

<b>CHAPTER - 15 : SANITARY INSTALLATIONS</b>				
<b>Item No.</b>	<b>Description Of Item</b>	<b>Unit</b>	<b>Rate (Rs.)</b>	<b>Cement Qty.(qtl.)</b>
151010	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast iron P or S trap, 10litre low level white P.V.C. flushing cistern 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			
151011	White Vitreous China Orissa pattern W.C. pan of size 580x440-mm with integral type foot rests	Each	2687.46	0.050
151012	Stainless Steel AISI- 304 (18/8) Orissa pattern W.C. pan of size 585x480 mm with integrated type foot rests	Each	6604.62	0.050
151020	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10litre low level white, P.V.C. flushing cistern 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			
151021	W.C. pan with ISI marked white solid plastic seat and lid	Each	2570.15	0.002
151022	W.C. pan with ISI marked black solid plastic seat and lid	Each	2529.50	0.002
151030	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10litre low level white vitreous china flushing cistern and C.P flush bend with fittings & C.I./ M.S. brackets, 40mm 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			
151031	W.C. pan with ISI marked white solid plastic seat and lid.	Each	3688.59	0.002
151032	W.C. pan with ISI marked black solid plastic seat and lid.	Each	3647.94	0.002
151040	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern , with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required			
151041	One urinal basin with 5litre white P.V.C. automatic flushing cistern	Each	2386.80	0.025

Item No.	Description Of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
151042	Range of two urinal basins with 10 litre white P.V.C. automatic flushing cistern	Each	4175.16	0.040
151043	Range of three urinal basins with 10litre white P.V.C. automatic flushing cistern	Each	5405.67	0.067
151044	Range of four urinal basins with 15 litre white P.V.C. automatic flushing cistern	Each	7144.63	0.095
151050	Providing and fixing white, vitreous china flat back half stall urinal of 580x380x350mm with white P.V.C. 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 coupling in C.P. brass including painting of fittings and cutting and making good the walls and floors wherever required			
151051	Single half stall urinal with 5litre P.V.C. automatic flushing cistern	Each	4132.23	0.051
151052	Range of two half stall urinals with 5litre P.V.C. automatic flushing cistern	Each	6412.39	0.102
151053	Range of three half stall urinals with 10litre P.V.C. automatic flushing cistern	Each	8938.40	0.153
151054	Range of four half stall urinals with 10litre P.V.C. automatic flushing cistern	Each	10902.28	0.203
151060	Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white, P.V.C. automatic flushing cistern, with fittings, standard size G.I. flush pipe for back and front flush with standard spreader pipes with fittings, G.I. clamps and C.P. brass coupling complete including painting of fittings and cutting and making good the walls and floors etc. wherever required			
151061	Single squatting plate of 600x350 mm size with 5 litre P.V.C. automatic flushing cistern	Each	3462.24	0.051
151062	Range of two squatting plates with 5litre P.V.C. automatic flushing cistern	Each	4937.28	0.102
151063	Range of three squatting plates with 10litre P.V.C. automatic flushing cistern	Each	6473.89	0.153
151064	Range of four squatting plates with 10litre P.V.C. automatic flushing cistern	Each	7667.51	0.203
151070	Providing and fixing wash basin with C.I./ M.S. brackets, 15mm C.P. brass pillar taps, 32mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required			
151071	white, vitreous china wash basin size 630x450mm with a pair of 15mm C.P. brass pillar taps	Each	1736.27	0.015
151072	white vitreous china wash basin size 630x450mm with a single 15mm C.P. brass pillar taps	Each	1500.37	0.015
151073	white vitreous china wash basin size 550x400mm with a pair of 15mm C.P. brass pillar taps	Each	1489.45	0.015

Item No.	Description Of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
151074	white vitreous china flat back wash basin size 550x400mm with single 15mm C.P. brass pillar tap	Each	1253.55	0.015
151075	white vitreous china angle back wash basin size 600x480mm with single 15mm C.P. brass pillar tap	Each	1507.63	0.015
151076	white vitreous china angle back wash basin size 400x400mm with single 15mm C.P. brass pillar tap	Each	1227.42	0.015
151077	white, vitreous china flat back wash basin size 450x300mm with single 15mm C.P. brass pillar tap	Each	1224.52	0.015
151078	white, vitreous china surgeon type wash basin of size 660x460mm with a pair of 15mm C.P. brass pillar taps with elbow operated levers	Each	2743.87	0.015
151079	white, vitreous china flat back wash basin size 520x520 mm corner type with single 15mm C.P. brass pillar tap	Each	1398.74	0.015
151080	Providing and fixing special type wash basin with C.I./ M.S. brackets, 15mm C.P. brass pillar taps, 32mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required			0.015
151081	White, vitreous china Surgeon type wash basin of size 660x460mm with single 15mm C.P. brass pillar taps with elbow operated levers ISI marked	Each	2229.21	0.015
151082	Stainless Steel AISI- 304 (18/8) Round basin 405x355mm with single 15mm C.P. brass pillar tap	Each	2763.50	0.015
151083	Stainless Steel AISI- 304 (18/8) wash basin 530x345mm with single 15mm C.P. brass pillar tap	Each	2531.20	0.015
151090	EXTRA for :			
151091	Providing 32mm dia. C.P. brass trap	Each	197.46	
151092	Providing 32mm dia. C.P. brass union	Each	102.60	
151100	Supplying and fixing white vitreous china circular wash basin category No. 1004 group I, size 470 mm. dia with CP brass pillar tap, 32 mm. rubber plug and CP brass chain, 32 mm. CP brass waste of standard pattern connected with GI waste pipe upto floor level and 32 mm. dia CP brass trap and unions complete including cutting and making good the walls etc. as a complete job	Each	1560.63	0.015
151110	Providing and fixing white, vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings	Each	971.52	0.010
151120	Providing and fixing white, vitreous china water closet squatting pan (Indian type)			
151121	Long pattern W.C. pan of size 580mm	Each	687.07	0.051
151122	Orissa pattern W.C. pan of size 580x440mm	Each	1189.41	0.051
151130	Extra for using coloured W.C. pan instead of white, W.C. pan			
151131	Orissa pattern W.C. pan 580x440mm or of any other size	Each	405.56	
151132	Long pan pattern W.C. pan	Each	354.26	

Item No.	Description Of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
151140	Providing and fixing white, vitreous china pedestal European type water closet pan	Each	980.37	
151150	Extra for using coloured pedestal type W.C. pan (European type) with low level cistern of same colour instead of white, vitreous china W.C. pan and cistern	Each	744.13	
151160	Providing and fixing a pair of white, vitreous china foot rests of standard pattern for squatting pan water closet or in urinals			
151161	250x130x30mm	pair	205.06	0.025
151162	250x125x25mm	pair	125.31	0.025
151170	Providing and fixing a pair of approved colour, vitreous china foot rests of standard pattern, for squatting pan water closet or in urinals			
151171	250x130x30mm	pair	146.99	0.025
151172	250x125x25mm	pair	144.08	0.025
151180	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			
151181	10 litre capacity- white	pair	794.61	0.010
151182	10 litre capacity- Coloured	pair	833.33	0.010
151190	Providing and fixing controlled flush, low level cistern made of vitreous china conforming to IS: 7231, with all fittings complete			
151191	10 litre (full flush) capacity- White	Each	1474.91	0.020
151192	10 litre (full flush) capacity- Coloured	Each	1989.84	0.020
151200	Providing and fixing 5 litres C.I. automatic flushing cistern with fittings	Each	740.65	0.015
151210	Providing and fixing 10 litres C.I. automatic flushing cistern with fittings	Each	1089.10	0.015
151220	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete			
151221	White, solid plastic seat with lid	Each	459.95	
151222	Black solid plastic seat with lid	Each	419.30	
151230	Extra for providing coloured other than black solid P.V.C. plastic seat and cover in European type W.C. pan, instead of white, plastic seat and cover	Each	25.40	
151240	Providing and fixing standard G.I. chain with G.I. pull	Each	34.33	
151250	Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan	Each	91.18	0.001
151260	Providing and fixing white, vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively	Each	651.53	0.020
151270	Providing and fixing white, vitreous china squatting plate urinal with integral longitudinal flush pipe	Each	1112.21	0.020

Item No.	Description Of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
151280	Providing and fixing white, vitreous china wash basin, including making all connections but excluding the cost of fittings			
151281	Flat back wash basin of size 630x450mm	Each	832.01	0.015
151282	Flat back wash basin of size 550x400mm	Each	585.19	0.015
151283	Angle back wash basin of size 600x480mm	Each	839.27	0.015
151284	Angle back wash basin of size 400x400mm	Each	559.05	0.015
151285	Flat back wash basin of size 450x300mm	Each	556.15	0.015
151286	Surgeon type wash basin of size 660x460mm	Each	1282.09	0.015
151290	Providing and fixing white, glazed fire clay kitchen sink of size 600x450x250mm including making all connections excluding cost of fittings	Each	1719.52	
151300	Providing and fixing vitreous china dual purpose closet suitable for use as squatting pan or European type water closet (Anglo Indian W.C. pan) with seat lid with C.P. brass hinges and rubber buffers, 10litre low level flushing cistern with fittings and brackets, 40mm flush bend 20mm overflow pipe 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	Each	4564.03	0.050
	<b>SINK</b>			
152010	Providing and fixing white, glazed fire clay kitchen sink of size 600x450x250mm kitchen sink with C.I. brackets, C.P. brass chain with rubber plug, 40mm C.P. brass waste compete, including painting the fittings and brackets, cutting and making good the walls wherever required	Each	2211.74	0.015
152020	Providing and fixing Stainless Steel AISI- 304 (18/8) kitchen sink with drain board 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			
152021	510x1040 mm bowl depth 250mm	Each	5439.39	0.015
152022	510x1040 mm bowl depth 225mm	Each	6136.29	0.015
152023	510x1040 mm bowl depth 200mm	Each	5671.69	0.015
152024	510X1040 mm bowl depth 178mm	Each	3697.14	0.015
152030	Providing and fixing Stainless Steel AISI- 304 (18/8) kitchen sink without drain board 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			
152031	610x510mm bowl depth 200mm	Each	3524.92	0.015
152032	610x460mm bowl depth 200mm	Each	3176.47	0.015

Item No.	Description Of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
152033	470X420mm bowl depth 178mm	Each	2311.16	0.015
152040	Providing and fixing white, vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug 40mm C.P. brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete including painting of fittings and brackets, cutting and making good the wall wherever required			
152041	Size 450x300x150mm	Each	2280.52	0.015
152042	Size 600x450x200mm	Each	3976.31	0.015
152050	Providing and fixing white, glazed fire clay draining board of size 600x450x25mm with C.I./ M.S. brackets including painting of brackets, cutting and making good the walls wherever required	Each	750.89	0.030
152060	Providing and fixing 75cm X 40cm X 4cm vitreous china draining board for sink supported on painted R.S or C.I brackets, complete including cutting and making good the wall	Each	891.23	0.030
152070	Providing and fixing white, vitreous china laboratory sink, including making all connections excluding the cost of fittings			
152071	Size 450x300x150mm	Each	1324.61	0.030
152072	Size 600x450x200mm	Each	3020.40	0.030
152080	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete			
152081	Semi rigid pipe 32mm dia.	Each	50.33	
152082	Flexible pipe 32mm dia.	Each	69.30	
152083	Semi rigid pipe 40mm dia.	Each	71.43	
152084	Flexible pipe 40mm dia.	Each	80.14	
152090	Providing and fixing 100mm sand cast iron grating for gully, trap	Each	80.79	
152100	Providing and fixing in position 25mm diameter mosquito proof coupling of approved municipal design	Each	35.89	
152110	Providing and fixing 600x450mm bevelled edge mirror , 5.5 mm thick of float glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete	Each	537.62	
152120	Providing and fixing mirror of 5.5 mm thickness of float Glass (of approved Quality) required shape and size with plastic moulded frame of approved make and shade with 6mm thick hard board backing			
152121	Circular shape 450mm dia. (outer dimension)	Each	684.89	
152122	Rectangular shape 453x357mm (outer dimension)	Each	706.75	
152123	Oval shape 450x350mm (outer dimension)	Each	636.66	

Item No.	Description Of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
152124	Rectangular shape 1500x450 (outer dimension)	Each	1723.67	
152130	Providing and fixing 600x120x5mm glass shelf with edges round or supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40mm long screws, rawl plugs etc. complete	Each	403.41	
152140	Providing and fixing toilet paper holder			
152141	C.P. brass	Each	269.75	
152142	Vitreous china	Each	354.15	
	<b>SANITARY FITTINGS</b>			
	<i>Note : Sand cast iron S&amp;S pipes shall not be used except for minor work or due to non availability of centrifugally cast (spun) iron S&amp;S pipe.</i>			
153010	Providing and fixing soil, waste and vent pipes			
153011	100mm dia. Sand cast iron S&S pipe as per IS:1729	metre	586.83	0.005
153012	100mm dia. Centrifugally cast (spun) iron S&S pipe as per IS:3989	metre	602.05	0.005
153013	75mm dia. Sand cast iron S&S pipe as per IS:1729	metre	583.30	0.004
153014	75mm dia. Centrifugally cast (spun) iron S&S pipe as per IS:3989	metre	514.41	0.004
153020	Providing and filling the joints with spun yarn cement slurry and cement mortar 1:2 (1cement: 2fine sand) in S.C.I./ C.I. pipes			
153021	75mm dia pipe	Each	31.89	0.001
153022	100mm dia pipe	Each	37.55	0.001
153030	Providing and fixing M.S. holder-bat clamps of approved design to sand cast iron/ cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1cement: 2coarse sand: 4graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc.			
153031	For 100mm dia pipe	Each	89.09	0.005
153032	For 75mm dia pipe	Each	85.03	0.005
153040	Providing and fixing bend of required degree with access door, insertion rubber washer 3mm thick, bolts and nuts complete			
153041	100mm dia. Sand cast iron S&S as per IS-1729	Each	365.72	
153042	100mm dia. Sand cast iron S&S as per IS-3989	Each	420.11	
153043	75mm dia. Sand cast iron S&S as per IS-1729	Each	245.50	
153044	75mm dia. Sand cast iron S&S as per IS-3989	Each	303.58	
153050	Providing and fixing plain bend of required degree			
153051	100mm dia. Sand cast iron S&S as per IS-1729	Each	247.83	

Item No.	Description Of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
153052	100mm dia. Sand cast iron S&S as per IS-3989	Each	343.46	
153053	75mm dia. Sand cast iron S&S as per IS-1729	Each	208.76	
153054	75mm dia. Sand cast iron S&S as per IS-3989	Each	280.97	
153060	Providing and fixing heel rest sanitary bend			
153061	100mm dia. Sand cast iron S&S as per IS-1729	Each	352.01	
153062	100mm dia. Sand cast iron S&S as per IS-3989	Each	374.82	
153063	75mm dia. Sand cast iron S&S as per IS-1729	Each	310.00	
153064	75mm dia. Sand cast iron S&S as per IS-3989	Each	293.16	
153070	Providing and fixing double equal junction of required degree with access door, insertion rubber washers 3mm thick, bolts and nuts complete			
153071	100x100x100x100mm sand cast iron S&S as per IS-1729	Each	670.42	
153072	100x100x100x100mm Sand cast iron S&S as per IS-3989	Each	629.77	
153073	75x75x75x75mm sand cast iron S&S as per IS-1729	Each	589.02	
153074	75x75x75x75mm Sand cast iron S&S as per IS-3989	Each	530.07	
153080	Providing and fixing double equal plain junction of required degree			
153081	100x100x100x100mm sand cast iron S&S as per IS-1729	Each	460.38	
153082	100x100x100x100mm Sand cast iron S&S as per IS-3989	Each	565.30	
153083	75x75x75x75mm sand cast iron S&S as per IS-1729	Each	367.85	
153084	75x75x75x75mm Sand cast iron S&S as per IS-3989	Each	474.71	
153090	Providing and fixing single equal plain junction of required degree with access door, insertion rubber wash 3mm thick, bolts and nuts complete			
153091	100x100x100mm sand cast iron S&S as per IS-1729	Each	581.85	
153092	100x100x100mm Sand cast iron S&S as per IS-3989	Each	549.62	
153093	75x75x75mm sand cast iron S&S as per IS-1729	Each	425.53	
153094	75x75x75mm Sand cast iron S&S as per IS-3989	Each	405.79	
153100	Providing and fixing single equal plain junction of required degree			
153101	100x100x100mm sand cast iron S&S as per IS-1729	Each	344.62	
153102	100x100x100mm Sand cast iron S&S as per IS-3989	Each	467.16	

Item No.	Description Of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
153103	75x75x75mm sand cast iron S&S as per IS-1729	Each	255.99	
153104	75x75x75mm Sand cast iron S&S as per IS-3989	Each	352.98	
153110	Providing and fixing double unequal junction of required degree with access door, insertion rubber washers 3mm thick, bolts and nuts complete			
153111	100x100x75x75mm sand cast iron S&S as per IS-1729	Each	592.02	
153112	100x100x75x75mm Sand cast iron S&S as per IS-3989	Each	851.61	
153120	Providing and fixing double unequal plain junction of required degree			
153121	100x100x75x75mm sand cast iron S&S as per IS-3989	Each	542.07	
153122	100x100x75x75mm Sand cast iron S&S as per IS-1729	Each	620.47	
153130	Providing and fixing single unequal junction of required degree with access door insertion washer 3mm thick, bolts and nuts complete			
153131	100x100x75mm sand cast iron S&S as per IS-1729	Each	449.73	
153132	100x100x75mm Sand cast iron S&S as per IS-3989	Each	615.25	
153140	Providing and fixing single unequal plain junction of required degree			
153141	100x100x75mm sand cast iron S&S as per IS-1729	Each	423.02	
153142	100x100x75mm Sand cast iron S&S as per IS-3989	Each	521.75	
153150	Providing and fixing double equal plain invert branch of required degree			
153151	100x100x100x100mm sand cast iron S&S as per IS-1729	Each	507.23	
153152	100x100x100x100mm Sand cast iron S&S as per IS-3989	Each	576.92	
153153	75x75x75x75mm sand cast iron S&S as per IS-1729	Each	444.16	
153154	75x75x75x75mm Sand cast iron S&S as per IS-3989	Each	482.49	
153160	Providing and fixing single equal plain invert branch of required degree			
153161	100x100x100mm sand cast iron S&S as per IS-1729	Each	540.17	
153162	100x100x100mm Sand cast iron S&S as per IS-3989	Each	593.12	
153163	75x75x75mm sand cast iron S&S as per IS-1729	Each	385.31	
153164	75x75x75mm Sand cast iron S&S as per IS-3989	Each	369.05	
153170	Providing and fixing double unequal invert branch of required degree			
153171	100x100x75x75mm sand cast iron S&S as per IS-1729	Each	562.40	

Item No.	Description Of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
153172	100x100x75x75mm Sand cast iron S&S as per IS-3989	Each	585.63	
153180	Providing and fixing single unequal plain invert branch of required degree			
153181	100x100x75mm sand cast iron S&S as per IS-1729	Each	469.48	
153182	100x100x75mm Sand cast iron S&S as per IS-3989	Each	492.71	
153190	Providing and fixing sand cast iron S&S off sets as per IS-1729			
153191	76mm off sets with 75mm dia pipe	Each	323.36	
153192	76mm off sets with 100mm dia pipe	Each	326.46	
153193	114mm off sets with 75mm dia pipe	Each	366.34	
153194	114mm off sets with 100mm dia pipe	Each	526.20	
153195	152mm off set with 75mm dia pipe	Each	341.39	
153196	152mm off sets with 100mm dia pipe	Each	405.85	
153200	Providing and fixing Sand cast iron S&S off sets as per IS-3989			
153201	75mm off sets with 75mm dia pipe	Each	308.84	
153202	150mm off sets with 75mm dia pipe	Each	466.99	
153203	150 mm off sets with 100mm dia pipe	Each	723.68	
153210	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts and nuts complete			
153211	100mm Sand cast iron S&S as per IS-1729	Each	492.13	
153212	100mm Sand cast iron S&S as per IS-3989	Each	600.73	
153213	75mm Sand cast iron S&S as per IS-1729	Each	321.00	
153214	75mm Sand cast iron S&S as per IS-3989	Each	498.13	
153215	50mm Sand cast iron S&S as per IS-1729	Each	163.58	
153216	50 mm Sand cast iron S&S as per IS-3989	Each	114.70	
153220	Providing and fixing terminal guard			
153221	100mm Sand cast iron S&S as per IS-1729	Each	255.96	
153222	100mm Sand cast iron S&S as per IS-3989	Each	289.45	
153223	75mm Sand cast iron S&S as per IS-1729	Each	145.65	
153224	75mm Sand cast iron S&S as per IS-3989	Each	221.15	
153225	50mm Sand cast iron S&S as per IS-1729	Each	97.57	
153226	50 mm Sand cast iron S&S as per IS-3989	Each	116.34	
153230	Supplying, fitting and fixing cowls to vent pipes :			
153231	Wire cowls for pipes of size 50/75 mm dia.	Each	88.85	
153232	Wire cowls for pipes of size 100/150 mm dia.	Each	122.25	
153240	Providing and fixing collar			

Item No.	Description Of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
153241	100mm Sand cast iron S&S as per IS-1729	Each	147.16	
153242	100mm Centrifugally cast (spun) iron S&S as per IS-3989	Each	247.05	
153243	75mm Sand cast iron S&S as per IS-1729	Each	128.81	
153244	75mm Centrifugally cast (spun) iron S&S as per IS 3989	Each	216.79	
153245	50mm Sand cast iron S&S as per IS-1729	Each	119.32	
153246	50 mm Centrifugally cast (spun) iron S&S as per IS-3989	Each	138.68	
153250	Providing lead caulked joints to sand cast iron/ centrifugally cast (spun) iron pipes and fittings of diameter			
153251	100mm	Each	220.42	
153252	75mm	Each	190.67	
153253	50mm	Each	157.45	
153260	Providing and fixing M.S. stays and clamps for sand cast iron/ centrifugally cast (spun) iron pipes of diameter			
153261	100mm	Each	65.47	
153262	75mm	Each	56.60	
153263	50mm	Each	48.11	
153270	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete including cost of cutting and making good the walls and floors			
153271	100mm inlet and 100mm outlet Sand cast iron S&S as per IS: 3989	Each	731.59	0.025
153272	100mm inlet and 100mm outlet sand cast iron S&S as per IS:1729	Each	518.65	0.025
153273	100mm inlet and 75mm outlet Sand cast iron S&S as per IS: 3989	Each	766.44	0.025
153274	100mm inlet and 75mm outlet sand cast iron S&S as per IS:1729	Each	443.15	0.025
153280	Providing and fixing Poly Tetra Methylene Terephthalate (PTMT) Waste Coupling for wash basin and sink, of approved quality, colour and make			
153281	Waste coupling 31mm of 79mm length and 62mm breadth weighing not less than 45gms	Each	69.47	
153282	Waste coupling 38mm of 83mm length and 77mm breadth, weighing not less than 60gms	Each	97.34	
153290	Providing and fixing PTMT Bottle Trap for Wash basin and sink			
153291	Bottle trap 31mm single piece moulded with height of 270mm, effective length of tail pipe 250mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 270gms	Each	416.98	

Item No.	Description Of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
153292	Bottle trap 38mm single piece moulded with height of 270mm, effective length of tail pipe 265mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 270gms	Each	458.60	
153300	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials/ with snap fittings of approved quality colour and make, weighing not less than 105gms	Each	188.16	
153310	Providing and fixing PTMT towel ring trapezoidal shape 215mm long, 200mm width with a minimum distance of 37mm from wall face with concealed fittings arrangement of approved quality, colour and make weighing not less than 90gms	Each	170.35	
153320	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with C.P. brass screws with concealed fitting arrangement of approved quality colour and make			
153321	450mm long towel rail with total length of 495mm, 78mm wide and effective height of 88mm, weighing not less than 170gms	Each	338.03	
153322	600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms	Each	373.65	
153330	Providing and fixing PTMT shelf 440mm long, 124mm width and 36mm height of approved quality, colour and make weighing not less than 300gms	Each	414.69	
153340	Providing and fixing PTMT 15mm Urinal spreader size 95x69x100mm with ½ Inch BSP thread and shapes as per BIS specifications, weighing not less than 60gms	Each	158.89	
153350	Providing and fixing PTMT urinal cock 15mm nominal size 80mm long, 42mm high and 30mm wide with BSP female threads weighing not less than 48 gms. of approved quality, colour and make	Each	121.61	
153360	Providing and fixing PTMT shower rose of approved quality with 15mm or 20mm inlet. 100mm dia.	Each	102.25	
153370	Providing and fixing PTMT shower rose of approved quality with 15mm or 20mm inlet. 150 mm dia.	Each	157.42	
153380	Providing and fixing C P brass Soap dish holder having length of 138 mm, 102 mm wide, 75 mm high with concealed fittings arrangements weighing approx. 110 gms	Each	154.94	
153390	Providing and fixing Shower rose (C.P.) brass with swivel joint having aprox. wt. 270 gm	Each	340.31	
153400	Providing and fixing Towel rail (C.P.) brass 15 mm dia x 450 mm long having approx. wt. 380 gm	Each	287.04	

Item No.	Description Of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
153410	Providing and fixing Towel rail (C.P.)brass15 mm dia x 600 mm long having approx. wt.500 gm	Each	322.66	
153420	Providing and fixing C P brass Towel ring in trapezoidal shape having length of 215 mm, width 200 mm, minimum distance from wall 37 mm with concealed fittings arrangements weighing approx. 90 gms	Each	186.24	
153430	Providing and fixing C P brass Shelf of 450 mm length complete with glass, 124 mm width & 36 mm ht. having approx. wt. 300 gms (Without Glass)	Each	642.32	
153440	Providing and fixing C P brass Bottle trap 31 mm, single piece moulded of ht. 270 mm, effective length of tall pipe from centre of waste coupling 260 mm, 77 mm breadth water seal of minimum 25 mm, weighing approx. 260 gms	Each	430.50	
153450	Providing and fixing C P brass Shower arm 15 mm size with 15 mm (1/2") B.S.P. threads, 195 mm long with a bend of 45 (effective length of 210 mm) provided with a flange of 56 mm dia and having approx. wt. of 40 gms	Each	304.63	
153460	Providing and fixing C P brass Swivelling shower 15 mm nominal size, 95 mm long, 60 mm dia. & having approx. wt. of 45 gms with approx. 90 holes of 1.2 mm dia.	Each	269.78	
153470	Providing and fixing C P brass grating with openable lid :			
153471	Grating 100 mm nominal dia. and 12 mm. high domed shape having wt. not less than 25 gms	Each	101.48	
153472	Grating 125 mm nominal dia. and 15 mm. high domed shape having wt. not less than 40 gms	Each	123.94	
153480	Providing and fixing C P Brass :			
153481	Grating 150 mm. nominal size square ,18 mm high with 100 mm dia. of the inner hinged round grating dome shape having Total wt. not less than 110 gms	Each	151.04	
153482	Grating square slit type 150 mm square with 8 mm high & approx. Total wt. of 100 gms	Each	114.07	
153490	Providing and fixing PVC connector 15 mm size with non corrosive PTMT couplings in both ends			
153491	15mm dia 300mm long	Each	48.18	
153492	15mm dia 450mm long	Each	66.19	
153493	15mm dia 600mm long	Each	79.54	
153500	Providing and fixing Swan neck pillar tap (C.P. Brass) 15 mm dia. with swinging spout having approx. wt. 1000 gms	Each	476.55	
153510	Providing and fixing Telephonic shower (C.P. Brass) 100 mm dia with flexible PVC tube 1.5m long including C.P. hook	Each	366.43	
153520	Providing and fixing Shower arm (C.P. Brass) 15 mm dia. x 225 mm long	Each	145.76	

Item No.	Description Of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
153530	Providing and fixing Basin/sink waste (C.P. Brass) coupling with chain and stopper complete			
153531	a) Waste 32 mm	Each	113.23	
153532	b) Waste 40 mm	Each	139.36	
153540	Providing and fixing Liquid soap container (C.P. Brass) having approx wt. 240 gms	Each	196.37	
153550	Providing and fixing Toilet paper holder (C.P. Brass) having approx. wt. 250 gm	Each	208.37	
153560	Providing and fixing Coat hook "J" type two way (C.P.Brass)	Each	87.43	
153570	Providing and fixing Soap dish (C.P. Brass) having approx. wt. 220 gm	Each	150.53	
153580	Supplying and fixing half round white glazed earthen ware drains 100 mm dia with cement sand mortar 1:3 mix and joints grouted with neat cement slurry of the matching colour :	metre	81.06	0.003
153590	Supplying and fixing half round white glazed earthen ware drains 150 mm dia with cement sand mortar 1:3 mix and joints grouted with neat cement slurry of the matching colour	metre	100.67	0.002
153600	Extra if coloured half round drains are provided in lieu of white glazed half round drains with cement sand mortar 1:3 mix and joints grouted with neat cement slurry of the matching colour over item 153580 & 153590	metre	20.41	
153610	Providing and fixing 20mm diameter puff pipe, complete with brass perforated cap	Each	149.87	
153620	Providing and fixing 25mm diameter puff pipe, complete with brass perforated cap	Each	158.00	
153630	Providing and fixing S.C.I. trap with 10 cm inlet and 10 cm outlet of self cleansing design with S.C.I. screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors	Each	425.73	
153640	Providing and fixing 10 cm inlet and 5 cm outlet S.C.I. floor trap of self cleansing design with S.C.I. screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors	Each	425.73	
	<b>PVC PIPES AND FITTINGS</b>			
154010	Providing and fixing 110mm dia PVC soil, waste and vent pipes including jointing and cost of spun yarn and sand etc. complete	metre	226.92	
154020	Providing and fixing brackets comprising of aluminium painted standard steel clip and cast iron base for 110mm A.C. pipes, including cost of screws etc. and drilling of holes and making good the walls including cost of sand etc. complete	Each	77.71	

Item No.	Description Of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
154030	Providing and fixing 110 mm x 110 mm x 110mm dia PVC plain branch (single equal junction)of the required degree including jointing and cost of spun yarn and sand etc., complete	Each	117.00	
154040	Providing and fixing 110 mm x 110 mm x 110mm dia PVC plain branch (single equal junction)of the required degree with access door inclusive of 3mm thick bitumastic felt washer and bolts and nuts, complete, including jointing and the cost of spun yarn and sand etc., complete	Each	130.39	
154050	Providing and fixing 110 mm x 110 mm x 110mm x 110 mm PVC plain branch (double equal junction)of the required degree including jointing and cost of spun yarn and sand etc., complete	Each	133.29	
154060	Providing and fixing 110 mm x 110 mm x 110mm dia PVC plain branch (double equal junction) of the required degree with access door inclusive of 3mm thick bitumastic felt washer and bolts and nuts, complete, including jointing and cost of spun yarn and sand etc., complete	Each	143.17	
154070	Providing and fixing 110 mm x 110 mm x 5mm PVC plain branch (single unequal junction) of the required degree with access door inclusive of 3mm thick bitumastic felt washer and bolts and nuts, complete, including jointing and cost of spun yarn and sand etc., complete	Each	119.18	
154080	Providing and fixing 110 mm x 110 mm x 5mm x 5 mm PVC branch double unequal junction)of the required degree with access door inclusive of 3mm thick bitumastic felt washer and bolts and nuts, complete, including jointing and the cost of spun yarn and sand etc., complete	Each	174.82	
154090	Providing and fixing 110 mm PVC offset including jointing and cost of spun yarn and sand etc., complete :			
154091	(a) With 10 cm projection	Each	175.07	
154092	(b) With 15 cm projection	Each	186.69	
154093	(c) With 30 cm projection	Each	186.69	
154100	Providing and fixing 110 mm PVC Plain bend of the required degree with access door inclusive of 3mm thick bitumastic felt washer, bolts and nuts, complete, including jointing and cost of spun yarn and sand etc. complete	Each	83.35	
154110	Providing and fixing 110 mm PVC bend of the required degree with access door inclusive of 3mm thick bitumastic felt washer, bolts and nuts, complete, including jointing and cost of spun yarn and sand etc. complete	Each	83.35	
154120	Providing and fixing 110mm dia PVC terminal guard including jointing and cost of spun yarn and sand etc, complete	Each	269.08	

Item No.	Description Of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
154130	Providing and fixing 110 mm PVC collar (loose socket) including jointing and cost of spun yarn and sand etc. complete	Each	76.27	
154140	Providing and fixing 75 mm PVC soil, waste and vent pipes including jointing and cost of spun yarn and sand etc., complete	metre	134.53	
154150	Providing and fixing brackets comprising of aluminium painted steel clips and cast iron base for 75 mm PVC pipes including cost of screws etc. and drilling of holes and making good the walls, including cost of sand etc. complete	Each	67.21	
154160	Providing and fixing 75mm x 75 mm x 75 mm PVC plain branch (single equal junction)of the required degree including jointing and the cost of spun yarn and sand etc., complete	Each	117.70	
154170	Providing and fixing 75mm x 75 mm x 75mm dia PVC branch (single equal junction) of the required degree with access door inclusive of 3mm thick bitumastic felt washer including jointing and cost of spun yarn and sand etc., complete	Each	124.90	
154180	Providing and fixing 75 mm x 75 mm x 75mm x 75 mm PVC plain branch (double equal junction) of the required degree including jointing and cost of spun yarn and sand etc., complete	Each	117.00	
154190	Providing and fixing 75 mm x 75 mm x 75 mm x 75 mm PVC plain branch (double equal junction) of the required degree with access door inclusive of 3mm thick bitumastic felt washer and bolts and nuts, complete, including jointing and cost of spun yarn and sand etc., complete	Each	129.23	
154200	Providing and fixing 75 mm dia PVC offset including jointing and cost of spun yarn and sand etc., complete :			
154201	With 5 cm projection	Each	117.00	
154202	With 10 cm projection	Each	122.81	
154203	With 15 cm projection	Each	146.04	
154204	With 30 cm projection	Each	157.65	
154210	Providing and fixing 8cm dia PVC Plain bend of the required degree including jointing and cost of spun yarn and sand etc. complete	Each	163.46	
154220	Providing and fixing 8 cm PVC bend of the required degree with access door inclusive of 3mm thick bitumastic felt washer, bolts and nuts, complete, including jointing and cost of spun yarn and sand etc. complete	Each	201.24	
154230	Providing and fixing 75mm dia PVC terminal guard including jointing and cost of spun yarn and sand etc, complete	Each	79.09	
154240	Providing and fixing 75 mm PVC collar (loose socket) including jointing and cost of spun yarn and sand etc. complete	Each	48.12	
	<b>LEAD PIPES</b>			

Item No.	Description Of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
155010	Providing and fixing 32mm diameter lead pipe	metre	299.38	
155020	Providing wiped solder joint to 32mm dia, lead pipe and fittings including cost of jointing materials	Each	295.98	
155030	providing and fixing with porcelain / white vitreous china /coloured interconnection for flush pipe connection with WC pan (for low down	Each	329.45	
155040	Supplying 32 mm dia telescopic plastic flush pipe with unions etc.	Each	107.28	
155050	Supplying and fixing marble stone 20 to 25 mm thick in masonry or concrete as a purdha to urinal range etc. Stone to be machine cut and well polished on all faces and the edges to be moulded by semi circular rounding & polishing. Marble shall be any one of the following :			
155051	Makrana chalk doongri	Sqm	1515.83	
155052	Makrana Dhobi doongri	Sqm	1542.94	
155053	Black Zebra Kishangarh	Sqm	1260.30	
155054	Bundi or Baroda green marble	Sqm	1318.38	
155060	Supplying and fixing pipe as outlet or waste pipe to wash basins sink and bowl type urinals etc. complete including providing clamps to hold the pipe, making holes in masonry and making it good to original condition when not included in the item			
155061	50 mm bore (2.90 mm thick and 4.18 Kg/metre weight minimum) M.S. galvanized for bowl urinals and sinks, etc.	metre	295.40	
155062	32 mm bore ( 2.65 mm thick and 2.61 Kg/metre weight minimum) M.S. galvanized for wash basin etc.	metre	185.49	
155063	PVC 50 mm bore 1.7 mm thick	metre	126.20	
155064	PVC 32 mm bore 1.4 mm thick	metre	93.58	
155070	Supplying and fixing granite stone superior quality black 20 to 25mm thick in masonry or concrete as a Purdah to urinal range etc. stone to be machine cut & well polished on all faces and the edges to be moulded by semi-circular rounding and polishing. NOTE : The following percentage is to be added / deducted incase of granites other than superior quality black. i) For superior quality Red like "RBI" red add 15% extra ii) For pink coloured granite deduct 25% iii) For gray coloured granite deduct 18%	Sqm	3587.73	0.050
155080	Supplying and fixing cast iron brackets in walls for fixing flushing cistern, including making holes in masonry and making good the surface to its original condition. (When ordered separately)	Pair	135.16	0.020
155090	Providing and fixing aluminium drain boards 600 x 450 mm	Each	679.03	0.030
155100	Providing and fixing Aluminium anodized towel rails with brackets			
155101	a) 750 x 20 mm dia	Each	333.48	
155102	b) 600 x 20 mm dia	Each	287.02	

Item No.	Description Of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
155110	Providing and fixing brass robe hook swinging type with 3 hooks as approved by Engineer-in-charge	Each	102.15	
155120	Providing and fixing air purifier container of anodized aluminium with brackets	Each	88.60	
155130	Providing and fixing self-closing taps of 15 mm nominal size of :			
155131	Cast iron	Each	65.43	
155132	Malleable iron casting	Each	46.85	
155140	Providing and fixing Chromium plated brass waste plug for glazed ware sinks, basins, etc. with long screwed shank and fly nut, and fixed to unplasticised pipe, including vulcanite rubber plug, brass chain and stud, complete, of nominal bore :			
155141	32 mm	Each	66.44	
155142	40 mm	Each	94.97	
155143	50 mm	Each	79.49	
155150	Providing and fixing rubber or vulcanite waste plug with ring, including chromium plated brass chain, not exceeding 50 cm. In length, and stay, for nominal bore :			
155151	32 mm	Each	63.61	
155152	40 mm	Each	72.61	
155153	50 mm	Each	81.03	
155160	Supplying fitting and fixing float valve for cisterns complete with polythene ball			
155161	15 mm dia set	Each	239.40	
155162	20mm dia set	Each	262.63	
155170	Providing and fixing Towel ring (C.P.) of approved make 170 mm dia having approx. weight 490 gm	Each	180.21	
155180	Providing and fixing Connector (C.P.) with coupling 15 mm x 450 mm long	Each	162.20	
155190	Providing and fixing Connector (C.P.) with coupling 15 mm x 600 mm long	Each	199.95	
155200	Providing and fixing Flush valve (C.P.) 25 mm with 25 mm size control cock having approx. wieght 2.75 kg conforming to I.S. 9758:1981	Each	276.20	
155210	Providing and fixing Flush valve (C.P.) 32 mm with elbow set ISI marked (IS : 9758 : 1981)	Each	429.71	
155220	Providing and fixing Glass Shelf of approved make or equivalent of size 550 mm x 130 mm x 5.5 mm thick (rounded end) with C.P. brass brackets & guard rails having approx. wt.2.4 kg	Each	568.71	
155230	Supplying fitting and fixing soap tray of size150x150mm vitreous (conceaed type) with all necessary fittings etc. completed as directed by the Engineer-incharge	Each	212.68	
155240	Supplying and fixing approved quality chromium plated shirt hooks (One unit of 4 hooks) with all necessary fittings etc. complete and as directed by the Engineer-in-charge	Each	86.74	
155250	P&F 127mm dia C.P. steel Jali cockroach trap (CCTR-127) for gully floor or Nahani trap	Each	217.80	

Item No.	Description Of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
155260	Supplying and fixing 150 mmx150mm HCI / CI Tee for septic tank as a complete job	Each	453.68	
	<b>MISCELLANEOUS</b>			
156010	Cutting chases in brick masonry walls for following diameter sand cast iron/ centrifugally cast (spun) iron or any other types of pipes and making good the same with cement concrete 1:3:6 (1cement: 3coarse sand: 6graded stone aggregate 12.5mm nominal size) including necessary plaster and pointing in cement mortar 1:4 (1cement: 4coarse sand)			
156011	100mm dia.	metre	132.96	0.005
156012	75mm dia.	metre	95.33	0.004
156013	50mm dia.	metre	62.10	0.002
156020	Painting two or more coats, C.I. cistern with bitumastic or any other anti-corrosive paint inside and white/approved colour , paint over a coat of zinc chromate yellow primer (of approved quality) on the outside surface of the cistern, flush pipe, other fittings etc. to give an even shade complete for new work	Each	283.23	
156030	Re-painting one or more coats ,C.I. cistern with bitumastic or any other anti-corrosive paint inside and white/approved colour, paint on the outside surface of the cistern, flush pipe, other fittings etc. complete including polishing of wooden seat and lid to give an even shade and cleaning of W.C. pan with acid wherever necessary	Each	182.67	
156040	Re-painting C.I. one or more coats, cistern with synthetic enamel paint of approved colour brand and manufacture on the outside surface of cistern flush pipe, other fittings etc. to give an even shade complete	Each	85.77	
156050	Painting two or more coats on , sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with paint of any colour such as chocolate, grey or buff etc. over a coat of primer (of approved quality) to give an even shade for new work			
156051	100mm diameter pipe	metre	22.73	
156052	Upto 75mm diameter pipe	metre	17.35	
156060	Re-painting one or more coats sand cast iron/ centrifugally cast iron (spun) iron, soil, waste, vent pipes and fittings to give an even shade with paint of any colour such as chocolate, grey or buff etc.			
156061	100mm diameter pipe	metre	11.19	
156062	Upto 75mm diameter pipe	metre	8.38	

<b>Item No.</b>	<b>Description Of Item</b>	<b>Unit</b>	<b>Rate (Rs.)</b>	<b>Cement Qty.(qtl.)</b>
156070	Repainting bath tub of size 1700x730x430mm (or of any other size ) with enamel paint one or more coats to give an even shade	Each	257.38	
	<b>New Items To Be Added By Zonal Railways</b>			
157010				
157020				
157030				
157040				
157050				
157060				
157070				
157080				
157090				
157100				