

BILL OF QUANTITIES

	Tender Inviting Authority: Secretary, Centre for Heritage, Environment and Development (c-hed)					
	Work Name: c-hed/46/2024 dtd 14/05/2025: CONSTRUCTION OF PUBLIC TOILETS AT 2 LOCATIONS IN FORT KOCHI					
	Name of the Bidder/ Bidding Firm /Company:.....					
	Price Schedule					
	This BoQ template must not be modified/replaced by the bidder and the same should be submitted after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the bidder					
SL NO	DSR	SPECIFICATION	Quantity (For two toilet)	Unit	RATE PER UNIT	TOTAL AMOUNT Without taxes in Rs.
1	2.8.1	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	32.218	cum		
2	4.1.8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)	4.285	cum		

3	5.1.2	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level: 1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size	4.494	cum		
4	5.9.1	Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete	18.56	sqm		
5	5.22B.1	Steel reinforcement for R.C.C. work ready to use "cut and bend" rebars of approved make from factory/workshop to construction site including placing in position and binding all complete upto plinth level Thermo-Mechanically Treated bars of grade Fe-500D or more.	1.5878	quintal		
6	50.6.2.1	Solid block masonry using pre cast solid blocks (Factory made) of size 30x20x15 cm or nearest available size confirming to IS 2185 part I of 1979 for foundation and plinth with thickness 15cm in: CM 1:6 (1 cement :6 coarse sand) etc complete	32.0136	cum		
7	5.3	Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 150 landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (Zone III) : 3 graded stone aggregate 20 mm nominal size).	3.43116	cum		
8	5.9.3	Centering and shuttering including strutting, etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform	25.4544	sqm		

9	5.22A.6	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo - Mechanically Treated bars of grade Fe-500D or more	421.8	kg		
10	50.2.25.1	Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge	17.6	cum		
11	11.3.1	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate)finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	37.7856	sqm		
12	13.8.1	15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix: 13.8.1 1:3 (1 Cement : 3 fine sand)	203.196	sqm		
13	13.43.1	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface: Water thinnable cement primer	245.1288	sqm		
14	13.8	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	245.1288	sqm		

15	13.47.1	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	137.2808	sqm		
16	22.23.2	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer in- charge. The product performance shall carry guarantee for 10 years against any leakage. For horizontal surface one coat @1.10 kg per sqm.	41.9328	sqm		

17	11.47.2	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS : 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). Size of Tile 600x600 mm	96.612	sqm		
18	11.48.2	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg). including filling /grouting and finishing complete as per direction of Engineer-in-charge. Size of Tile 600x600 mm	107.952	sqm		
19	11.41.2	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4(1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600 x 600 mm.	35.9008	sqm		
20	11.5	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles	-30.7008	sqm		
21	11.48.2	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg). including filling /grouting and finishing complete as per direction of Engineer-in-charge. Size of Tile 600x600 mm	30.7008	sqm		

22	17.7.11	Providing and fixing wash basin with C.I. brackets, 15 mm 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 require: Stainless Steel AISI - 304 (18/8) Wash basin 530 x 345 mm with single 15mm C.P. brass pillar tap	4	each		
23	50.18.9.15.1	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 40 mm dia 10Kgf/cm ² - External work- Exposed on wall	70	metre		
24	9.121	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross- section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminated shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	10.4	metre		
25	9.122.2	Providing and fixing to existing door frames. 30 mm thick Fiberglass Reinforced Plastic (F.R.P) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF) / Polystyrene foam to be used all filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS : 14856, complete as per direction of Engineer-in-charge.	12.6	sqm		

26	17.3.1	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid	6	each		
27	50.17.1.5	Supplying and fixing CP Health Faucet superior quality (Jagur or equivalent make) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.	6	no		
28	18.58.2.1	Providing and fixing PTMT grating of approved quality and colour. Rectangular type with openable circular lid 150 mm nominal size square 100 mm diameter of the inner hinged round grating	6	each		
29	18.50.1	Providing and fixing C.P brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms. 15 mm nominal bore	4	each		
30	50.18.9.9.1	Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of Joints complete as per direction of engineer in charge.110 mm dia 6Kgf/cm2	60	metre		

31		OD261459/2023-2024 Providing and fixing Aluminium profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.460 mm or nearest available thickness. The sheet shall be fixed using self drilling/self tapping screws of size (5.5x55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. OD71/21-22 (Approved data vide CE circular dated 18.08.2016)	65.52	sqm		
32		OD261460/2023-2024 (MD 12.51.1) Providing and fixing precoated Aluminium sheet roofing accessories 0.50 mm (+ 0.05%) total coated thickness, using self drilling/self tapping screws complete: Ridges plain (500-600 mm) OD 70/21-22 Modified DAR 12.51.1	36	sqm		
33	10.16.1	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes	600	kg		
34	6.23	Honey-comb brick work 10/11.4 cm thick with common burnt clay bricks of class designation 7.5 in super structure above plinth level upto floor V level with cement mortar 1:4 (1 cement : 4 coarse sand).	10.4	sqm		
35	13.52.1	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On steel work	70	sqm		

36	10.28	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 complete, 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 as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	80	kg		
37	50.9.15.1	Supplying and fixing 200 mm Aluminium aldrop	6	Each		
38	MR	Supply and installation of Philips Stellar Bright LED T-Bulb	14	Each		
39	MR	Supply and installation of Orient 9.84 inch Exhaust Fan	6	Each		
40	MR	highly durable and impact resistant septic tank - 2000 l pvc	2	Each		
41	MR	Supply and installation of overhead water tank - 2000 l sintex	2	Each		
42	MR	SINTEX UNDERGROUND WATER TANKS SUMPS, 3000 litres	2	Each		
43		Electrical work - wiring, mcb, conduits and clamps, switches and boards, earthing and 1 Hp water pump. - all works complete (exposed on wall)	2	set		
		Total in figures (WITHOUT GST)				
		Quoted rate in words (WITHOUT GST)				
		TOTAL AMOUNT IN FIGURES INCLUDING 18% PROVISION FOR GST				

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