

PONDICHERRY UNIVERSITY
ENGINEERING WING

SCHEDULE OF WORK

Name of Work: Replacement of external water supply pipelines and special repairs to toilets at CV Raman gents hostel Pondicherry University

Sl. no	Description	Qty	Rate	Unit	Amount
1 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	550.00		Meter	
2 18.9.14	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) - 40mm nominal outer dia pipes	155.00		Meter	
3 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	220.00		Meter	
4 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	340.00		Meter	
5 18.17.5	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (Screwed end) - 65mm nominal bore	18.00		Each	
6 18.17.4	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (Screwed end) - 50 mm nominal bore	2.00		Each	
7 18.55.3	Providing and fixing PTMT stop cock of approved quality and colour – Concealed stop cock , 15mm nominal	48.00		Each	

	bore, 108 mm long, weighing not less than 108 gms				
8 18.64	Providing and fixing PTMT swivelling shower, 15mm nominal bore, weighing not less than 40 gms	48.00		Each	
9 18.56.1	Providing and fixing PTMT pillar cock of approved quality and colour - 15 mm nominal bore , 107 mm long, weighing not less than 110 gms	10.00		Each	
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	25.00		Each	
11 18.63	Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms	40.00		Each	
12 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	50.00		Each	
13 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	20.00		Each	
14 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	38.00		Each	
15 15.44.1	Dismantling G.I.pipes (external work) including excavation and refilling trenches after taking out the pipes, manually / by mechanical means including stacking of pipes within 50 metres lead- 15mm to 40mm	400.00		Meter	
16 15.44.2	Dismantling G.I.pipes (external work) including excavation and refilling trenches after taking out the pipes, manually / by mechanical means including stacking of pipes within 50 metres lead- above 40mm nominal bore	550.00		Meter	
17 14.72	Providing and fixing double scaffolding system (cup lock type) on the exterior side, upto seven story height made with 40mm dia M.S. tube 1.5m centre to centre horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it is a serviceable condition for the required duration as approved and removing it thereafter.	80.00		Sqm	

	The scaffolding system shall be stiffened with bracings, runners, connection with the building etc. wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as approved.the elevational area of the scaffolding, shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding. (To be used for maintenance work judicially necessary deduction for scaffolding in the existing item to be done)				
18 2.34.1	Supplying chemical emulsion in sealed containers including delivery as specified - Chlorpyriphos / lindane emulsifiable concentrate of 20%	480.00		Lts	
19 2.35.2.1	Diluting and injecting chemical emulsion for POST - CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) - along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. - with chlorpyriphos/lindane E.C.20% with 1% concentration.	520.00		Meter	
20 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	1320.00		Meter	
21 2.35.5	Diluting and injecting chemical emulsion \ for POST - CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) - treatment at points of contact of wood work by chemical emulsionChlorpyriphos / Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6mm dia holes at downward angle of 45 degree at 150mm centre to centre and sealing the same	510.00		Meter	
22 14.78	Cleaning of under ground sump , Over Head R.C.C. tank (independent staging) includingdisposal of slit and rubbish .	175.00		Sqm	

	The cleaning shall consist following operations: i) Tank shall emptied of water by pumping and bottom shall be cleaned of slit and other deposits. Ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. Iii) Chlorination of RCC internal surface by liquid Chlorine.iv) the treated surface shall be dried using air jetting and all loose particles shall be removal from the surface.v)Finally the surface shall be treated with ultraviolet radition etc.				
23 9.119	Providing and fixing factory made 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,EPDM rubber gasket weather seal to be provided throughout the frame.The door frame to be fixed to the wall using M.S.screws of 65/100mm size complete as per manufacturers specification	35.00		Meter	
24 9.120.1	Providing and fixing to existing door frames - 30mm thick factory made solid panel PVC door shutter consisting of frame made out of M.S.tubes of 19 gauge thickness and size of 19mm x 19mm for stiles, top & 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 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	11.00		Sqm	

	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 manufactures specification & drawing.				
25 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)	50.00		Sqm	
26 15.12.1	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	
27 9.100.3	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:-75mm	14.00		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 : - 100x10mm	14.00		Each	
29 11.37.2	Providing and laying ceramic glazed tiles of size 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 colours such as 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 pigment etc., complete	4.00		Sqm	
30 14.80.2	Providing & fixing white vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material i/c malba , all	2.00		Each	

	complete - Orissa pattern W.C.Pan of size 580x440 mm				
31 17.2.1	Providing and fixing white vitreous 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	5.00		Each	
32 17.78.1	Providing and fixing CP brass health faucet of approved quality - 15 mm nominal bore	5.00		Each	
33 17.23	Providing and fixing white vitreous china flat back or wall corner type lipped front turinal basin of 430x260x350mm or 340x410x265mm sizes respectively	2.00		Each	
34 14.5.2	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty - Float glass panes of thickness 5.5mm	90.00		Sqm	
35 MR	Providing and laying water proofing for the damaged floor trap including dismantling in floor all-round the floor trap area by mechanical menace/manual, Clean the surface using wire brush to remove fungus sticking on the surface. Remove the laitance and plaster residues with a chisel & hammer and repair any broken structure with civil work. Preparing water proofing compound mixed slurry with cement ,FSOROC Nitrobond SBR/ PRIMODON classic Crete SBR or equivalent and FSOROC CEBEK 100 / PRIMODON classic grout admix or equivalent as specified by the manufacturer (1 litter water : 3kg cement :1 litter FSOROC Nitrbond SBR/PRIMODON classic Crete SBR:100 gm cebex100/ classic grout admix).Applying the waterproofing cement slurry over and all-round the trap surface and vertical cut portion of roof slab and this layer will be allowed to air cure for 6 hours followed with water curing for 12 hours , then pit around the trap shall be filled with cement concrete 1:1 ½ :3 mixed with water proofing compound of 1 litter FSOROC Nitrobond SBR/ PRIMODON classic Crete SBR or equivalent 100 gms of CEBEK 100 / PRIMODON	136.00		Each	

	CLASSIC GROUT ADMIX or equivalent ,50 kg of cement and finish neatly. The floor trap has to be fixed with new Stainless steel grating of size 125 mm X 125 mm. the rate inclusive of all materials, labour charges, hire charges of tools and plants etc complete				
36 9.1.2V	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) -Vengai wood	0.05		Cum	
	TOTAL				

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

Contractor

Executive Engineer(oc)