : 2			
	l ·			
	coarse sand : 4 graded stone aggregate			
	6mm nominal size) and finished smooth			
	- Granite stone of approved shade			
19	Providing and fixing PTMT waste			
17.6	couplingfor wash basin and sink, of			
9.1	approved quality and colour - waste	18.00	each.	
	coupling 31 mm dia of 79 mm length			
	and 62 mm breadth weighing not less			
	than 45 gms			
20	Providing and fixing PTMT bib cock of			
18.5	approved quality and colour - 15mm	18.00	each	
4.1	nominal bore, 86 mm long, weighing	10.00	Cucii	
7.1				
	not less than 88gms			
21	Providing and fixing PTMT bib cock of			
18.5	approved quality and colour - 15mm	18.00	each	
	·	10.00	Cacii	
4.2	nominal bore, 122 mm long, weighing			
	not less than 99 gms			
22	Providing and fixing PTMT pillar cock			
18.5	of approved quality and colour - 15 mm	9.00	anah	
		9.00	each	
6.1	nominal bore, 107 mm long, weighing			
	not less than 110 gms			
23	Providing and fixing PTMT, push cock			
		0.00	1	
18.5	of approved quality and colour - 15 mm	9.00	each	
7.1	nominal bore, 98 mm long, weighing not			
	less than 75 gms			
24	Providing and fixing PTMT angle stop			
		27.00	each	
18.6	cock15 mm nominal bore, weighing not			
3	less than 85 gms			<u> </u>
25	Providing and fixing unplasticised			
18.7	P.V.C. connection pipe with PTMT nuts,			
	1 1	36.00	each	
4.2	collar, and bush of approved quality and	22.00		
	colour - 15 mm nominal bore with 45cm			
	lenghth			
26	5	6.00		
	Providing and fixing 600x450 mm	6.00	number	
17.3	beveled edge mirror of superior glass (of			

			T	
1	approved quality) complete with 6mm thick hard board ground fixed to wooden			
	cleats with C.P.brass screws and washers			
	complete			
27	Providing and fixing PTMT swivelling	9.00	each	
18.6	shower, 15mm nominal bore, weighing	7.00	caen	
28	not less than 40 gms Providing and fixing PTMT stap cook of			
18.5	Providing and fixing PTMT stop cock of approved quality and colour - 20 mm	27.00	each	
5.2	nominal bore, 89mm long, weighing not	27.00	eacii	
0.2	less than 88 gms			
29	Providing and fixing commercial			
11.3	qualityceramic glazed wall tiles			
6C	conforming to IS: 15622 (thickness to be			
	specified by themanufacturer), of			
	approved make (Jhonson /Asian /			
	Somany / Nitco) in all colours ,shades of size 300 x 600 mm as approvedin		aam	
	skirting, risers of steps and dados, over	221.00	sqm	
	12mm thick bed of cement mortar 1:3			
	(1cement : 3 coarse sand) and jointing			
	withgrey cement slurry @ 3.3 kg per			
	sqm,including pointing in white cement			
	withpigment of matching shade			
30	complete – size300x600 mm			
11.3	Providing and laying ceramic glazed floor tiles of size 300 x 300 mm			
8.1	(thickness to be specified by the			
	manufacturer) , of 1st quality			
	conforming to IS :15622, of approved			
	make (Nitco / Kajaria) in all colours,	75.00	sqm	
	shades, except white , ivory, grey, fume			
	red brown, laid on 20 mm thick bed of cement mortar 1:4 (1 cement : 4 coarse			
	sand), including pointing the joints with			
	white cement and matching pigments			
	etc., complete			
31	Providing and fixing ASTM pipes			
18.9.	including all ASTM plain& brass			
12	threaded fittings i/c fixing the pipe with			
	clamps at 1.00m spacing. This includes	20.00	metre	
	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			
32	Providing and fixing ASTM pipes			
18.9.	includingall ASTM plain& brass			
13	threaded fittings i/c fixing the pipe with			
	clamps at 1.00m spacing. This includes jointing of pipes & fitting with one step	20.00	metre	
	ASTM solvent cement and testing of			
	joints complete (Internal work exposed			
	on wall) - 32mm nominal outer dia			
	pipes			
33	Supply and fixing of side hung window			
16.1	at all levels made out of un plasticised			
17	Poly vinyl chloride frame from approved	26.00	sqm	
	make of natural colour with casement outer frame of size 56x48x30mm,			
	shutter frame 66x56x30mm\ with wall			
	The same of the sa		I	i

	thickness of 1.8mm (+/-0.3mm) and 5mm thick, clear glass. The gasket should be made of EPDM (Ethylene propylene dimonomer) with double gasket sealing and applying silicone sealants outside and acrylic sealent inside. The sections should be reinforced with GI sheet of 1.5mm thick with suitable drainage grouting including all necessary hardware fittings etc., all complete as per architectural drawings and the engineer -in - charge.			
34 17.2 8.1.1	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC waste fittings complete - semi rigid pipe - 32mm dia Providing and fixing trap of self-	18.00	each	
MR App rove d prev ious esti mate	cleansingdesign with screwed down or hinged grating with or without vent arm complete,including cost of cutting and making good the walls and floors 100 mm inlet and 100mm outlet UPVC/PVC	30.00	each	
36 14.6 7.2	Finishing walls with premium acrylic smooth exterior paint with silicon additives of required shade - old work (one or more coats applied @0.83 ltr /10 sqm)	235.00	sqm	
37 13.4 7.1	Finishing walls with premium acrylic smoothexterior paint with silicone additives of required shade - New work (two or more coats applied @1.43 ltr / 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg / 10sqm)	75.00	sqm	
38 13.3.	20mm cement plaster of mix -1:4 (1 cement :4 fine sand)	75.00	sqm	
39 14.1. 1	Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5 sq.metres and under including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead - with cement mortar 1:4 (1 cement : 4 fine sand)	10.00	sqm	
40 9.11 9	Providing and fixing factory made P.V.C.door frame of size 50x 47 mm with a wall thickness of 5mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 nos, of 150mm long brackets of 15 x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19 x19 mm 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	90.00	metre	

41 9.12 0.1	M.S.screws of 65 / 100 mm size, complete as per manufacturter's specification Providing and fixing factory made panel PVC door shutter consisting of frame made outof M.S.tubes of 19 gauge thickness and sizeof 19 mm x 19 mm for styles and 15 x15 mmfor top & bottom rails. M.S.frame shallhave a coat of steel primers of approvedmake and manufacture. M.S. frame coveredwith 5 mm thick heat moulded PVC 'C'channel of size 30mm thickness, 70 mm widthout of which 50 mm shall be flat and 20 mmshall be tapered in 45 degree angle on bothside forming styles and 5 mm thick, 95 mmwide PVC sheet out of which 75 mm shall beflat and 20 mm shall be tapered in 45degree on the inner side to form top andbottom rail and 115 mm wide PVC sheet outof which 75 mm shall be flat and 20 mmshall be tapered on both sides to form lockrail. Top , bottom and lock rails shall beprovided both side of the panel. 10mm (5 mmx 2) thick , 20 mm wide cross PVC sheet beprovided as gap insert for top rail ⊥ rail , panelling of 5 mm thick bothside PVC sheet to be fitted in the M.S. frame welded / sealed to the styles & rails with 7 mm (5 mm + 2 mm) thick x 15 mm wide PVC sheet beading on inner side , and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete manufacturer's specification & rawing - 30mm thick plain PVC door shutters	26.00	Sqm	
42 9.20. 2	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part 1)decorative type, core of block boardconstruction with frame of 1 st class hardwood and well matched teak 3 ply veneeringwith vertical grains or cross bands and face veneers on both faces of shutters – 30mm thick including ISI marked StainlessSteel butt hinges with necessary screws	6.00	Sqm	
43 9.1.3 V	Providing wood work in frames of doors, windows, clerestory windows and otherframes, wrought framed and fixed inposition with hold fast lugs or with dashfasteners of required dia & length	0.11		

	(holdfast lugs or dash fastener shall be			
	paidfor separately) - Kiln seasoned			
	andchemically treated Vengai wood			
44	Providing 40 X 5 mm flat iron hold fast			
0.50	40 cm long including fixing to frame			
9.53	with 10mm diameter bots, nuts and	18.00	Each	
	wooden plugs andembeddings in cement	16.00	Each	
	concrete block 30 x10x 15 cm 1:3:6 mix			
	(1 cement : 3 coarse sand: 6 graded			
	stone aggregate 20mm nominalsize)			
45	Providing and fixing aluminium handles			
0.10	ISI marked anodised (anodic coating not			
9.10	less than grade AC 10 as per IS:1868)	36.00	Each	
0.3	transparent or dyed to required colour or	30.00	Lacii	
	shade with necessary screws			
	etc.complete			
	:-75mm			
46	Providing and fixing aluminium tower			
9.97.	bolts ISI marked anodised (anodic			
	coating not less than grade AC 10 as per	36.00	Each	
5	IS:1868) transparent or dyed to required			
	colour or shade with necessary screws			
	etc.complete :			
47	- 100x10mm			
47 9.96.	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic			
9.90.	coating not less than grade AC 10 as per	3.00	Eagle	
2	IS:1868) transparent or dyed to required	3.00	Each	
	colour or shade with nuts and screws			
	etc.complete:-250x16mm			
48	Providing and fixing aluminium tower			
9.97.	bolts , ISI marked , anodised (anodic			
3	coating notless than grade AC 10 as per	6.00	Each	
	IS :1868) ,transparent or dyed to	0.00	Lacii	
	required colour orshade, with necessary			
	screws etc. complete- 200 x10 mm			
49	Providing and fixing aluminium handles			
9.10	, ISI marked , anodised (anodic coating			
0.1	notless than grade AC 10 as per IS :	6.00	Each	
	1868)transparent or dyed to required			
	colour orshade, with necessary screws			
	etc, complete -125 mm			
50	Painting with synthetic enamel paint of			
13.6	approved brand and manufacture of			
2.1	requiredcolour to give an even shade -	16.00	Cam	
	Two or morecoats on new work over an	10.00	Sqm	
	under coat ofsuitable shade with			
	ordinary paint of approved brand and			
	manufacure			
	TOTAL			
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I hereby abide the rules and regulations stipulated in the CPWD form no. 6 & 8.