

CONSTRUCTION OF SDF IN COCHIN SEZ					
PROVIDING INTERNAL WATER SUPPLY, EXTERNAL DRAINAGE AND WATER SUPPLY & SANITARY					
SI No	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
	CP & SANITARY FIXTURES				
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	Nos	12		-
2	Providing and fixing hand shower (Health Faucet) with 6mm dia, 1m long PVC tube and wall hook all complete Jaquar cat no 563 or approved equivalent. Make: Jaquar/equivalent	Nos	12		-
3	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore	Nos	12		-
4	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: White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	Nos	12		-
5	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	Nos	12		-
6	Providing and fixing toilet paper holder : C.P. brass	Nos	12		-
7	Providing and fixing in position best quality approved Indian coat hooks with flanges fixed to wall/door shutter etc. with necessary screws, washers and plugs all as specified and directed (Jaquar Cat. No. 1161 or approved equivalent).	Nos	24		-
8	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15mm nominal bore	Nos	36		-

SI No	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
9	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required : Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	Nos	12		-
10	Providing and fixing Grab bar left 90 degree angle for disabled toilets Near EWC Make: Jaquar/ Equivalent.	Nos	4		-
11	Providing and fixing Grab bar for disabled toilets Make: Jaquar/ Equivalent.	Nos	4		-
12	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Nos	12		-
	DRAINAGE				-
13	Providing and laying uPVC pipes of class III (6 kg/cm ²) as per IS:4985 and as per specification with rubber ring with socket and spigot joint,(EPDM/SBR) in trenches for all depths including well graded granular bedding (Type-E) for pipe length as per drawing and specification including hydraulic field testing and commissioning etc complete as directed by Engineer. Note : Earthwork will be measured and paid separately.				-
a	75 mm dia	Mtr	609		-
b	110 mm dia	Mtr	124		-
14	Providing and fixing PVC 10kg/cm ² pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge- Shaft/External Exposed work Make:Supreme/Ashirvad/equivalent				-
a	160mm dia	Mtr	180		-
b	110mm dia	Mtr	180		-

SI No	DESCRIPTION	UNIT	QTY	RATE (Rs.)	AMOUNT (Rs.)
15	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : 150 mm dia	Mtr	138		-
16	Providing and fixing UPVC trap ('P' or 'S') of self cleaning design with C.P. grating with or without vent horn complete, as shown in detailed drawing including inlet fitting wherever required including cost of cutting and making good the walls & floors. 110 mm inlet and 110 mm outlet	Nos	34		-
17	Providing and fixing UPVC gully trap complete with grating and brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design : 160 x 110mm size	Nos	6.00		-
18	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				-
19	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	mtr	200		-
20	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design :150 mm diameter S.W. pipe	Mtr	150		-

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21	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone- III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone- III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 ggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Nos	9		-
	INTERNAL AND EXTERNAL WATER SUPPLY				-
22	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				-
a	20mm dia	Mtr	15		-
b	25mm dia	Mtr	15		-
c	40mm dia	Mtr	70		-
d	50mm dia	Mtr	350		-
23	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				-
a	25mm	Nos	12		-
b	50mm	Nos	12		-
c	40mm	Nos	12		-
24	Providing and fixing gun metal non- return valve of approved quality (screwed end) : 50 mm nominal bore	Nos	3		-

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25	Providing and fixing C.I. Sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) : 100 mm diameter	Nos	2		-
26	Providing and fixing brass stop cock of approved quality :				-
a	75mm	Nos	12		-
b	50mm	Nos	12		-
c	40mm	Nos	12		-
27	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				-
a	75 mm nominal bore	Nos	12		-
b	50 mm nominal bore	Nos	12		-
c	40 mm nominal bore	Nos	12		-
28	Cutting holes up to 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.	Nos	50		-
TOTAL					-