

PONDICHERY UNIVERSITY
ENGINEERING WING

SCHEDULE OF WORK

Name of the work: Conversion of existing toilet for the purpose of using persons with disability at ground floor of DDE building.

S. No.	Description	Qty.	Rate Rs.P.	Unit	Amount Rs.P.
1. 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	2.00		Cum	
2. 15.2 3.1	Dismantling tile, work in floors and roofs/ dado laid in cement mortar including stacking material within 50 metres lead - for thickness of tiles 10mm to 25mm	57.00		Sqm	
3. 15.3	Demolishing R.C.C work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead	0.10		Cum	
4. 15.2. 1	Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead - nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	0.50		Cum	
5. 15.5 7	Dismantling aluminium / gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 metres lead.	26.00		Sqm	
6. 15.5 6	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	10.00		Sqm	
7. 14.8 2	Dismantling W.C.Pan of all sizes including disposal of dismantled materials i/c malba all complete	4		Each	
8. 18.8 2.2	Dismantling old C.I.pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks, including stacking	45.00		Rmt	

	of pipes at site lead upto 50 metre - 100 mm diameter C.I.pipe				
9. 14.7 5	Repair to plaster of thickness 12mm to 20mm in patches of area 2.5sqm and under including cutting the patch in proper shape , raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish , all complete	15.00		Sqm	
10. 14.4 3	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scarches etc.complete	70.00		Sqm	
11. 15.1 3.1	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50m lead - Of area 3 sq. metre and below.	8.00		Each	
12. 6.4.2	Brick work with common burnt clay F.P.S (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor five level in all shapes and sizes in - cement mortar 1:6 (1 cement : 6 coarse sand)	1.00		Cum	
13. 6.13. 1	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level - cement mortar 1:3 (1 cement : 3 coarse sand)	6.00		Sqm	
14. 6.15	Extra for providing and placing in position 2 nos 6mm dia M.S.bars at every third course of half brick masonry	6.00		Sqm	
15. 5.16	Providing, hoisting and fixing upto floor five level precast reinforced cement concrete in shelves including setting in cement mortar 1:3 (1 cement : 3 coarse sand) , cost of required centering , shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement , with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size)	0.10		Cum	

16. 13.5 0.3	Applying priming coat - with ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron / steel works	12.00		Sqm	
17. 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, fixing with dash fasteners of required dia and size, including necessary filling up the 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 / paneling , C.P.brass / stainless steel screws , all complete as per architectural drawings (Glazing, paneling and dash fasteners to be paid for separately) - for fixed portion - Powder coated aluminium (minimum thickness of powder coating 50 micron)	44.00		Kg	
18. 21.1. 2.2	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 shutters of doors, windows and ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket	55.00		Kg	

	required (fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)				
19. 21.3. 1	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc., with PVC / neoprene gasket etc., complete as per the architectural drawings. (cost of aluminium snap beading shall be paid in basic item) : With float glass panes of 4.0mm thickness.	25		Sqm	
20. MR	Providing and fixing “G” section for sliding door. The rate including screws, “G” section and sliding wheel etc. The rate including labours and materials etc., complete as direction by the Engineer – in-charge	2.00		Job	
21. 9.10 0.1	Providing and fixing aluminium 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	20.00		Each	
22. 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	18.00		Each	
23. 9.10 1.2	Providing and fixing aluminium hanging floordoor 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	8.00		Each	
24. 9.11 3	Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door , with necessary screws etc complete	3.00		Each	
25. 13.3. 2	20mm cement plaster of mix -1:6 (1 cement : 6 fine sand)	50.00		Sqm	

26. 13.4 3.1	Applying one coat of cement primer of approved brand and manufacture on wall surface - Cement primer	50.00		Sqm	
27. 14.5 4.1	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade - One or more coats on old work	12.00		Sqm	
28. 14.6 7.1	Finishing walls with premium acrylic smooth exterior paint with silicon additives of required shade - old work (two or more coats applied @ 1.43 ltr / 10 sqm) over existing cement paint surface	250.00		Sqm	
29. 17.3 1	Providing and fixing 600x450 mm beveled 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	6.00		Each	
30. 16.1 00	Acid cleaning for the existing Mosaic floors , glazed tiles work and removing the stains and decays to give a glassy look etc complte (The Acid used shall be 32% concentrated hydrochloric acid after taking on the precautionary measures)	80.00		Sqm	
31. 14.7 6	Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same.	8.00		Each	
32. 11.3 6A	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) , 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 with pigment of matching	25.00		Sqm	
33. 11.4 0.1	Providing and laying rectified ceramic rustic / matt finish floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer - minimum 10mm thickness) of 1st quality conforming to IS:15622 of	55.00		Sqm	

	approved make (Somany / Nitco) in all colours, shades, except white, ivory, grey, fume red brown, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc., complete				
34. 11.6 2	Providing and fixing PVC corner beading of required size to suit the thickness of the wall tile at the corner joints of dado works	10.00		Rmt	
35. 10.2 8	Providing and fixing stainless steel (grade 304) railing made of hollow tubes, channels, plates etc., including welding ,grinding. Buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complte. i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts,fasteners etc.,)	15.00		Kg	
36. 17.7. 1	Providing and fixing wash basin with C.I. brackets, 15mm C.P. brass pillar taps ,32 mm C.P.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 630x450 mm with a pair of 15 mm C.P.brass pillar taps	1.00		Each	
37. 17.7. 6	Providing and fixing wash basin with C.I. brackets, 15mm C.P. brass pillar taps ,32 mm C.P.brass waste of standard pattern, including painting of fittings and brackets ,cutting and making good the walls wherever required - white vitreous china anglet back wash basin size 400x400 mm with single 15mm C.P. brass pillar tap	1.00		Each	
38. 17.1. 1	Providing and fixing water closet squatting pan (Indian type W.C.pan) with 100 mm Sand Cast Iron P or S trap, 10 litre low level white P.V.C flusing cistren, including flush pipe , manually	2.00		Each	

	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.				
39. 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. flusing cistern, including flush pipe, 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	3.00		Each	
40. 9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564 , embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) , with double speed adjustment with necessary accessories and screws etc.complete	9.00		Each	
41. 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 M.S.screws of 65 / 100 mm size, complete as per manufacturer's specification	30.00		Rmt	
42. 9.12 0.2	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S.tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15 x15 mm for top & bottom rails. M.S.frame shall have a coat of steel primers of approved make	10.00		Sqm	

	and manufacture . M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top , bottom and lock rails shall be provided both side of the panel. 10mm (5 mm x 2) thick , 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail , panelling of 5 mm thick both side 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 & drawing - 30mm thick pre laminated PVC door shutters				
43. MR	Providing and fixing PVC trap, including cost of cutting and making good the walls and floors 100mm inlet and 100mm outlet etc. complete as per directed by the Engineer-in-charge.	12.00		Each	
44. 18.5 8.1.1	Providing and fixing PTMT grating of approved quality and colour - circular type - 100mm nominal dia	12.00		Each	
45. 17.6 9.1	Providing and fixing PTMT waste coupling for wash basin and sink, of approved quality and colour waste coupling 3.1mm of 79mm length and 62mm breadth weighing not less than 45 gm.	6.00		Each	
46. 18.6 3	Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 grams.	10.00		Each	

47. 18.5 6.1	Providing and fixing PTMT pillar cock of approved quality and colour 15mm nominal bore, 107mm long, weighing not less than 110 grams.	6.00		Each	
48. 17.2 8.2.1	Providing and fixing PVC waste pipe for sink or wash basin including PVC waste fittings complete - Flexible pipe - 32mm dia.	12.00		Each	
49. 18.2 1.2.1	Providing and fixing unplasticised PVC connection pipe with brass unions 45 cm length 15 mm nominal bore.	10.00		Each	
50. 9.10 1.2	Providing and fixing aluminium 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	20.00		Each	
51. 19.3 3.2	Providing and fixing on wall / column face unplasticised - 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	21.00		Rmt	
52. 19.3 3.2A	Providing and fixing on wall / column face unplasticised - PVC moulded fittings / accessories for unplasticised - PVC soil and waste pipes conforming to IS :14735 -1999 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - Single tee with door - 75x75x75mm	2.00		Each	
53. 19.3 3.2B	Providing and fixing on wall / column face unplasticised - PVC moulded fittings / accessories for unplasticised - PVC soil and waste pipes conforming to IS :14735 -1999 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - Single tee without door - 75x75x75mm	2.00		Each	
54. 19.3 3.2C	Providing and fixing on wall / column face unplasticised - PVC moulded fittings / accessories for unplasticised - PVC soil and waste pipes conforming to IS :14735 -1999 including jointing with seal ring conforming to IS : 5382	4.00		Each	

	leaving 10mm gap for thermal expansion - Bend 75 mm / Elbow 75mm				
55. 19.3 3.2F	Providing and fixing on wall / column face unplasticisd - PVC moulded fittings / accessories for unplasticisd - PVC soil and waste pipes conforming to IS :4985 - including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - Bend / Elbow with door 50 mm	2.00		Each	
56. 19.3 3.1	Providing and fixing on wall / 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 socked pipes - 110mm diametre	30.00		Rmt	
57. 19.3 3.1A	Providing and fixing on wall face / column face unplasticised - PVC moulded fittings / accessories for unplasticisd - PVC soil and waste pipes conforming to IS : 14735 -1999 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - Single tee with door - 110 x110x110 mm	4.00		Each	
58. 19.3 3.1B	Providing and fixing on wall face / column face unplasticised - PVC moulded fittings / accessories for unplasticisd - PVC soil and waste pipes conforming to IS:14735 - 1999 including jointing with seal ring conforming to IS :5382 leaving 10mm gap for thermal expansion - Single tee without door - 110 x110x110mm	4.00		Each	
59. 19.3 3.1C	Providing and fixing on wall face / column face unplasticised - PVC mould fittings / accessories for unplasticisd - PVC soil and waste pipes conforming to IS : 14735 - 1999 including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion - bend 110 mm/ Elbow 110mm	18.00		Each	
60. 32.4. 5.2	Providing and fixing square-mouth S.W. gully trap grade `A' complete with C.I. grating brick masonry chamber with bricks of class designation 35 and water	4.00		Each	

	tight C.I. cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.5 kg. and frame to be not less than 2.70 kg. as per standard design - 180 x 150 mm size P type.				
61.32.20	supplying and fixing C.I. cover 300 x 300 mm without frame for gully trap (standard pattern) the weight of the cover to be not less than 4.5 kg.	1.00		Each	
62.19.21.1	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete - For pipes 100 to 250 mm diameter	4.00		Each	
63.19.30.1.1	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I.cover with frame (light duty) 455 x 610 mm internal dimensions , total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15kg), 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 1:5:10 (1 cement : 5 fine sand : 10graded stone aggregate 40mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete extra complete as per standard design - inside dimensions 455 x610 mm and 45 cm deep for single pipe line - with common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2.00		Each	
64.18.9.11	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	6.00		Rmt	

	on wall) - 20mm nominal outer dia pipes				
65. 17.7 1	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms	1.00		Each	
66. 17.7 3.1	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour - 450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88mm, weighing not less than 170 gms	1.00		Each	
67. 17.7 8.1	Providing and fixing CP brass health faucet of approved quality - 15 mm nominal bore	1.00		Each	
68. 18.5 3.1	Providing and fixing C.P.brass angle valve for basin mixer and geyser points of approved quality conforming to IS: 8931- 15 mm nominal bore	1.00		Each	
	TOTAL				

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

Contractor

Executive Engineer(oc)