

<b>Client: National Law School of India University, Bangalore</b>					
<b>Project: Proposed Civil Works at Ground Floor, Yamuna Hostel Block, NLSIU</b>					
<b>Description: Plumbing Works BOQ</b>					
<b>Architects: Iris Global</b>					
<b>SL.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>AMOUNT</b>
<b>PART A: SANITARY FIXTURES AND CP FITTINGS:</b>					
1	Supplying, fixing, testing and commissioning of glazed white colour Vitreous China <b>Wall Mounted Water Closet</b> with CP bolts / nuts and PVC <b>flush tank</b> , solid plastic seat and lid with heavy duty CP hinges and rubber buffers and flap etc. The work shall include cutting making of walls and floors, consumables like brass screws, wooden plugs, white cement etc., Only drilling machines shall be used for making the holes in the walls for fixing, no wall jumper and hammer will be allowed. Make: Parryware/Hindware	Nos.	RO		
	Rate in words:				
2	Supplying, fixing, testing and commissioning of white colour, vitreous china <b>counter top wash basin</b> installed with granite counter and brackets, CP 15mm Basin mixer, 15mm dia - 450mm long CP connection pipe, two no 15mm dia CP angle stop cock with wall flange, 32 mm dia CP waste coupling, 32 mm dia CP brass bottle trap, The works shall include cutting and making good the walls & floors. (Counter cost for wash basin not to be considered). Notes: Conditions mentioned in item no.1 shall be applicable. Make: Parryware/ Hindware	Nos.	RO		
	Rate in words:				
3	Same as item (2) above, but only for Removal & re-fixing of washbasin along with existing CP fixtures, complete.	Nos	3		
	Rate in words:				
5	Collecting, fixing, testing and commissioning of shower assembly unit consisting of one no. <b>Two in One wall mixer</b> , one no. spout, one no. CP brass over head Shower arrangements with shower arm & spout including cutting, chasing & making good the walls. Make: Jaquar Continental series	Nos.	3		
	Rate in words:				

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5	Supplying & fixing of CP <b>health faucet</b> consisting of:				
	CP angle stop cock with wall flange.				
	PVC flexible tube.				
	Hand operated spray unit (instant type)	Nos.	RO		
	Rate in words:				
6	Supplying & fixing of 600mm long superior quality CP <b>towel rack</b> with bracket of approved type and design, including cutting and making good the walls. Make: Jaquar	Nos.	3		
	Rate in words:				
7	Supplying and fixing of stainless steel <b>soap dish</b> including cutting and setting in walls with cement joints and making good the wall. (For shower area). Make: Jaquar	Nos.	3		
	Rate in words:				
8	Supplying and fixing of CP brass superior quality <b>Robe Hook</b> with flange and screws etc., including cutting and making good the walls. Make: Jaquar	Nos.	3		
	Rate in words:				
9	Supplying and fixing of 20mm dia <b>CP concealed stop cock</b> with wall flange. Make: Jaquar	Nos.	2		
	Rate in words:				
10	Supplying, Fixing and commissioning of electrically operated storage water heater inner container made from copper or stainless steel including the ream installation safety valve, vacuum relief valve, neon lamp, mounting brackets, installing in position with coach screws or bolts, nuts, testing, commissioning, etc., Make: Racold/ AO Smith				
	Cap:25Liters	Nos.	RO		
	Rate in words:				
<b>PART B : CPVC PIPES AND FITNGS (INTERNAL WATERSUPPLY):</b>					

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1	Providing and Fixing of <b>CPVC pipes</b> confirming to ASTM standard including all CPVC fittings like tees, elbows, bends, unions, coupling, reducer tees, collars etc. The work shall include cutting jointing with solvent cement pressure testing the joints / pipeline for 10 kg/sq.cm hydraulic pressure, for 2 hours etc. making holes, including chasing in solid block masonry walls with groove cutting machine to required width and depth, making bores in walls, making good the walls and bores in CC or CM 1:3 as applicable clearing the debris, MS hooks for fixing pipes and making good the walls and floors.				
	<b>Notes:</b> Rate Quoted shall be inclusive of cost of other consumables like hacksaw blade, solvent as per pipe manufactures up to 50 mm dia etc.				
	<b>INTERNAL (CONCEALED IN WALL):</b>				
	<b>HOT AND COLD WATERSUPPLY</b>				
a	15 mm dia (SDR-11)	Mtr.	15		
	Rate in words:				
b	20 mm dia (SDR-11)	Mtr.	45		
	Rate in words:				
c	25 mm dia (SDR-11)	Mtr.	RO		
	Rate in words:				
2	Providing and fixing of <b>CPVC ball valves</b> with knob operated and tested to 20kg / sq.cm.				
a	20 mm dia	Nos.	2		
	Rate in words:				
b	25 mm dia	Nos.	RO		
	Rate in words:				

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3	Providing and Fixing of elastomeric insulation for concealed <b>hot water CPVC pipes running in toilets with VIDOFLEX 6 mm thick</b> preformed tubings wrapped all round. All joints shall be sealed with POLYBOND V9 adhesive, followed by application of self adhesive black cotton tape PCS 2250, on both longitudinal & circumferential joints to give uniform appearance and finish etc., complete.				
	<b>INTERNAL (CONCEALED IN WALL):</b>				
a	15 mm dia	Mtr	15		
	Rate in words:				
b	20 mm dia	Mtr	15		
	Rate in words:				
<b>PART – C: PVC SOIL,WASTE,VENT PIPES AND FITTINGS ( INTERNAL )</b>					
1	Providing, fixing, testing and commissioning of PVC soil, waste and vent pipe confirming to IS 13592 of SWR quality 6 kg / sq.cm pressure rated self fit type with socket and solvent cement joint including all fittings, like Bends, Tees, Elbows, Collars, junction, offsets, access pipes, jointing with solvent cement followed by application of leak proof adhesive like FRP paste & laid on floors inside the toilets to the required slope including making necessary bores in masonry walls as applicable, making good the bores with CM 1:3 or cement concrete 1:2:4 as applicable, curing etc., complete.				
	<b>Notes:</b> Rate Quoted shall be inclusive of cost of cement, sand and other consumables like hacksaw blade etc.				
	<b>INTERNAL:</b>				
a	75mm dia (6kg / sq.cm Pr.Rated)	Mtr.	15		
	Rate in words:				
b	110mm dia (6kg / sq.cm Pr.Rated)	Mtr.	15		
	Rate in words:				
c	160mm dia (6kg / sq.cm Pr.Rated)	Mtr.	05		
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2	Providing, fixing, testing and commissioning of <b>PVC multi inlet floor trap</b> of self cleansing design moulded or fabricated, if not available in size of self cleansing design with or without vent arm complete including cutting and making good the walls and floors.				
a	110mm dia inlet 75mm dia out let	Nos.	5		
	Rate in words:				
3	Providing and fixing <b>CP cockroach trap grating</b> of 6mm thick with rim including setting in floor with white cement mortar and making good the floor (Chilli Make).				
a	125mm dia	Nos.	5		
	Rate in words:				
4	Providing and fixing testing and commissioning of <b>PVC waste pipe</b> of agricultural series conforming to IS 4985 including all fittings like tees, elbows, bends, collars, coupling, etc. jointing with rubber ring / solvent cement followed by application of leak proof adhesive like FRP paste laid on floors inside the toilets to the required slope including making necessary bores in walls / foundations / concrete slab as applicable, making good the bores with CM 1:3 or cement concrete as applicable, curing etc., complete.				
	Wall chasing shall be done with chasing machine to required lines and levels.				
a	40 mm dia (15kg / sq.cm Pr. Rated)	Mtr	15		
	Rate in words:				

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5	Construction of <b>PVC gully trap</b> (ISI brand only) of 150 x 150 mm size with 100 mm dia outlet making excavation pit in all kinds of soil excluding soft rock and hard rock to a size of 600 x 600 mm and laying of 100 mm thick 1:4:8 mix cement concrete bed and constructing chamber with internal clear dimension of 300 x 300 mm using brick work 115 mm thick in cement mortar 1:6 up to a height of 300 mm above gully trap or up to 100 mm above paving level, plastering internal and external surface with cement mortar 1:4 to 15mm thick finishing to smooth inside surface with necessary benching and channelling providing 150 x 150 mm size cast iron grating, including 40 mm thick precast ready made light duty RCC cover slab, clearing the surplus material, earth etc. complete.				
	Rate Quoted shall be inclusive of cost of cement, sand and other consumables etc.				
a	300mm x 300mm size 'P/S' trap	Nos.	1		
Rate in words:					
6	Construction of brick masonry <b>inspection chambers</b> of internal clear dimension as mentioned below by using first class table moulded modular bricks 230 mm thick wall in cement mortar joints in 1:4, over CC 1:4:8 bed 150 mm thick including providing precast RCC top slab in 1:2:4 Mix (1 cement: 2 coarse coarse sand: 8 graded stone aggregate), with angle iron frame, inside plastering 15mm thick with CM 1:3 (1 cement::3 fine sand) finished very smooth with floating coat of neat cement & making benching and channelling in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) neatly finished complete as per standard design and as per drawing and specifications. (The rate shall include necessary earth work excavation in all types of soil excluding soft and hard rock, back filling including consolidation disposing the excess earth to all leads curing, finishing etc., complete).				
	(The rate shall include earth work excavation and back filling)				

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a	Inside size of 450 x 450mm & depth not exceeding 600 x 600mm including providing 450 x 450mm RCC cover with MS L angle frame.	Nos.	RO		
	Rate in words:				
b	Inside size of 600 x 600mm & depth not exceeding 900mm including providing 600 x 600mm RCC cover.	Nos.	RO		
	Rate in words:				
	<b>Total for Plumbing Works</b>				
	<b>Amount in words:</b>				