

PONDICHERY UNIVERSITY
ENGINEERING WING

SCHEDULE OF WORK

Name of the work: Annual maintenance and special repairs works at D-3,D-4, D-8,D-12,D-18,D-20,D-21,D-25,D-23 quarters and external painting at (D-17 to D-20) & (D-9 to D-12) block

S. No.	Description	Qty.	Rate Rs.P.	Unit	Amount Rs.P.
1. 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, 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	7		each	
2. 17.13.2	Providing and fixing white vitreous china water closet squatting pan (Indian type) - Orissa pattern W.C.pan of size 580x440mm	7		each	
3. 15.23..1	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead - for thickness of tiles 10mm to 25mm	30		sqm	
4. 11.38.2	Providing and laying ceramic glazed floor tiles of size 300 x 300 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 colours, 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	30		sqm	
5. 9.1.2P	Providing wood work in frames of doors , windows, clerestory windows and other frames , wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately) -Padak wood	0.40		cum	
6. 9.9.1.2 P	Providing and fixing glazed shutters for doors , windows and clerestory windows using 4 mm thick float glass panes including ISI marked M.S.pressed butt hinges bright finished	12		sqm	

	of required size with necessary screws - Padak wood - 30 mm thick				
7. 9.16.1.1 P	Providing and fixing 25 mm thick shutters for cup board etc - panelled or panelled & glazed shutters - Padak wood including ISI marked anodised aluminium butt hinges with necessary screws.	3		sqm	
8. 9.120.1	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 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 plain PVC door shutters	13		sqm	
9. 9.119	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	6		metre	

	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				
10. 18.54.1	Providing and fixing PTMT bib cock of approved quality and colour - 15mm nominal bore, 86 mm long , weighing not less than 88gms	14		each	
11. 18.63	Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms	10		each	
12. 9.53	Providing 40 X 5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embeddings in cement concrete block 30 x10 x 15 cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	30		each	
13. 17.31	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		each	
14. 17.18.1	Providing and fixing P.V.C.low level flushing cistern with manually controlled device (handle lever) conforming to IS:7231, with all fittings and fixtures complete - 10 litre capacity -white	7		each	
15. 17.10.2. 2	Providing and fixing Stainless steel AISI 304 (18/8) kitchen sink as per IS 13983 with C.I.brackets and stainless steel plug 40mm , including painting of fittings and brackets, cutting and making good the walls wherever required - kitchen sink without drain board - 610x460 mm bowl depth 200mm	7		each	
16. 9.21.2	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part 1) non - decorative type, core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters - 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	26		sqm	
17. 9.23	Extra for providing lipping with teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured)	26		sqm	
18.	Providing and fixing panelled or panelled and glazed shutters for doors,	3		sqm	

9.5.1.1 P	windows, and clerestory windows, including ISI marked M.S.pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately , all complete - Padak wood - 35 mm thick shutters				
19. 9.7.1P	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors , windows and clerestory windows (area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick - Padak wood	3		sqm	
20. 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	4		each	
21. MR	Replastering and finishing the damaged/ cutting portion of the alround window/ ventilator frame wall etc. complete as directed by the Engineer – in charge	10		Nos.	
22. 15.13.1	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead - of area 3 sqm and below	33		each	
23. 15.12.1	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	8		each	
24. 9.97.2	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 - 250 x10 mm	20		each	
25. 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 shade,with necessary screws etc, complete - 125 mm	47		each	
26. 9.96.2	Providing and fixing aluminium sliding door bolts , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed	15		each	

	to required colour or shade , with nuts and screws etc complete - 250 X 16 mm				
27. 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 - 150 x10 mm	16		each	
28. 9.97.5	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 - 100 x10 mm	15		each	
29. 9.114.1	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters , including fixing with necessary screws etc complete - Triple strip vertical type	4		each	
30. 9.67.1	Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc complste - 150 mm	3		each	
31. 9.101.2	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	19		each	
32. 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	70		metre	
33. 18.9.13	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) - 32mm nominal outer dia pipes	52		metre	
34. AR	Providing and fixing ASTM valve of approved quality – 32 mm dia	4		Each	
35. 12.41.2	Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS: 13592 Type A, including jointing with seal ring	40		metre	

	conforming to IS : 5382, leaving 10mm gap for thermal expansion, (i) Single socketed pipes – 110 mm diameter				
36. 12.43.2	Providing and fixing unplasticised – PVC pipe 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 brickwork and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc., complete – 110mm	40		each	
37. 2.35.4.1	Diluting and injecting chemical emulsion for POST – CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) – Treatment of existing masonry using chemical emulsion @ one litre per hole at 300mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole – with chlorpyriphos / lindane E.C. 20% with 1% concentration	60		metre	
38. 2.34.1	Supplying chemical emulsion in sealed containers including delivery as specified – Chlorpyriphos / lindane emulsifiable concentrate of 20%	10		litre	
39. 16.90	Polishing the existing mosaic floor with Power polisher to a high degree of polish as to be perfectly smooth	360		sqm	
40. 16.100	Acid cleaning for the existing Mosaic floors , glazed tiles work and removing the stains and decays to give a glassy look etc complete (The Acid used shall be 32% concentrated hydrochloric acid after taking on the precautionary measures)	240		sqm	
41. 14.43	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc.complete	4674		sqm	
42. 13.43.1	Applying one coat of water thinnable cement primer of approved brand and manufacturer on wall surface – water thinnable cement primer	2884		sqm	
43. AR	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade- two or more coats on old work.	2884		sqm	
44. 14.53.1	Wall painting with plastic emulsion Commercial – of approved brand and manufacture to give an even shade – One or more coats on old work	835		sqm	

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45. 13.50.1	Applying priming coat - with ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and soft wood)	103		sqm	
46. 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	103		sqm	
47. 14.54.1	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	909		sqm	
48. 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 : 4fine sand)	17		sqm	
49. 4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	18		cum	
50. 5.9.5	Centering and shuttering including strutting , propping etc and removal of form for - Lintels , beams , plinth beams , girders , bressumers and catilevers	16		sqm	
51. 13.1.2	12mm cement plaster of mix -1:6 (1 cement: 6 fine sand)	16		sqm	
52. 11.13.1	Providing and fixing glass strips in joints of terrazo / cement concrete floors - 40mm wide and 4mm thick	159		metre	
53. MR	Engagement of labour for cleaning the bushes, removing the unwanted plants around the quarters premises, including cleaning the terrace and disposal etc. complete as directed by the Engineer-in-charge	4		No.	
54. 15.42.2	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead - 100 mm dia pipe	40		metre	
55. 14.67.1	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	1790		sqm	
56.	Half brick masonry with bricks of class	7		sqm	

6.13.2	designation 7.5 in superstructure above plinth level upto floor V level in cement mortar 1:4 (1 cement : 4 coarse sand)				
57. 34.1.1	Providing two legged scaffolding using 15 cm diameter blue - gum posts or casurina posts or best quality bamboo - posts of 4m over all length (3.0m height + 0.5 m projection + 0.5 into the ground) the distance between the two rows being 1.25 m and the spacing of posts with 0.5 m overlap on either side and braces to step up and providing a platform with country wood planks of 40mm thick and 1m width etc in a complete form using coir and nails 1 m run (Rate of scaffolding for a height of 3 m and length of 1 m)	24		Rmt	
58. 34.1.2	Extra for Providing two legged scaffolding for every additional height of 2.5 m (Rate for scaffolding for a height of 3 m and length of 1m)	24		Rmt	
59. AR	Providing and fixing ASTM valve of approved quality – 25 mm dia	6		No.	
60. 18.74.2	Providing and fixing unplasticised P.V.C. connection pipe with PTMT nuts, collar, and bush of approved quality and colour - 15 mm nominal bore with 45cm length	15		each	
61. 9.27.2.2 .1P	Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws - 30mm thick shutters - with ISI marked Stainless steel butt hinges of required size - Padak wood	4		sqm	
62. 18.64	Providing and fixing PTMT swivelling shower, 15mm nominal bore, weighing not less than 40 gms	3		each	
63. 14.29	Providing and fixing M.S.round or square bars with M.S.flats at required spacing in wooden frames of windows and clerestory windows	36		kg	
64. AR	Applying classic acryflex WMC (Terracotta acrylic water proofing paint) on two coat over the pressed clay tile roof including preparation of surface etc. It is applied at a usage of 0.50 Kg/m ² per coat. The second coat is applied 4 to 6 hours after the first coat etc. complete as directed by the Engineer-in-charge	221		Sqm	

65. 14.6.1B	Renewing glass panes, with wooden fillets wherever necessary - Float glass panes of thickness 4mm	4		sqm	
66. 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	1		cum	
67. 13.26A	Providing and applying ready mixed wall putty (JK / Birla) of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	9		sqm	
68. 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	4		each	
69. AR	Providing and fixing cudapah slab of 25 mm thick and fixing inside of cupboard wall, making cutting/ grooving on the wall including pointing with cement mortar etc complete	3		sqm	
70. 14.35.5	Providing and fixing finished brass hard drawn hooks and eyes -100mm	18		each	
71. AR	Providing and fixing PVC trap, including cost of cutting and making good the walls and floors 100 mm dia inlet and 100 mm outlet etc complete	2		No.	
72. 18.77	Cutting holes upto 15x15 cm in R.C.C floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc with cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size)including finishing complete so as to make it leak proof	14		each	
	Total				

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

Contractor

Executive Engineer(oc)