

CHAPTER - 13 : WATER SUPPLY				
Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
	PE-AL-PE COMPOSITE PRESSURE PIPES			
131010	Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS-15450 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80° C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with clamps at 1.00 M spacing. This includes cost of cutting chases, where necessary, testing of joints complete as per direction of the Engineer-in-charge. Internal work - Exposed			
131011	1216 (16mm OD) pipe	metre	187.00	
131012	1620 (20mm OD) pipe	metre	226.49	
131013	2025 (25mm OD) pipe	metre	272.77	
131014	2532 (32mm OD) pipe	metre	361.41	
131015	3240 (40mm OD) pipe	metre	464.51	
131016	4050 (50mm OD) pipe	metre	597.38	
131020	Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS-15450 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80° C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with clamps at 1.00 M spacing. This includes cost of cutting chases, where necessary, testing of joints complete as per direction of the Engineer-in-charge. concealed work incl. cutting chases & making good the wall			
131021	1216 (16mm OD) pipe	metre	225.15	0.01
131022	1620 (20mm OD) pipe	metre	261.39	0.01
131023	2025 (25mm OD) pipe	metre	304.42	0.01
131024	2532 (32mm OD) pipe	metre	386.72	0.01
131030	Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS-15450 U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80° C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc. with trenching, refilling and testing of joints complete as per direction of the Engineer-in-charge (external work)			
131031	1216 (16mm OD) pipe	metre	182.69	
131032	1620 (20mm OD) pipe	metre	218.93	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
131033	2025 (25mm OD) pipe	metre	261.96	
131034	2532 (32mm OD) pipe	metre	344.25	
131035	3240 (40mm OD) pipe	metre	439.41	
131036	4050 (50mm OD) pipe	metre	572.29	
131040	Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) pipes, approved by CBRI and conforming to IS:15801; SDR 7.4 U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including fixing pipe with clamps at 1.0m spacing This includes testing of joints complete as per direction of Engineer-in-Charge. Internal work – exposed on wall			
131041	PN-16 Pipe, 16mm OD	metre	103.14	
131042	PN-16 Pipe, 20mm OD	metre	112.88	
131043	PN-16 Pipe, 25mm OD	metre	154.78	
131044	PN-16 Pipe, 32mm OD	metre	223.28	
131045	PN-16 Pipe, 40mm OD	metre	330.21	
131046	PN-16 Pipe, 50mm OD	metre	474.23	
131050	Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) pipes, approved by CBRI and conforming to IS:15801; SDR 7.4 U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including fixing the pipe with clamps at 1.00m spacing in. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work including cutting chases and making good the walls etc.			
131051	PN-16 Pipe, 16mm OD	metre	140.97	0.01
131052	PN-16 Pipe, 20mm OD	metre	147.46	0.01
131053	PN-16 Pipe, 25mm OD	metre	186.12	0.01
131054	PN-16 Pipe, 32mm OD	metre	248.10	0.01
131060	Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) pipes, approved by CBRI and conforming to IS:15801; U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work			
131061	PN-16 Pipe, 16mm OD (SDR-7.4)	metre	98.51	
131062	PN-16 Pipe, 20mm OD (SDR-7.4)	metre	105.00	
131063	PN-16 Pipe, 25mm OD (SDR-7.4)	metre	146.41	
131064	PN-16 Pipe, 32mm OD (SDR-7.4)	metre	208.40	
131065	PN-16 Pipe, 40mm OD (SDR-7.4)	metre	304.50	
131066	PN-16 Pipe, 50mm OD (SDR-7.4)	metre	448.52	
131067	PN-16 Pipe, 63mm OD (SDR-7.4)	metre	713.34	
131068	PN-16 Pipe, 75mm OD (SDR-7.4)	metre	955.74	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
131069	PN-16 Pipe, 90mm OD (SDR-7.4)	metre	1461.36	
131070	Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) designated as PN-10 pipes, approved by CBRI and conforming to IS:15801; U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work (higher dia)			
131071	PN-10 Pipe, 110mm OD (SDR-11)	metre	1890.19	
131072	PN-10 Pipe, 160mm OD (SDR-11)	metre	3811.32	
131080	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 1.00m 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. Internal work – exposed on wall			
131081	15mm nominal outer dia. Pipes	metre	116.76	
131082	20mm nominal outer dia. Pipes	metre	139.14	
131083	25mm nominal outer dia. Pipes	metre	172.35	
131084	32mm nominal outer dia. Pipes	metre	224.01	
131085	40mm nominal outer dia. Pipes	metre	314.77	
131086	50mm nominal outer dia. Pipes	metre	461.74	
131090	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 1.00m spacing in This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work including cutting chases and making good the walls			
131091	15mm nominal outer dia. Pipes	metre	151.67	0.01
131092	20mm nominal outer dia. Pipes	metre	170.79	0.01
131093	25mm nominal outer dia. Pipes	metre	204.01	0.01
131094	32mm nominal outer dia. Pipes	metre	249.31	0.01
131100	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer-in-Charge. External work			
131101	15mm nominal outer dia. Pipes	metre	109.21	
131102	20mm nominal outer dia. Pipes	metre	128.33	
131103	25mm nominal outer dia. Pipes	metre	164.31	
131104	32mm nominal outer dia. Pipes	metre	209.61	
131105	40mm nominal outer dia. Pipes	metre	289.67	
131106	50mm nominal outer dia. Pipes	metre	436.64	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
131107	62.50mm nominal outer dia. Pipes	metre	1293.72	
131120	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) Large diameter pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling and testing of joints complete as per direction of Engineer-in-Charge. External work (higher dia)			
131121	75mm nominal outer dia. Pipes	metre	1825.98	
131122	100mm nominal outer dia. Pipes	metre	2248.05	
131123	150mm nominal outer dia. Pipes	metre	3542.34	
131130	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. Internal work – Exposed on wall			
131131	15 mm dia. nominal bore	metre	129.09	
131132	20 mm dia. nominal bore	metre	172.90	
131133	25 mm dia. nominal bore	metre	220.56	
131134	32 mm dia. nominal bore	metre	256.63	
131135	40 mm dia. nominal bore	metre	309.89	
131136	50 mm dia. nominal bore	metre	407.29	
131140	Providing and fixing medium grade G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the wall etc. Concealed pipe including painting with anti corrosive bitumestic paint, cutting chase and making good the wall			
131141	15 mm dia. nominal bore	metre	170.00	0.01
131142	20 mm dia. nominal bore	metre	210.57	0.01
131143	25 mm dia. nominal bore	metre	254.65	0.01
131144	32 mm dia. nominal bore	metre	284.37	0.01
131150	Providing and fixing medium grade G.I. pipes complete with G.I. fittings including trenching and refilling etc. External Work			
131151	15 mm dia. nominal bore	metre	124.14	
131152	20 mm dia. nominal bore	metre	164.71	
131153	25 mm dia. nominal bore	metre	211.71	
131154	32 mm dia. nominal bore	metre	241.43	
131155	40 mm dia. nominal bore	metre	283.71	
131156	50 mm dia. nominal bore	metre	367.86	
131157	65 mm dia. nominal bore	metre	446.52	
131158	80 mm dia. nominal bore	metre	553.38	
131159	100 mm dia. nominal bore	metre	717.95	
131160	Making connection of medium grade G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete			
131161	25 to 40 mm nominal bore	Each	215.48	
131162	50 to 80 mm nominal bore	Each	528.66	
131163	100 mm to 150 mm dia.	Each	948.61	
131170	Fixing water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid separately)	Each	161.55	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
131180	Providing and fixing PP-R Gate Valve fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge			
131181	25 mm Gate Valve	Each	421.59	
131182	32 mm Gate Valve	Each	560.39	
131183	40 mm Gate Valve	Each	756.06	
131184	50 mm Gate Valve	Each	971.23	
131185	63 mm Gate Valve	Each	1353.05	
131190	Providing and fixing PP-R Brass Ball Valve fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge			
131191	20mm Ball Valve	Each	656.79	
131192	25mm Ball Valve	Each	757.24	
131193	32mm Ball Valve	Each	1168.39	
131194	40mm Ball Valve	Each	1283.36	
131200	Providing and fixing PP-R Male adopter conforming to PN-25 rating with marking on each fitting, fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge			
131201	20mm adopter for PPR-GI connection	Each	196.64	
131202	25mm adopter for PPR-GI connection	Each	197.42	
131203	32mm adopter for PPR-GI connection	Each	320.23	
131204	40mm adopter for PPR-GI connection	Each	425.83	
131205	50mm adopter for PPR-GI connection	Each	859.05	
131206	63mm adopter for PPR-GI connection	Each	1183.78	
131207	75mm adopter for PPR-GI connection	Each	1396.61	
131208	90mm adopter for PPR-GI connection	Each	3649.92	
	BRASS & C P BRASS fittings			
132010	Providing and fixing brass bib cock of approved quality			
132011	15 mm nominal bore	Each	215.72	
132012	20 mm nominal bore	Each	240.65	
132013	25 mm nominal bore	Each	273.07	
132020	Providing and fixing brass stop cock of approved quality			
132021	15 mm nominal bore	Each	245.57	
132022	20 mm nominal bore	Each	315.49	
132023	25 mm nominal bore	Each	376.33	
132024	32 mm nominal bore	Each	501.19	
132025	40 mm nominal bore	Each	589.46	
132026	50 mm nominal bore	Each	661.18	
132030	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)			
132031	25 mm nominal bore	Each	324.64	
132032	32 mm nominal bore	Each	410.59	
132033	40 mm nominal bore	Each	818.75	
132034	50 mm nominal bore	Each	946.14	
132035	65 mm nominal bore	Each	1205.15	
132036	80 mm nominal bore	Each	1484.98	
132037	100 mm nominal bore	Each	1779.71	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
132040	Providing and fixing ball valve (brass) of approved quality complete high or low pressure with plastic floats complete :			
132041	15 mm nominal bore	Each	227.46	
132042	20 mm nominal bore	Each	255.18	
132043	25 mm nominal bore	Each	422.88	
132044	32 mm nominal bore	Each	491.69	
132045	40 mm nominal bore	Each	567.67	
132046	50 mm nominal bore	Each	704.57	
132050	Providing and fixing gun metal non-return valve of 25 mm nominal bore approved quality (screwed end)			
132051	Horizontal	Each	242.42	
132052	Vertical	Each	753.48	
132060	Providing and fixing gun metal non- return valve of 32 mm nominal bore approved quality (screwed end)			
132061	Horizontal	Each	360.67	
132062	Vertical	Each	1115.47	
132070	Providing and fixing gun metal non- return valve of 40 mm nominal bore approved quality (screwed end)			
132071	Horizontal	Each	651.57	
132072	Vertical	Each	1464.62	
132080	Providing and fixing gun metal non- return valve of 50 mm nominal bore approved quality (screwed end)			
132081	Horizontal	Each	769.44	
132082	Vertical	Each	2221.31	
132090	Providing and fixing gun metal non- return valve of 65 mm nominal bore approved quality (screwed end)			
132091	Horizontal	Each	1408.73	
132092	Vertical	Each	3732.13	
132100	Providing and fixing gun metal non- return valve of 80 mm nominal bore approved quality (screwed end)			
132101	Horizontal	Each	1937.50	
132102	Vertical	Each	5011.87	
132110	Providing and fixing gun metal non-return valve of 100 mm nominal bore approved quality (screwed end)			
132111	Horizontal	Each	2576.21	
132112	Vertical	Each	5838.02	
132120	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main			
132121	15 mm nominal bore	Each	186.19	
132122	20 mm nominal bore	Each	194.19	
132123	25 mm nominal bore	Each	248.35	
132124	32 mm nominal bore	Each	316.90	
132125	40 mm nominal bore	Each	373.13	
132126	50 mm nominal bore	Each	455.02	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
132130	Providing and fixing unplasticised PVC connection pipe with brass unions : 30 cm length			
132131	15 mm nominal bore	Each	43.70	
132132	20 mm nominal bore	Each	50.63	
132140	Providing and fixing unplasticised PVC connection pipe with brass unions: 45 cm length			
132141	15 mm nominal bore	Each	56.28	
132142	20 mm nominal bore	Each	60.54	
132150	Providing and fixing CP Copper connection pipe with brass unions 30 cm length			
132151	15 mm nominal bore	Each	171.03	
132152	20 mm nominal bore	Each	211.39	
132160	Providing and fixing CP Copper connection pipe with brass unions 45 cm length			
132161	15 mm nominal bore	Each	226.74	
132162	20 mm nominal bore	Each	286.51	
132170	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :			
132171	100mm diameter	Each	202.87	
132172	150 mm diameter	Each	279.34	
132180	Providing and fixing C.P. brass bib cock, 15mm nominal bore, of approved quality conforming to IS:8931	Each	409.49	
132190	Providing and fixing C.P. brass long nose bib cock, 15 mm nominal bore, of approved quality conforming to IS standards and weighing not less	Each	403.21	
132200	Providing and fixing C.P. brass long body bib cock, 15 mm nominal bore, of approved quality conforming to IS standards and weighing not less	Each	382.91	
132210	Providing and fixing C.P. brass stop cock, 15 mm nominal bore, (concealed) of standard design and of approved make conforming to IS:8931	Each	351.82	
132220	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931	Each	401.82	
132230	Supplying and fixing brass chromium plated (Two in one) type wall mixer having either fixed type over head shower or telephonic shower as approved by Engineer In-charge including all components like adjustable legs, wall flange, rigid tube or flexible pipe etc. complete	Each	1335.63	
132240	Supplying and fixing brass chromium plated (Three-in- one) type wall mixer having fixed type over head shower and also having flexible type telephonic shower including all components like adjustable legs, rigid tube, flexible pipe etc. complete	Each	1660.26	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
132250	Supplying and fixing brass chromium plated (Two in one) type wall mixer SINGLE LEVER HOT AND COLD WATER MIXER having either fixed type over head shower or telephonic shower as approved by Engineer In-charge including all components like adjustable legs, wall flange, rigid tube or flexible pipe etc. complete	Each	1852.50	0.00
	C. I. / DUCTILE IRON PIPES AND SPECIALS			
133010	Laying in position centrifugally cast (spun) iron S&S or flanged pipes (excluding cost of pipe)	quintal	69.76	0.00
133020	Laying in position S&S or flanged C.I. special such as tees, bends, collars, tapers and caps etc.(excluding cost of specials)	quintal	127.20	0.00
133030	Providing and laying S&S C.I. standard specials such as tees, bends, collars, tapers, caps etc. (Heavy class)			
133031	Upto 300mm dia.	quintal	5707.90	0.00
133032	Over 300mm dia.	quintal	5812.43	
133040	Providing and laying flanged C.I. standard specials such as tees, bends, collars, tapers, caps etc., suitable for flanged jointing as per IS:1538 :			
133041	Upto 300 mm dia	quintal	5998.27	
133042	Over 300 mm dia	quintal	6000.04	
133050	Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536 : upto 300 mm dia.			
133051	80mm dia pipe.	metre	825.63	
133052	100 mm dia. pipe	metre	1115.68	
133053	125 mm dia. pipe	metre	1309.07	
133054	150 mm dia. pipe	metre	1659.53	
133055	200 mm dia. pipe	metre	2164.97	
133056	250 mm dia. pipe	metre	2372.50	
133057	300 mm dia. pipe	metre	4488.81	
133060	Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536 : above 300 mm dia.			
133061	350 mm dia. pipe	metre	5526.43	
133062	400 mm dia. pipe	metre	6348.70	
133063	450 mm dia. pipe	metre	7287.01	
133064	500 mm dia. pipe	metre	8398.76	
133065	600 mm dia. pipe	metre	10087.00	
133070	Providing and laying S&S centrifugally cast (spun) iron pipes (Class A) conforming to IS - 1536 :			
133071	80mm dia. pipe	metre	1020.18	
133072	100 mm dia. pipe	metre	1245.26	
133073	125 mm dia. pipe	metre	1450.68	
133074	150 mm dia. pipe	metre	1766.92	
133075	200 mm dia. pipe	metre	2197.91	
133076	250 mm dia. pipe	metre	3272.30	
133077	300 mm dia. pipe	metre	4345.00	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
133080	Providing and laying S&S Centrifugally Cast (Spun) Ductile Iron Pipes conforming to IS : 8329 of Class K 7 up to 500 mm dia			
133081	100mm dia Ductile Iron CLass K - 7 pipes	metre	1055.95	
133082	150mm dia Ductile Iron CLass K - 7 pipes	metre	1466.32	
133083	200mm dia Ductile Iron CLass K - 7 pipes	metre	1899.18	
133084	250mm dia Ductile Iron CLass K - 7 pipes	metre	2497.38	
133085	300mm dia Ductile Iron CLass K - 7 pipes	metre	3157.80	
133086	350mm dia Ductile Iron CLass K - 7 pipes	metre	3999.61	
133087	400mm dia Ductile Iron CLass K - 7 pipes	metre	4605.62	
133088	450mm dia Ductile Iron CLass K - 7 pipes	metre	5703.63	
133089	500mm dia Ductile Iron CLass K - 7 pipes	metre	6583.34	
133090	Providing and laying S&S Centrifugally Cast (Spun) Ductile Iron Pipes conforming to IS : 8329 of Class K 7 Above 500 mm dia			
133091	600mm dia Ductile Iron CLass K - 7 pipes	metre	8695.31	
133092	700mm dia Ductile Iron CLass K - 7 pipes	metre	11332.73	
133093	800mm dia Ductile Iron CLass K - 7 pipes	metre	14606.75	
133094	900mm dia Ductile Iron CLass K - 7 pipes	metre	18965.98	
133095	1000mm dia Ductile Iron CLass K - 7 pipes	metre	26528.54	
133100	Providing and laying S&S Centrifugally Cast (Spun) Ductile Iron Pipes conforming to IS : 8329 of Class K 9 up to 500 mm dia			
133101	100mm dia Ductile Iron CLass K - 9 pipes	metre	826.79	
133102	150mm dia Ductile Iron CLass K - 9 pipes	metre	1182.08	
133103	200mm dia Ductile Iron CLass K - 9 pipes	metre	1538.83	
133104	250mm dia Ductile Iron CLass K - 9 pipes	metre	2129.39	
133105	300mm dia Ductile Iron CLass K - 9 pipes	metre	2957.56	
133106	350mm dia Ductile Iron CLass K - 9 pipes	metre	3549.13	
133107	400mm dia Ductile Iron CLass K - 9 pipes	metre	4712.13	
133108	450mm dia Ductile Iron CLass K - 9 pipes	metre	5319.17	
133109	500mm dia Ductile Iron CLass K - 9 pipes	metre	7407.78	
133110	Providing and laying S&S Centrifugally Cast (Spun) Ductile Iron Pipes conforming to IS : 8329 of Class K 9 Above 500 mm dia			
133111	600mm dia Ductile Iron CLass K - 9 pipes	metre	11174.44	
133112	700mm dia Ductile Iron CLass K - 9 pipes	metre	11766.76	
133113	750mm dia Ductile Iron CLass K - 9 pipes	metre	14141.01	
133114	800mm dia Ductile Iron CLass K - 9 pipes	metre	15330.86	
133115	900mm dia Ductile Iron CLass K - 9 pipes	metre	17646.64	
133116	1000mm dia Ductile Iron CLass K - 9 pipes	metre	18894.25	
133120	Providing and laying Double Flanged (Screwed/Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS : 8329 up to 500 mm dia			
133121	100mm dia Ductile Iron Double Flanged	metre	2107.26	
133122	150mm dia Ductile Iron Double Flanged	metre	2928.74	
133123	200mm dia Ductile Iron Double Flanged	metre	3751.30	
133124	250mm dia Ductile Iron Double Flanged	metre	4924.94	
133125	300mm dia Ductile Iron Double Flanged	metre	6447.98	
133126	350mm dia Ductile Iron Double Flanged	metre	8194.26	
133127	400mm dia Ductile Iron Double Flanged	metre	9147.32	
133128	450mm dia Ductile Iron Double Flanged	metre	10557.66	
133129	500mm dia Ductile Iron Double Flanged	metre	11733.26	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
133130	Providing and laying Double Flanged (Screwed/Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS : 8329 Above 500 mm dia			
133131	600mm dia Ductile Iron Double Flanged	metre	17583.84	
133132	700mm dia Ductile Iron Double Flanged	metre	23422.90	
133140	Providing lead caulked joints to spun iron or C.I./ DI pipes and specials including testing of joints but excluding the cost of pig lead up to 400 mm dia			
133141	80mmdia pipe	Each	101.97	
133142	100 mm diameter pipe	Each	109.64	
133143	125 mm dia. pipe	Each	158.31	
133144	150 mm dia. pipe	Each	162.56	
133145	200 mm dia. pipe	Each	215.77	
133146	250 mm dia. pipe	Each	273.15	
133147	300 mm dia. pipe	Each	329.62	
133148	350 mm dia. pipe	Each	341.82	
133149	400 mm dia. pipe	Each	442.24	
133150	Providing lead caulked joints to spun iron or C.I./ DI pipes and specials including testing of joints but excluding the cost of pig lead Above 400 mm dia			
133151	450 mm dia. pipe	Each	494.39	
133152	500 mm dia. pipe	Each	523.94	
133153	600 mm dia. pipe	Each	702.24	
133160	Supplying pig lead at site of work	quintal	15182.43	
133170	Providing flanged joints to double flanged C.I./ D.I. pipes and specials including fittings, packings & testing of joints up to 400 mm dia			
133171	80 mm dia. pipe	Each	94.63	
133172	100 mm dia. pipe	Each	169.11	
133173	125 mm dia. pipe	Each	176.08	
133174	150 mm dia. pipe	Each	234.93	
133175	200 mm dia. pipe	Each	233.72	
133176	250 mm dia. pipe	Each	338.11	
133177	300 mm dia. pipe	Each	434.51	
133178	350 mm dia. pipe	Each	591.03	
133179	400 mm dia. pipe	Each	950.44	
133180	Providing flanged joints to double flanged C.I./ D.I. pipes and specials including fittings, packings & testing of joints Above 400 mm dia			
133181	450 mm dia. pipe	Each	1155.19	
133182	500 mm dia. pipe	Each	1233.90	
133183	600 mm dia. pipe	Each	1493.96	
	C.I. SLUICE VALVES AND FIXTURES			
133190	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. 80 mm dia. (the tail pieces if required will be paid separately)			
133191	Class I	Each	4171.87	
133192	Class II	Each	3603.39	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
133200	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. 100 mm dia (the tail pieces if required will be paid separately)			
133201	Class I	Each	5594.71	
133202	Class II	Each	4443.32	
133210	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. 125 mm dia (the tail pieces if required will be paid separately)			
133211	Class I	Each	6466.66	
133212	Class II	Each	5057.70	
133220	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. 150 mm dia (the tail pieces if required will be paid separately)			
133221	Class I	Each	7186.59	0.00
133222	Class II	Each	5993.37	0.00
133230	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. 200 mm dia (the tail pieces if required will be paid separately).			
133231	Class I	Each	14566.70	
133232	Class II	Each	9523.56	
133240	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. 250 mm dia (the tail pieces if required will be paid separately)			
133241	Class I	Each	21125.04	
133242	Class II	Each	10195.85	
133250	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. 300 mm dia (the tail pieces if required will be paid separately)			
133251	Class I	Each	26104.83	
133252	Class II	Each	12441.38	
	AIR VALVE AND WATER METER (BULK TYPE)			
133260	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately)			
133261	50 mm dia	Each	4104.09	
133262	80 mm dia	Each	5775.67	
133263	100 mm dia	Each	7504.45	
133270	Providing and fixing enclosed type water meter (bulk type) conforming to IS : 2373 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. (The tail pieces if required will be paid separately)			
133271	80 mm dia nominal bore	Each	3102.23	
133272	100 mm dia nominal bore	Each	4006.24	
133273	150 mm dia nominal bore	Each	6253.98	
133274	200 mm dia nominal bore	Each	6733.10	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
133280	Supplying, installing & fixing in position including field testing, domestic type water meter, horizontal inferential, single jet or multi jet, dry dial suitable upto 500C temperature, duly sealed against tampering, complete with couplings on both ends, manufactured by approved firms, confirming to Class B as per IS 779 with manufacturer's test certificate, guarantee certificate including cost of material & labour. The rate also includes obtaining Municipal approval as per local Municipal rules, if any			
133281	15 mm bore	Each	917.75	
133282	20 mm bore	Each	1504.37	
133283	25 mm bore	Each	2108.34	
133284	40 mm bore	Each	2950.40	
133290	Providing and fixing C.I. dirt box strainer for bulk type water meter with nuts, bolts, rubber insertions etc. complete conforming to IS : 2373			
133291	80 mm dia	Each	3478.23	
133292	100 mm dia	Each	4929.64	
133293	150 mm dia	Each	6427.20	
133294	200 mm dia	Each	8285.50	
133300	Providing and laying S&S C.I. Standard specials such as tees, bends, collars tapers and caps etc, suitable for flanged jointing as per IS : 1538			
133301	Upto 300 mm dia	Quintal	6375.76	
133302	Above 300 mm dia	Quintal	6977.80	
133310	Providing and laying S&S C.I. Standard specials suitable for mechanical jointing as per IS : 13382			
133311	Upto 300mm dia	Quintal	7101.70	
133312	Above 300mm dia	Quintal	6625.48	
133320	Providing and laying D.I. Specials of Class K - 12 suitable for push-on jointing as per IS : 9523			
133321	Upto 600mm dia	Quintal	10514.18	
133322	Above 600mm dia	Quintal	15871.02	
133330	Providing and laying D.I. Specials of Class K - 12 suitable for mechanical jointing as per IS : 9523			
133331	Upto 600mm dia	Quintal	11050.80	
133332	Above 600mm dia	Quintal	17671.35	
133340	Providing push-on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket			
133341	100mm dia pipes	Each	52.37	
133342	150mm dia pipes	Each	91.48	
133343	200mm dia pipes	Each	126.23	
133344	250mm dia pipes	Each	152.47	
133345	300mm dia pipes	Each	212.00	
133346	350mm dia pipes	Each	252.65	
133347	400mm dia pipes	Each	402.49	
133348	450mm dia pipes	Each	450.60	
133349	500mm dia pipes	Each	479.59	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
133350	Providing push-on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket. Above 500 mm dia			
133351	600mm dia pipes	Each	607.51	
133352	650mm dia pipes	Each	865.26	
133353	700mm dia pipes	Each	988.96	
133354	800mm dia pipes	Each	1118.88	
133355	900mm dia pipes	Each	1405.78	
133356	1000mm dia pipes	Each	1771.08	
133360	Providing and laying Double Flanged Pipe (screwed/welded) Centrifugally (Spun) Cast Iron, Class B (IS : 1536)			
133361	100mm dia C.I. Double Flanged Pipe	metre	1530.14	
133362	150mm dia C.I. Double Flanged Pipe	metre	2123.79	
133363	200mm dia C.I. Double Flanged Pipe	metre	2951.78	
133364	250mm dia C.I. Double Flanged Pipe	metre	4013.88	
133365	300mm dia C.I. Double Flanged Pipe	metre	4961.47	
133366	350mm dia C.I. Double Flanged Pipe	metre	6375.84	
133367	400mm dia C.I. Double Flanged Pipe	metre	7562.24	
133368	450mm dia C.I. Double Flanged Pipe	metre	10028.40	
133370	Providing and laying Double Flanged Pipe (screwed/welded) Centrifugally (Spun) Cast Iron, Class B (IS : 1536) Above 500 mm dia.			
133371	500mm dia C.I. Double Flanged Pipe	metre	12955.31	
133372	600mm dia C.I. Double Flanged Pipe	metre	20894.01	
133380	Disinfecting C.I./G.I/D.I/PVC water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in approved laboratory up to 400 mm dia.			
133381	80mm diameter C.I. pipe	100 m	368.06	
133382	100mm diameter C.I. pipe	100 m	484.82	
133383	125mm diameter C.I. pipe	100 m	609.01	
133384	150mm diameter C.I. pipe	100 m	737.54	
133385	200mm diameter C.I. pipe	100 m	997.62	
133386	250mm diameter C.I. pipe	100 m	1274.36	
133387	300mm diameter C.I. pipe	100 m	1449.18	
133388	350mm diameter C.I. pipe	100 m	1636.01	
133389	400mm diameter C.I. pipe	100 m	1839.45	
133390	Disinfecting C.I./G.I/D.I/PVC water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in approved laboratory Above 400 mm dia			
133391	450mm diameter C.I. pipe	100 m	2051.50	
133392	500mm diameter C.I. pipe	100 m	2279.50	
133393	600mm diameter C.I. pipe	100 m	2761.76	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
133400	Extra for every operation on item no. 133380 disinfecting the C.I. main by flushing with water containing bleaching powder at 0.5gms per litre of water and cleaning the same with fresh water, including getting the samples of water tested in the approved laboratory: up to 400 mm dia.			
133401	80mm diameter C.I. pipe	100 m	135.27	
133402	100mm diameter C.I. pipe	100 m	165.33	
133403	125mm diameter C.I. pipe	100 m	203.06	
133404	150mm diameter C.I. pipe	100 m	239.19	
133405	200mm diameter C.I. pipe	100 m	363.63	
133406	250mm diameter C.I. pipe	100 m	427.73	
133407	300mm diameter C.I. pipe	100 m	491.14	
133408	350mm diameter C.I. pipe	100 m	584.80	
133409	400mm diameter C.I. pipe	100 m	681.30	
133410	Extra for every operation over item no. 133380 disinfecting the C.I. main by flushing with water containing bleaching powder at 0.5gms per litre of water and cleaning the same with fresh water, including getting the samples of water tested in the approved laboratory: Above 400 mm dia.			
133411	450mm diameter C.I. pipe	100 m	783.67	0.00
133412	500mm diameter C.I. pipe	100 m	843.49	
133413	600mm diameter C.I. pipe	100 m	1106.91	
133420	Dismantling old CI/GI/WI/DI pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes at site lead up to 50 M: : up to 400 mm dia.			
133421	80mm diameter C.I. pipe	metre	74.48	
133422	100mm diameter C.I. pipe	metre	79.88	
133423	125mm diameter C.I. pipe	metre	84.98	
133424	150mm diameter C.I. pipe	metre	89.18	
133425	200mm diameter C.I. pipe	metre	99.69	
133426	250mm diameter C.I. pipe	metre	110.35	
133427	300mm diameter C.I. pipe	metre	119.44	
133428	350mm diameter C.I. pipe	metre	128.00	
133429	400mm diameter C.I. pipe	metre	136.37	
133430	Dismantling old CI/GI/WI/DI pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes at site lead up to 50 M: : Above 400 mm dia.			
133431	450mm diameter C.I. pipe	metre	160.93	
133432	500mm diameter C.I. pipe	metre	171.25	
133433	600mm diameter C.I. pipe	metre	190.83	
133440	Labour for cutting C.I. pipe with steel saw for each cut : up to 400 mm dia.			
133441	80mm diameter C.I. pipe	Each	28.57	
133442	100mm diameter C.I. pipe	Each	38.45	
133443	125mm diameter C.I. pipe	Each	53.64	
133444	150mm diameter C.I. pipe	Each	72.34	
133445	200mm diameter C.I. pipe	Each	96.50	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
133446	250mm diameter C.I. pipe	Each	119.61	
133447	300mm diameter C.I. pipe	Each	143.77	
133448	350mm diameter C.I. pipe	Each	166.88	
133449	400mm diameter C.I. pipe	Each	190.89	
133450	Labour for cutting C.I. pipe with steel saw for each cut above 400 mm dia.			
133451	450mm diameter C.I. pipe	Each	214.15	
133452	500mm diameter C.I. pipe	Each	239.21	
133453	600mm diameter C.I. pipe	Each	283.31	
133460	Disconnecting and taking out sluice valves, water hydrants etc in CI pipes	Each	56.53	
133470	Cutting of GI, WI, in true edge with steel saw;- (if not already covered in the item), for each cut			
133471	upto 40 mm dia.	Each	14.87	
133472	above 40 mm and upto 80 mm dia.	Each	29.01	
133473	above 80 mm and upto 125 mm dia.	Each	45.72	
133474	above 125 mm and upto 200 mm dia.	Each	75.96	
133475	above 200 mm and upto 250 mm dia.	Each	92.84	
133476	above 250 mm and upto 300 mm dia.	Each	116.34	
133480	Rethreading/reconditioning ends of old GI pipes	Each	11.11	
	P.T.M.T. FITTINGS			
134010	Providing and fixing PTMT bib cock of approved quality and colour			
134011	15mm nominal bore, 86mm long. Weighing not less than 88 gms	Each	136.26	
134012	15mm nominal bore, 90mm long. Weighing not less than 93 gms	Each	167.04	
134013	15mm nominal bore, 122mm long. Weighing not less than 99 gms	Each	248.05	
134014	15mm nominal bore, 165mm long. Weighing not less than 110 gms	Each	225.98	
134020	Providing and fixing PTMT stop cock of approved quality and colour			
134021	15mm nominal bore, 86mm long. Weighing not less than 88 gms	Each	143.81	
134022	20mm nominal bore, 89mm long. Weighing not less than 88 gms	Each	199.56	
134023	Concealed stop cock, 15mm nominal bore, 108mm long. Weighing not less than 108gms	Each	232.95	
134030	Providing and fixing PTMT pillar cock of approved quality and colour			
134031	15mm nominal bore, 107mm long. Weighing not less than 110 gms	Each	221.83	
134032	15mm nominal size, 125 mm long foam flow. Weighing not less than 120 gms	Each	249.71	
134040	Providing and fixing PTMT push cock of approved quality and colour			
134041	15mm nominal bore, 98mm long. Weighing not less than 75 gms	Each	133.35	
134042	15mm nominal size, 80 mm long. Weighing not less than 46 gms	Each	129.38	
134050	Providing and fixing PTMT grating of approved quality and colour			

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
134051	Circular type 100 mm nominal dia	Each	45.10	
134052	Circular type 125 mm nominal dia with 25mm waste hole	Each	55.55	
134053	Rectangular type with openable circular lid. 150mm nominal size square, 100mm diameter of the inner hinged round grating	Each	137.24	
134060	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./H.P.H.D. plastic ball			
134061	15mm nominal bore, 105mm long. Weighing not less than 138 gms	Each	192.90	
134062	20mm nominal bore, 120mm long. Weighing not less than 198 gms	Each	312.05	
134063	25mm nominal bore, 152mm long. Weighing not less than 440 gms	Each	582.77	0.00
134064	40mm nominal bore, 206mm long. Weighing not less than 690 gms	Each	1029.08	
134065	50mm nominal bore, 242mm long. Weighing not less than 1240 gms	Each	1421.57	
134070	Providing and fixing PTMT angle stop cock 15mm nominal bore. Weighing not less than 85 gms	Each	178.55	
134080	Providing and fixing PTMT swiveling shower, 15mm nominal bore. Weighing not less than 40 gms	Each	113.55	
134090	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements. Weighing not less than 106 gms	Each	144.13	
134100	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour			
134101	15 mm nominal bore with 30cm length	Each	58.91	
134102	15 mm nominal bore. with 45cm length	Each	61.00	
134110	Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour			
134111	15 mm nominal bore. Weighing not less than 32gms	Each	41.83	
134112	20 mm nominal bore. Weighing not less than 40gms	Each	55.32	
134113	25 mm nominal bore. Weighing not less than 62gms	Each	73.62	
	HYDRANTS			
135010	Providing and fixing cast iron water hydrant one way for carriage washing lines including cost of jointing material complete as per approved drawing {Drg No. 8373/M.(NR) used for analysis}	Each	1164.15	
135020	Providing and fixing cast iron water hydrant two way for carriage washing lines including cost of jointing material complete as per approved drawing {Engg drawing no 250. (NR), used for analysis}	Each	1280.65	
135030	Providing and fixing cast iron spindle fire hydrant 65 mm outlet, complete including cost of jointing material complete as (bolts, nuts and rubber insertions etc)	Each	2120.88	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
135040	Supplying, fitting & fixing in position C.I. Fire Hydrant stand post type ISI marked (IS:908) containing stand post column having single spout (outlet), duck foot bend, inlet 80 mm dia. with one sluice valve, surface box etc. complete in all respect	Each	7108.92	
	MANHOLES			
136010	Constructing masonry Chamber 30x30x50 cm, inside with 7.5 class designation brick work with FPS Bricks in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement :5 fine sand:10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as per standard design	Each	581.08	0.26
136020	Constructing masonry Chamber 60x60x75 cm, inside with 7.5 class designation brick work with FPS Bricks in cement mortar 1:4 (1 cement :4 coarse sand) for sluice valve, with C.I. surface box 100mm. top diameter and 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement :5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design	Each	2551.81	1.44
136030	Constructing masonry Chamber 90x90x100 cm, inside with 7.5 class designation brick work with FPS Bricks in cement mortar 1:4 (1 cement :4 coarse sand) for sluice valve, with C.I. surface box 100 mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement :5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design.	Each	4189.39	2.48

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
136040	Constructing masonry Chamber 120x120x100 cm, inside with 7.5 class designation brick work with FPS Bricks in cement mortar 1:4 (1 cement :4 coarse sand) for sluice valve, with C.I. surface box 100 mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement :5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design.	Each	5082.32	3.50
136050	Constructing masonry Chamber 60x60x75 cm, inside with 7.5 class designation brick work with FPS Bricks in cement mortar 1:4 (1 cement :4 coarse sand) for fire hydrants, with C.I. surface box 350x350 mm. top and 165 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement :5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design.	Each	2469.71	1.30
136060	Constructing masonry Chamber 60x45x50 cm, inside with 7.5 class designation brick work with FPS Bricks in cement mortar 1:4 (1 cement :4 coarse sand) for water meter complete with C.I. double flap surface box 400x200x200mm. (inside) with locking arrangement and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement :5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design.	Each	2290.63	1.34
136070	Providing and filling sand of grading zone IV or coarser grade all round the G.I./C.I./D.I. pipes in external work. Upto 100 mm dia.			
136071	15 mm dia. Pipe	metre	33.17	
136072	20 mm dia. Pipe	metre	33.62	
136073	25 mm dia. Pipe	metre	34.51	
136074	32 mm dia. Pipe	metre	35.41	
136075	40 mm dia. Pipe	metre	35.86	
136076	50 mm dia. Pipe	metre	37.20	
136077	65 mm dia. Pipe	metre	58.71	
136078	80 mm dia. Pipe	metre	60.51	
136079	100 mm dia. Pipe	metre	64.09	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
136080	Providing and filling sand of grading zone IV or coarser grade all round the G.I./C.I./D.I. pipes in external work above 100 mm dia.			
136081	150 mm dia pipe	metre	95.47	
136082	200 mm dia pipe	metre	102.64	
136083	250 mm dia pipe	metre	107.12	
136084	300 mm dia pipe	metre	110.71	
136085	450 mm dia pipe	metre	147.46	
136086	600 mm dia pipe	metre	217.38	
136090	Boring with 100mm diameter casing pipe for hand pump/tube well in all soils except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered			
136091	Upto 6 metres depth	metre	184.46	
136092	Beyond 6 m and upto 12 m depth	metre	217.47	
136093	Beyond 12 m and upto 18 m depth	metre	251.86	
136094	Beyond 18 m and upto 30 m depth	metre	357.12	
136100	Providing and placing in position filters of 40 mm diameter G.I. pipe with brass strainer of approved quality	metre	575.11	
136110	Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well	metre	243.90	
136120	Providing and placing in position hand pump of approved quality for 40 mm diameter G.I. pipe complete with all accessories	Each	930.25	
136130	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (new work)			
136131	15mm nominal bore	Each	97.78	
136132	20mm nominal bore	Each	120.63	
136133	25mm nominal bore	Each	134.40	
136134	32mm nominal bore	Each	168.80	
136135	40mm nominal bore	Each	206.23	
136136	50mm nominal bore	Each	305.53	
136137	65mm nominal bore	Each	505.45	
136138	80 mm nominal bore	Each	598.81	
136140	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required			
136141	15 mm nominal bore	Each	194.80	
136142	20 mm nominal bore	Each	217.65	
136143	25 mm nominal bore	Each	231.41	
136144	32 mm nominal bore	Each	265.82	
136145	40 mm nominal bore	Each	303.25	
136146	50 mm nominal bore	Each	437.82	
136147	65 mm nominal bore	Each	637.74	
136148	80 mm nominal bore	Each	731.10	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
136150	Providing and placing on terrace/staging (at all heights) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	litre	8.03	
136160	Cutting holes up to 30x30cm in walls including making good the same :	Each	82.14	0.03
136170	Cutting holes up to 15x15cm in RCC 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 20mm nominal size) including finishing complete so as to make it leak proof	Each	94.93	0.01
136180	Making chases up to 7.5x7.5cm in walls including making good and finishing with matching surface after housing G.I. pipe etc.	metre	38.15	0.01
136190	Making hole up to 20x20 cm and embedding pipes up to 150mm diameter in masonry and filling with cement concrete 1:3:6 (1 cement :3 coarse sand 6 graded stone aggregate 20mm nominal size) including disposal of malba	Each	40.93	0.02
	MISCELLANEOUS			
137010	Supplying, fabricating and fixing M.S. flat angle iron pipe clamps, stays, etc. including drilling holes, welding (if any) including nuts and bolts etc. including all lifts	Kg	93.16	
137020	Supplying and jointing cast iron concussion relief (pressure) valves "Spring relief type", with gun metal fittings with casing lever complete in all respects as per specifications			
137021	80 mm bore	Each	2611.83	
137022	100 mm bore	Each	3307.87	
137030	Supplying and jointing expansion joint with cast iron spigot, socket and flanged, accurately machined mild steel guard bolts. Gland & socket duly brushed with gun metal etc. complete in all respects conforming to appropriate Indian Standard			
137031	80 mm bore	Each	483.73	
137032	100 mm bore	Each	656.94	
137033	150 mm bore	Each	929.51	
137034	200 mm bore	Each	1130.40	
137035	250 mm bore	Each	1550.71	
137036	300 mm bore	Each	2082.68	
137037	350 mm bore	Each	2574.87	
137040	Supplying and jointing-in-position cast iron flanged, end foot valve with strainer (of cast iron/galvanized iron) swing type tested to withstand a pressure of 2 Kgs/cm ² complete in all respects, conforming to I.S. 4038			
137041	80 mm size	Each	1109.78	
137042	100 mm size	Each	1430.50	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
137043	150 mm size	Each	1800.64	
137050	Supplying and jointing in position cast iron flanged end foot valve with strainer, lift type, tested to withstand a pressure of 20 Kgs/cm ² , complete in all respects, conforming to I.S. 4038			
137051	150 mm size	Each	1800.64	
137052	200 mm size	Each	2124.65	
137060	Supplying and fixing on water tanks etc. slotted WATER indicator board with M.S. Pulley ball bearing type phosphorus bronze twisted wire, wood float etc. complete in all respect and in metric units. The rate includes fixing at all heights			
137061	Up to 1.25 m long	Each	1324.11	
137062	More than 1.25 m long	Each	1744.57	
137070	Extra for supplying and fixing hand wheel in place of spindle cap. For Sluice valves. (If not covered by rates of original Item)			
137071	For sluice valves from 50 mm upto 80 mm bore	Each	214.88	
137072	For sluice valves from 100 mm and 125 mm bore	Each	276.44	
137073	For sluice valves for 150 mm bore	Each	384.46	
137074	For sluice valves of 200 mm & 250 mm bore	Each	393.75	
137075	For sluice valves of 300 mm bore	Each	519.19	
137080	Supplying, fitting and fixing float valve of cistern complete with polythene ball as required including all lead for replacement work. This include all work for removing of existing float valve with connection, delivery of released materials to SE/ Works store and fixing of screw, coupling, back nuts etc.			
137081	15 mm dia pipe	Each	95.82	
137082	20mm dia pipe	Each	157.27	
137083	25mm dia pipe	Each	205.00	
137090	Supplying, fitting and fixing polythene ball only as required for cistern including all lead for:15mm dia float valve for replacement work. This includes removal of existing ball, if required and all works required for fitting & fixing ball			
137091	15 mm dia pipe	Each	39.07	
137092	20mm dia pipe	Each	53.43	
137093	25mm dia pipe	Each	66.79	
137100	Supplying, laying, jointing, fitting and fixing in position R.C.C. spun pipes and collars class NP-2 conforming to I.S.458 with cement sand mortar (1:3) on the cement concrete bed as required to maintain proper grade & alignment including cutting trenches and refilling the same with all lead. (Extra Payment of bed concrete to be made as provided)			
137101	150mm dia	metre	291.43	0.01
137102	200mmdia	metre	338.46	0.01
137103	250mm dia	metre	389.91	0.01
137104	300mm dia	metre	504.84	0.01
137105	400mm dia	metre	708.75	0.02
137106	450mm dia	metre	1116.24	0.02

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
137107	500mm dia	metre	1040.63	0.03
137110	Cleaning thoroughly inside/outside of old C.I. Pipes and specials, removing rust, incrustations etc. and dipping in hot Angus Smith's solution. All materials shall be as per relevant I.S. Specifications	Sqm	25.33	0.00
	RATES FOR LABOUR ONLY			
138010	Laying C.I. Pipes including i) Cutting pipes and drilling holes as and where required ii) Fitting up specials like collars, tees, valves, bends etc. as and where required iii) Lead upto 100 m iv) Keeping pipes level or in prescribed grade, aligning pipes, caulking joints v) Refilling and ramming trench after the pipes have been tested to required pressure			
138011	400 mm dia	metre	343.40	
138012	350 mm dia	metre	298.31	
138013	300 mm dia	metre	270.89	
138014	250 mm dia	metre	237.96	
138015	200 mm dia	metre	204.86	
138016	150 mm dia	metre	174.25	
138017	125 mm dia	metre	154.40	
138018	100 mm dia	metre	133.79	
138019	80 mm dia	metre	115.09	
138020	Laying G.I. or polythene / CI / DI / Concrete or alike materials, pipes including -i) Fitting sockets, cutting, pipe threading and drilling holes as and where required. ii) Fitting up specials like tees, valves, bends, nipples, water meters etc. as and where required. iii) Lead upto 100 mm iv) Keeping pipes level or in prescribed grade, aligning pipes, caulking joints etc. v) Refilling and ramming trench complete after the pipes have been tested to required pressure			
138021	15 mm dia.	metre	59.80	
138022	20 mm dia.	metre	61.61	
138023	25 mm dia.	metre	63.31	
138024	32 mm dia.	metre	64.49	
138025	40 mm dia.	metre	75.69	
138026	50 mm dia.	metre	84.84	
138027	65 mm dia.	metre	100.02	
138028	80 mm dia.	metre	111.30	
138029	100 mm dia.	metre	123.58	
138030	Laying G.I. or polythene / CI / DI / Concrete or alike materials, pipes including - i) Fitting sockets, cutting, pipe threading and drilling holes as and where required. ii) Fitting up specials like tees, valves, bends, nipples, water meters etc. as and where required iii) Lead upto 100 mm iv) Keeping pipes level or in prescribed grade, aligning pipes, caulking joints etc. v) Refilling and ramming trench complete after the pipes have been tested to			
138031	125 mm dia.	metre	165.68	
138032	150 mm dia.	metre	186.90	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
138040	Hoisting, fitting and fixing in position plastic moulded water storage tank including making connection of intake, delivery, outlet and overflow .pipes etc. with all lead and lift upto all stories. Cost of tanks/fitings to be paid separately			
138041	200 ltr capacity tank	Each	529.82	
138042	500 ltr capacity tank	Each	581.14	
138043	1000 ltr capacity tank	Each	984.54	
138044	2000 ltr capacity tank	Each	1222.32	
138045	2500 ltr Capacity tank	Each	1378.93	
138046	5000 ltr Capacity tank	Each	1899.75	
138047	10000 ltr Capacity tank	Each	2449.02	
138050	Taking out existing OH G.I. Tank & depositing the same to railway store with lead upto 100 m and all descent			
138051	237.50-250 ltr capacity	Each	581.14	
138052	450-500 ltr capacity	Each	728.69	
138053	910-1000 ltr capacity	Each	984.54	
138054	1820 -2000 ltr capacity	Each	1445.68	
138060	Taking out existing OH plastic moulded water storage tank & depositing the same to railway store with lead upto 100 m and all descent			
138061	200 ltrs capacity tank	Each	487.17	
138062	500 ltrs capacity tank	Each	549.82	
138063	1000 ltrs capacity tank	Each	938.88	
138064	2000 ltrs capacity tank	Each	1181.94	
138065	2500 ltrs capacity tank	Each	1280.05	
138066	5000 ltrs capacity tank	Each	1664.10	
138067	7500 ltrs capacity tank	Each	1768.77	
138068	10000 ltrs capacity tank	Each	2303.54	
138070	Taking out old C.I./G.I. Pipes including specials with lead upto 100m and stacking at nominated place including all excavation, refilling and making good the surface, as required			
138071	400mm dia	metre	307.32	
138072	350mm dia	metre	296.91	
138073	300mm dia	metre	232.57	
138074	250mm dia	metre	199.89	
138075	200mm dia	metre	166.54	
138076	150mm dia	metre	128.23	
138077	125mm dia	metre	116.77	
138078	100mm dia	metre	95.26	
138079	80mm dia.	metre	78.12	
138080	Taking out old C.I./G.I. Pipes and relaying the same including followings : i) Taking out & refixing of specials like sockets, bends, tees, valves etc. with cutting and threading of pipes as required. ii) Jointing of pipes as required. iii) Fixing pipe securely to wall, post or any other structure with necessary M.S. hook / clamp / rod / flat, nails etc. with all lead			
138081	15 mm to 25 mm dia	metre	72.82	
138082	Above 25 mm dia and upto 50 mm	metre	85.20	
138083	Above 50 mm dia and upto 100 mm	metre	119.35	

Item No.	Description	Unit	Rate (Rs.)	Cement Qty.(qtl.)
138084	Above 100 mm dia and upto 150 mm	metre	150.95	
138085	Above 150 mm dia and upto 450 mm	metre	196.14	
138090	Cleaning old C.I./G.I. Pipes with all lead and lift etc.			
138091	15 mm dia & upto 80 mm dia	metre	13.53	
138092	Above 80 mm dia & upto 150 mm dia	metre	22.18	
138093	Above 150 mm dia & upto 250 mm dia	metre	30.82	
138094	Above 250 mm dia & upto 300 mm dia	metre	37.21	
138095	Above 300 mm dia & upto 400 mm dia	metre	42.47	
138100	Extra for laying pipes under track			
138101	Upto 80 mm dia	metre	48.12	
138102	Above 80 mm dia & upto 150 mm dia	metre	66.20	
138103	Above 150 mm dia & upto 250 mm dia	metre	83.68	
138104	Above 250 mm dia & upto 300 mm dia	metre	119.41	
138110	Extra for laying or taking out C.I./GI /WI / DI water main or underground drain pipe along side running track where adequate precaution are to be taken and un - interrupted work is not possible			
138111	Upto 80 mm dia	metre	42.30	
138112	Above 80 mm dia & upto 150 mm dia	metre	68.76	
138113	Above 150 mm dia & upto 250 mm dia	metre	81.98	
138114	Above 250 mm dia	metre	108.44	
138120	Cleaning of overhead and underground water tanks incl. scrubbing, disinfection with bleaching powder			
138121	For Tanks capacity upto 5000 litres	litre	0.33	
138122	For Tanks capacity over 5000 litres	litre	0.28	
	New Items To Be Added By Zonal Railways			
139010				
139020				
139030				
139040				
139050				
139060				
139070				
139080				