PONDICHERRY UNIVERSITY ENGINEERING WING

SCHEDULE OF WORK

Name of the work: Construction of toilet, aluminum partition and false ceiling at PUTA office and Faculty club

S.No.	Description	Qty.	Rate Rs.P.	Unit	Amount Rs.P.
1	Code No: 15.2.1				
	Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead - 1:3:6 or richer mix.	1.00		Cum	
2	Code No: 15.7.4				
	Demolishing brick work, manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead - In cement mortar.	0.25		Cum	
3	Code No: 2.8.1				
	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	6.50		Cum	
4	Code No: 2.27				
	Supplying and filling in plinth with sand under floors including, watering, ramming consolidating and dressing complete.	1.00		Cum	
5	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	2.50		Cum	

	50m and lift upto 1.5m.		
6	Code No: 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 -1:4:8 (1 cement:4coarse sand: 8 graded stone aggregate 40mm	2.00	Cum
7	nominal size)		
7	Code No: 2.27B	2.00	
	Supplying and filling with red earth (excluding rock) including cost and conveyance to the work site and stacking to the departmental gauge, spreading in layers not exceeding 20cm in depth, watering and consolidation using 0.5 tonne roller, or wooden or steel rammers etc.complete for making play fields, running tracks and court yards.	2.00	Cum
8	Code No: 5.3.1		
	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 1:1.5:3 (1 cement :1.5 coarse sand : 3 graded stone aggregate 20mm nominal size).	0.75	Cum
9	Code No: 5.9.5		
	strutting, propping etc. and removal of form for: lintels, beams, plinth beams, girders, bressumers and cantilevers Using steel sheet with M.S.frames	5.00	Sqm
10	Code No: 5.22.7	100.00	
	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete - Thermo - Mechanically treated bars(ISI	100.00	Kg

	DDAND OF ADDDOVED MAKE		
	BRAND OF APPROVED MAKE)		
	including placing the M30 grade Athees make cover block @ 60cm		
	centre to centre.		
11	Code No: 6.1.2		
11	Brick work with FPS bricks of class	3.00	Cum
	cum designation 35 in foundation	3.00	Cum
	and plinth in cement mortar 1:6 (1		
	cement : 6 coarse sand)		
12	Code No: 6.4.2		
	Brick work with FPS bricks of class	6.50	Cum
	designation 35 in superstructure	0.50	Cum
	above plinth level upto floor V level		
	in all shapes and sizes in cement		
	mortar 1:6 (1 cement : 6 coarse		
	sand)		
13	Code No: 6.13.1		
	Half brick masonry with FPS bricks	5.00	Sqm
	of class designation 35 in		
	superstructure above plinth level		
	upto floor V level in cement mortar		
	1:3 (1 cement: 3 coarse sand)		
14	Code No: 9.119		
	Providing and fixing factory made	21.00	Rmt
	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,EDM		
	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 65/100mm size		
	complete as per anufacturers		
	specification.		
15	Code No: 9.120.1		
	Providing and fixing to existing door	8.00	Sqm
	frames - 30mm thick factory made		
	solid panel PVC door shutter		
1	_		
	consisting of frame made out of		
	_		

	& 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 drgree			
	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			
	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 & bottom rail.			
	Panelling of 5mm thick PVC sheet			
	to be fitted in the M.S.frame			
	welded/sealed to the stiles & 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			
	manafactures specification &			
	drawing.			
16	Code No: 18.15.1			
	Providing and fixing brass bib cock	2.00	Each	
	of approved quality - 15 mm			
	nominal bore.			
17	Code No: 18.21.2.1			
	Providing and fixing uplasticised	4.00	Each	
	PVC connection pipe with brass			
	unions 45 cm length 15 mm nominal			
	bore.			
18	Code No: 17.28.1.1			
	Providing and fixing PVC waste	2.00	Each	

	pipe for sink or wash basin		
	including PVC waste fittings		
	complete - Semi rigid pipe - 32mm		
	dia.		
19	Code No: 17.2.1		
	Providing and fixing white vitreous	1.00	Each
	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.		
20	Code No: 17.1.2		
	Providing and fixing water closet	1.00	Each
	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 : Stainless steel AISI -		
	304(18/8) Orissa pattern W.C.pan of		
	size 585x480mm with flush pipe and		
	1 1		
21	integrated type foot rests.		
21	Code No: 17.7.3	2.00	E1
	Providing and fixing wash basin	2.00	Each
	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 wash		
	basin size 550x400mm with a pair of		
	15mm brass pillar taps.		
22	Code no: MR.		
	Providing and fixing PVC 110 x 75	4.00	Each
	PVC floor trap with stiff mixer of		
	cement mortar 1:1 (1 cement: 1 fine		
	`	1	1

	sand)		
23			
23	Providing and laying ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of commercial 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	9.00	Sqm
	matching pigments etc., complete.		
24	Code no: 11.36A		
25	Providing and fixing 1st quallity 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 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 200x300mm	22.00	Sqm
25	Code no: 11.52	11.00	D (
26	Providing and fixing PVC corner beading of required size to suit the thickness of the wall tile at the corner joints of dado works	11.00	Rmt.
26	Code No: 9.97.4	12.00	Fach
	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	12.00	Each
27	Code Mo: 9.100.1		
	Providing and fixing aluminium	20.00	Each

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	handles ISI marked anodised			
	(anodic coating not less than grade			
	as per 10 as per IS:1868)			
	transparent or dyed to required			
	colour or shade with necessary			
	screws etc.complete :-125mm			
28	Code No: 9.100.2			
	Providing and fixing aluminium	20.00	Each	
	handles ISI marked anodised (anodic			
	coating not less than grade as per			
	10 as per IS:1868) transparent or			
	dyed to required colour or shade			
	with necessary screws etc.complete			
	:-100mm			
29	Code No: 9.101.1			
49	Providing and fixing aluminium	4.00	Each	
		+.00	Lacii	
	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 -			
	Twin rubber stopper			
30	Code No: 17.78.1			
	Providing and fixing CP brass health	2.00	Each	
	faucet of approved quality - 15mm			
	nominal bore			
31	Code No: MR			
	Providing and fixing Stainless steel	4.00	Each	
	grating for floor trap			
32	Code No: MR			
	Providing and fixing PVC pipe	50.00	Rmt	
	complete with fittings and clamps			
	including cutting and making good			
	the walls etc., (internal work)			
	exposed on a wall 20mm nominal			
	outer dia pipe.			
33	Code No: 21.1.1.1			
	Providing and fixing aluminimum	94.00	 Kg	
1				
	work for doors, windows, ventilators			
	work for doors, windows, ventilators and partitions with extruded built up			
	and partitions with extruded built up			
	and partitions with extruded built up standard tubular sections /			
	and partitions with extruded built up standard tubular sections / appropriate Z sections and other			
	and partitions with extruded built up standard tubular sections / appropriate Z sections and other sections of approved make			

	1			
	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. Aluminimum sections shall be			
	smooth, rust free, straight, mitred			
	and jointed mechanically wherever			
	required including cleat angle,			
	Aluminimum 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.			
	Anodised aluminimum (anodised			
	transparent or dyed to required			
	shade according to IS: 1868,			
	Minimum anodic coating of grade			
	AC 15)			
34	Code No: 21.1.2.1			
	Providing and fixing aluminimum	30.00	Kg	
	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. Aluminimum sections shall be			
	smooth, rust free, straight, mitred			
	and jointed mechanically wherever			
	required including cleat angle,			
	Aluminimum 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 shutters of doors,			
	windows and ventilators including			
	providing and fixing hinges / pivots			
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	and making provision for fixing of			
	fittings wherever required including			
	the cost of PVC / neoprene gasket			
	required (fittings shall be paid for			
	separately) Anodised aluminimum			
	(anodised transparent or dyed to			
	required shade according to IS:			
	1868, minimum anodic coating of			
	grade AC15).			
35	Code No: 21.2.1			
33		20.00		
	Providing and fixing 9mm thick	20.00	Sqm	
	prelaminated particle board flat			
	pressed three layer or graded wood			
	particle board conforming to IS:			
	12823 grade 1 type II in panneling			
	fixed in aluminimum doors,			
	windows, shutters and partition			
	frames with C.P. brass / stainless			
	steel screws etc., complete as per			
	architectural drawings. Prelaminated			
	particle board with decorative			
	lamination on one side and			
	balancing lamination on other side.			
36	Code No: 9.84			
30	Providing and fixing IS:3564 make	2.00	Each	
	aluminium extruded section body	2.00	Each	
	tubular type universal hydraulic door			
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	closer with double speed adjustment			
	with necessary accessories and			
1	D(0) 1 1			
27	screws B60etc.complete			
37	Code No: 9.113			
37	Code No: 9.113 Providing and fixing bright finished	2.00	Each	
37	Code No: 9.113 Providing and fixing bright finished 100mm mortice lock with 6 levers	2.00	Each	
37	Code No: 9.113 Providing and fixing bright finished 100mm mortice lock with 6 levers without pair of handles for	2.00	Each	
37	Code No: 9.113 Providing and fixing bright finished 100mm mortice lock with 6 levers without pair of handles for aluminium door with necessary	2.00	Each	
37	Code No: 9.113 Providing and fixing bright finished 100mm mortice lock with 6 levers without pair of handles for	2.00	Each	
37	Code No: 9.113 Providing and fixing bright finished 100mm mortice lock with 6 levers without pair of handles for aluminium door with necessary	2.00	Each	
37	Code No: 9.113 Providing and fixing bright finished 100mm mortice lock with 6 levers without pair of handles for aluminium door with necessary screws etc complete (best make of	2.00	Each	
	Code No: 9.113 Providing and fixing bright finished 100mm mortice lock with 6 levers without pair of handles for aluminium door with necessary screws etc complete (best make of approved quality) Code No: 12.45.1		Each	
	Code No: 9.113 Providing and fixing bright finished 100mm mortice lock with 6 levers without pair of handles for aluminium door with necessary screws etc complete (best make of approved quality) Code No: 12.45.1 Providing and fixing at all height			
	Providing and fixing bright finished 100mm mortice lock with 6 levers without pair of handles for aluminium door with necessary screws etc complete (best make of approved quality) Code No: 12.45.1 Providing and fixing at all height false ceiling including providing and			
	Code No: 9.113 Providing and fixing bright finished 100mm mortice lock with 6 levers without pair of handles for aluminium door with necessary screws etc complete (best make of approved quality) Code No: 12.45.1 Providing and fixing at all height false ceiling including providing and fixing of frame work made of			
	Code No: 9.113 Providing and fixing bright finished 100mm mortice lock with 6 levers without pair of handles for aluminium door with necessary screws etc complete (best make of approved quality) Code No: 12.45.1 Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from			
	Code No: 9.113 Providing and fixing bright finished 100mm mortice lock with 6 levers without pair of handles for aluminium door with necessary screws etc complete (best make of approved quality) Code No: 12.45.1 Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in			
	Providing and fixing bright finished 100mm mortice lock with 6 levers without pair of handles for aluminium door with necessary screws etc complete (best make of approved quality) Code No: 12.45.1 Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of			
	Code No: 9.113 Providing and fixing bright finished 100mm mortice lock with 6 levers without pair of handles for aluminium door with necessary screws etc complete (best make of approved quality) Code No: 12.45.1 Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in			

25mm wide X 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to ceiling with dash fastener 12.5mm dia X 40mm long with 6mm dia bolts to the angle hangers of 25X25X0.55mm of required length, and other end of angle hanger being fixed with nut and bolts the G.I. channels to 45X15X0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick wedge of 80mm with bottom tappered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to channel with connecting clips made out of 2.64mm dia X 230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall / partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of taper ed and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitable fixed all complete as per drawing and specification but excluding the cost of painting with: 12.5mm thick tapered edge gypsym board conforming to IS: 2095 - part I, **Code No: 13.2.1**

39

	1.7	72.00		
	15 mm cement plaster on rough side	53.00	Sqm	
	of single or half brick wall of mix -			
	cement mortar 1:4 (1 cement : 4 fine			
	sand)			
40	Code No: 13.3.1			
	20mm cement plaster of mix 1:4	35.00	Sqm	
	(1cement : 4 fine sand)			
41	Code No: 13.60.1A			
	Wall painting with plastic emulsion	220.00	Sqm	
	paint - Royal of approved brand and			
	manufacture to give an even shade -			
	two or more coats on new work			
42	Code No: 12.41.2			
	Providing and fixing on wall face	30.00	Rmt	
	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, (i)			
	single socketed pipes. 110mm			
	diameter.			
43	Code No: 12.42.6.2			
73	Providing and fixing on wall face	1.00	Each	
	unplasticised- PVC moulded fittings	1.00	Lacii	
	/ 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			
4.4	shoe.			
44	Code No: 10.16.1	100.00	17	
	Steel work in built up tubular trusses	100.00	Kg	
	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.			
45	Code No: 12.70			
	Providing and fixing colour coated	15.00	Sqm	
	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			
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	thickness 0.5mm with required J or			
	C hook bolts and nets 8mm dia G.S			
	paint and working etc., complete			
	excluding the cost of purlin, rafter			
	and truss etc.,			
46	Code No: 13.61.1			
	Painting with synthetic enamel paint	10.00	Sqm	
	of approved brand and manufacture			
	to give an even shade - Two or more			
	coats on new work.			
47	Code No: 12.42.3.2			
	Providing and fixing on wall face	1.00	Each	
	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. Single Tee with door			
	110X110X110mm.			
48	Code No: 17.4.1			
40		1.00	Each	
	Providing and fixing white vitreous	1.00	Each	
	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.			
49	Code No: 18.53.1			
	Providing and fixing CP brass angle	5.00	Each	
	valve for basin mixer and geyser			
	points of approved quality			
	conforming to IS 8931 - 15 mm			
	nominal bore.			
50	Code No: 18.18.1.2			
	Providing and fixing ball valve	1.00	Each	
	(brass) of approved quality			
	complete. high or low pressure with			
	plastic floats - 20 mm nominal bore.			
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51	Code No: 21.3.2			
	Providing and fixing glazing in aluminimum door, window, ventilator shutters and partitions etc., with PVC / neoprene gasket etc., complete as per the architectural drawings. (cost of aluminimum snap beading shall be paid in basic item): With float glass panes of 5mm thickness.	12.00	Sqm	
52	Code No:5.18.2			
	jali 1:2:4 (1 cement :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 jambs, sills and soffits - 40mm thick.	1.50	Sqm	
53	Code No:5.12.1	2.00	1	
	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 m lead - Of area 3 sq. metres and below.	2.00	each	
	Total			

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

Contractor

Executive Engineer