

CHAPTER NO. 30

SANITARY INSTALLATIONS

Notes :-

- (i) All the labour rates provided under this chapter includes the carriage of material within a radius of 5km of the site of work.
- (ii) The labour as well as through rates provided under this chapter include the wastage and breakage of various material during construction
- (iii) Provision has been made under this chapter for sanitary fittings of best indian make to the approval of the Engineer-in-charge. In this connection the Superintending Engineer will circulate from time to time the list of fittings of best Indian manufacture
- (iv) Separate rates have been provided for different type of fittings, pipes and specials for different sizes.

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
SANITARY FITTINGS						
(A)	Water closet suites					
30.1	Providing and fixing in position Chinaware Indian type water closet sizes 580mm (to the approval of the Engineer-in-charge)suite-consisting of pair of Chinaware foot rest, 10 ltr. PVC flushing cistern supported on angle iron bracket including cost of long bend 32 mm dia complete in all respect and to the entire satisfaction of engineer in charge.	each	1076.82	2964.61	1184.50	3072.29
30.2	Providing and fixing in position Chinaware Indian Orisa water closet sizes 580mm (to the approval of the Engineer-in-charge) suite-consisting of 10 ltr. PVC flushing cistern supported on angle iron bracket including cost of long bend 32 mm dia complete in all respect and to the entire satisfaction of engineer in charge.	each	1076.82	3592.85	1184.50	3700.53
30.3	Providing and fixing in position Chinaware Anglo Indian water closet with P trap or S trap (to the approval of the Engineer-in-charge) suite-consisting of 10 ltr. PVC flushing cistern ISI marked supported on angle iron bracket, short bend 32 mm dia including cost of solid white cover complete in all respect and to the entire satisfaction of engineer in charge.	each	1076.82	5040.78	1184.50	5148.46

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
30.4	Providing and fixing in position Chinaware European type water closet P trap or S trap (to the approval of the Engineer-in-charge) suite-consisting of 10 ltr. PVC flushing cistern supported on angle iron bracket, short bend 32 mm dia including cost of solid white cover complete in all respect and to the entire satisfaction of engineer in charge.	each	1076.82	3665.30	1184.50	3772.98
30.5	Providing and fixing in position Chinaware European type water closet Suit syphonic type with P trap or S trap (to the approval of the Engineer-in-charge) suite-consisting of 10 ltr. PVC flushing cistern including cost of solid white cover complete in all respect and to the entire satisfaction of engineer in charge.					
(A)	Single trap syphonic W.C. suite white with 'P' or 'S' trap	each	1076.82	7298.54	1184.50	7406.22
(B)	Double trap syphonic W.C. suit white with 'P' or 'S' trap	each	1076.82	9132.90	1184.50	9240.58
30.6	Extra for providing and fixing 10 litres capacity Chinaware low level flushing cistern with PVC internal fitting, instead of 10 litres capacity PVC flushing cistern.	each	---	786.15	---	786.15
30.7 A	Extra for providing and fixing C.P. Brass long flush bend 32mm instead of PVC long bend.	each	---	377.63	---	377.63
30.7 B	Extra for providing and fixing C.P. Brass short flush bend 32mm instead of PVC short bend.	each	---	169.36	---	169.36
30.8	Providing and fixing jet spray with 2'-6" long PVC pipe.					
	a With C.P. Brass nut	each	128.06	388.96	140.87	401.77
	b With UPVC nut	each	128.06	356.93	140.87	369.74
30.9	Providing and fixing plastic hygenic seat with lid complete.					
	(a) White plastic hygenic seat with lid complete	each	128.06	676.20	140.87	689.01
	(b) Black plastic hygenic seat with lid complete	each	128.06	485.10	140.87	497.91

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
30.10	Providing and fixing in position Chinaware wall hunged European type water closet Suit single syphonic type with P trap or S trap (to the approval of the Engineer-in-charge) suite consisting of with or without 10 ltr. chinaware matching flushing cistern and solid cover complete in all respect and to the entire satisfaction of engineer in charge.					
	a Chinaware wall mounted E W.C. type suite single syphonic matching chinaware cistern 10 ltr. Capacity and P.V.C cover.	each	1076.82	8646.57	1184.50	8754.25
	b Chinaware wall mounted E.W.C type suite single syphonic without cistern and matching P.V.C cover.	each	1076.82	5519.11	1184.50	5626.79
30.11	Providing and fixing in position Metropole flush valve dual flow (Concealed body) with control cock operation plate 32mm size C.P. Brass.	each	102.43	2677.17	112.67	2687.41
30.12	Providing and fixing in position Grab Bar Jaquar make vista range or equivalent fixed in to wall with C.P brass screws complete in all respects including cutting and making good the walls etc.					
	(a) 300 mm	each	64.02	865.05	70.42	871.45
	(b) 450 mm	each	64.02	979.48	70.42	985.88
	(c) 600 mm	each	64.02	1093.92	70.42	1100.32
30.13	Blank					
30.14	Blank					
B	- URINALS					
30.15	Providing & fixing in position best Indian make (to be approval of the Engineer-in-charge) vitreous Chinware white flat back or angular lipped front urinal size 440 x 315 x 265 mm C.P. brass flexible tube connection 450 mm long.	each	595.88	1527.36	655.47	1586.95
30.16	Blank					
30.17	Blank					

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
30.18	Blank					
30.19	Extra for providing and fixing G.I. 32mm waste pipe for urinal.	each	51.24	432.30	56.36	437.42
30.20	Extra for providing and fixing PVC 32mm waste pipe upto floor level and plumber joint.	each	128.06	185.28	140.87	198.09
30.21	Providing and fixing in position best Indian make vitreous Chinaware white large flat back or angular lipped front urinal 610 mm high (610 mm x 400 mm x 380mm) consisting of C.P. waste 32 mm dia C.P. brass spreader, complete.	each	794.51	3818.80	873.96	3898.25
30.22	Blank					
30.23	Blank					
30.24	Blank					
30.25	Providing and fixing in position best Indian make vitreous Chinaware white stall urinal 1140 mm high consisting of consisting of C.P. waste 32 mm dia, C.P. brass spreader, C.P. brass flexible tube connection 450 mm long.	each	794.51	6980.76	873.96	7060.21
30.26	Extra cost for pastel colour instead of white W.C. vitreous fixtures.					
	(a) Chinaware Indian type water closet sizes 580mm	each	---	863.51	---	863.51
	(b) Chinaware Indian Orisa water closet sizes 580mm	each	---	1209.05	---	1209.05
	(c) Chinaware Anglo Indian water closet with P trap or S trap	each	---	2158.78	---	2158.78
	(d) Chinaware European type water closet P trap or S trap	each	---	1402.26	---	1402.26
	(e) Chinaware European type water closet Suit syphonic type with P trap or S trap	each	---	3421.95	---	3421.95
	(f) Chinaware wall mounted E W.C. type suite single syphonic matching chinaware cistern 10 ltr. Capacity and P.V.C cover.	each	---	3880.14	---	3880.14

Sr. No.	Description		Unit	Plains		Sub-Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(g)	Chinaware wall mounted E.W.C type suite single syphonic without cistern and matching P.V.C cover.	each	---	2160.04	---	2160.04
	(h)	Vitreous Chinaware automatic flushing cistern 10 Litres capacity including PVC fittings.	each	---	937.79	---	937.79
	(i)	Chinaware wall mounted E.W.C type suite single syphonic without cistern and matching P.V.C cover.	each	---	505.39	---	505.39
30.27	Extra cost for pastel colour instead of white Urinals vitreous fixtures.						
	(a)	Chinaware white flat back or angular lipped front urinal size 44 x 31.50 x 26.50 mm	each	---	300.21	---	300.21
	(b)	Chinaware white large flat back or angular lipped front urinal 610 mm high (610 mm x 400 mm x 380mm)	each	---	1296.53	---	1296.53
	(c)	Chinaware Anglo Indian water closet with P trap or S trap	each	---	3146.91	---	3146.91
30.28	Extra cost for pastel colour instead of white vitreous Chinaware Lavatory suites.						
	(a)	Lavatory suites Size 450mmx300mm	each	---	325.39	---	325.39
	(b)	Lavatory suites Size 550mmx400mm	each	---	383.93	---	383.93
	(c)	Lavatory suites Size 630mmx450mm	each	---	551.97	---	551.97
	(d)	Lavatory suites Size 660mmx460mm	each	---	802.47	---	802.47
	(e)	Lavatory suites (with full anti-splashrim) Size 510mmx400mm	each	---	415.39	---	415.39
	(f)	Lavatory suites (with full anti-splashrim) Size 530mmx430mm	each	---	519.24	---	519.24
	(g)	Lavatory suites (with full anti-splashrim) Size 610mmx510mm	each	---	865.40	---	865.40
	(h)	Lavatory suites (with full anti-splashrim) Size 630mmx450mm	each	---	3146.91	---	3146.91
	(i)	Lavatory suites (with full anti-splashrim) Size 630mmx510mm	each	---	3461.60	---	3461.60
	(j)	Lavatory suites (with full anti-splashrim) Size 690mmx550mm	each	---	4090.98	---	4090.98

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
30.29	Blank					
30.30	Providing and fixing vitreous Chinware automatic flushing cistern 10 Litres capacity including PVC fittings and brackets complete.	each	128.06	1918.94	140.87	1931.75
30.31	Providing and fixing PVC automatic flushing cistern 10 Litres capacity including PVC fittings and brackets complete.	each	128.06	1132.78	140.87	1145.59
30.32	Providing and fixing accessory fittings in PVC automatic flushing cistern 10 Litres capacity complete.	each	128.06	780.33	140.87	793.14
30.33 A	Providing and fixing PTMT 15 mm Urinal spreader size 95x69x100 mm with 1/2" BSP thread and shapes, weighing not less than 60gms.	each	32.02	164.76	35.22	167.96
30.33 B	Providing and fixing PTMT urinal cock 15 mm nominal bore, 80mm long. 42 mm high and 30mm wide with BSP female threads weighing not less than 48gms of approved quality and colour.	each	32.02	135.01	35.22	138.21
30.34	Extra for Providing and fixing standard size C.P brass flush pipe complete with fittings instead of G.I flush pipe 600mm long to the wash basin or urinals complete.		---	-66.37	---	-66.37
30.35	Blank					
30.36	Providing and fixing partitions for different type of urinals.					
	A Marble Partition					
	i 15 to 20 mm thick Dungri marble partitions size 375mm x 750mm	each	375.07	1194.41	412.58	1231.92
	ii 15 to 20 mm thick Grenite stone partitions size 375mm x 750mm	each	139.62	1148.92	153.58	1162.88
	B Vitreous white Chinaware Partition					
	i Small partitions size 680mm x 300mm	each	139.62	1053.94	153.58	1067.90
	ii Large partitions size 835mm x 355mm	each	139.62	2714.36	153.58	2728.32

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
(C)	Lavatory suites					
30.37	Providing and fixing in position best Indian make white ordinary lavatory suites consisting of C.P. brass waste 32mm dia, pair of angle iron bracket with one C.P. brass tap complete.					
	(i) Size 450mmx300mm	each	1094.95	2687.86	1204.45	2797.36
	(ii) Size 550 mm x 400 mm	each	1094.95	2794.29	1204.45	2903.79
	(iii) Size 630 mm x 450 mm	each	1094.95	3099.82	1204.45	3209.32
	(iv) Size 660 mm x 460 mm	each	1094.95	3555.26	1204.45	3664.76
30.38	Providing and fixing in position best Indian make lavatory suites (with full anti-splashrim in vitreous Chinaware consisting of C.P. brass waste 32mm dia, pair of angle iron bracket with one C.P. brass tap complete.					
	(i) Size 510mm x 400mm	each	1094.95	2794.29	1204.45	2903.79
	(ii) Size 530mm x 430mm	each	1094.95	2983.09	1204.45	3092.59
	(iii) Size 610mm x 510mm	each	1094.95	3612.48	1204.45	3721.98
	(iv) Size 630mm x 450mm	each	1094.95	7760.68	1204.45	7870.18
	(v) Size 630mm x 510mm	each	1094.95	8332.84	1204.45	8442.34
	(vi) Size 690mm x 550mm	each	1094.95	9477.17	1204.45	9586.67
30.39	Providing and fixing in position best Indian make chromium plated brass 2nd tap for lavatory suite.	each	35.29	618.90	38.82	622.43
30.40	(a) Providing and fixing in position best Indian make C.P brass basin mixer complete instead of pillar tap.	each	141.16	1596.75	155.28	1610.87
	(b) Providing and fixing in position best Indian make C.P. brass three tap holes mixer with pop up waste instead of one No. pillar tap and C.P. brass waste Jaquar or equivalent make.	each	93.16	2403.57	102.48	2412.89
30.41	Providing and fixing in position best Indian make C.P elbow action pillar tap or C.P elbow action bib cock.	each	93.16	1008.62	102.48	1017.94

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
30.42	Providing and fixing in position 32 mm dia G.I waste pipe embedded in wall 2.8 mm thick upto floor level including cost of wipped solder joint etc. complete as required by the Engineer in charge.	each	227.37	745.75	250.11	768.49
30.43	Providing and fixing vitreous chinaware standard pedestal for wash basin.					
	a Vitreous chinaware standard white pedestal for wash basin.	each	56.46	937.59	62.11	943.24
	b Extra cost for pastel colour instead of white vitreous Chinaware pedestal for wash basin.	each	---	484.63	---	484.63
30.44 A	Providing and fixing in position best Indian make chromium plated brass, Bottle trap 32mm dia with 40 mm seal .	each	56.46	831.17	62.11	836.82
30.44 B	Providing and fixing PTMT Bottle trap 31mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 260gms for Wash basin and sink.	each	56.46	388.32	62.11	393.97
(D) Sinks						
30.45	Blank					
30.46	Providing and fixing in position best Indian make vitreous Chinaware sinks consisting of C.P. brass waste 40mm with rubber plug and C.P. brass chain and a pair of C.I. brackets complete.					
	(a) Size 600 mm x 450 mm x 200 mm	each	909.44	4239.44	1000.38	4330.38
	(b) Size 600 mm x 450 mm x 250 mm	each	909.44	4343.57	1000.38	4434.51
30.47	Providing and fixing in position best quality stainless steel sinks with complete fitting.					
	(a) Size 600 mm x 450 mm x 200 mm (Net size excluding flat edge)	each	909.44	6458.30	1000.38	6549.24
30.48	Blank					

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			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
30.49	Providing and fixing in position best Indian make vitreous Chinaware drainage board with iron bracket for building into wall including painting cutting and making good the walls etc. white.					
	(a) 530 mm x 460 mm	each	256.10	1657.91	281.71	1683.52
	(b) 460 mm x 390 mm x 200mm	each	256.10	2058.42	281.71	2084.03
	(c) 530 mm x 450 mm x 200mm	each	256.10	1425.61	281.71	1451.22
30.50	Blank					
30.51	Blank					
30.52	Providing and fixing in position best Indian make vitreous Chinaware white laboratory sinks consisting of a pair of brackets, C.P. brass waste 40mm (to the approval of the Engineer - In-Charge).					
	(a) Size 450 mm x 300 mm x 150 mm	each	909.44	2700.32	1000.38	2791.26
	(b) Size 600 mm x 400 mm x 200 mm	each	909.44	4183.37	1000.38	4274.31
	(c) Size 600 mm x 400 mm x 250 mm	each	909.44	4286.35	1000.38	4377.29
30.53	Providing and fixing 40 mm i/d G.I waste pipe embedded in walls 3.00 mm thick upto floor level as required by the Engineer-in-Charge including cost of union.	each	99.31	465.50	109.24	475.43
30.54	Providing and fixing 40 mm i/d chromium plated brass trap with Chromium plated brass pipe to wall with wall flange, complete (as per requirement of the Engineer-in-Charge) for use with sinks.					
	(a) With bottle trap (Indian make)	each	56.46	954.76	62.11	960.41
30.55	Blank					
30.56	Providing and fixing in position best Indian make shower with 15 or 20 mm i/d Inlet.					
	(a) C.P. brass shower size 100 / 125 mm dia	each	14.85	493.18	16.34	494.67
	(b) C.P. brass telephonic shower with tube and hook	each	14.85	1144.30	16.34	1145.79

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			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
30.57	Providing and fixing in position paper holders fixed in to wall with C.P brass screws complete in all respects including cutting and making good the walls etc.					
	(a) Chromium plated brass toilet paper holder	each	64.02	622.45	70.42	628.85
	(b) Vitreous Chinaware white toilet paper holder	each	64.02	338.66	70.42	345.06
30.58	Providing and fixing in position towel rails / ring fixed in with rawl plugs embedded in walls with brass screws, complete in all respects including cutting and making good the walls etc.					
	(a) C.P. brass towel Rails size 20mm dia 750mm long	each	85.54	1058.22	94.09	1066.77
	(b) C.P. brass towel Rails size 20mm dia 600mm long	each	85.54	918.61	94.09	927.16
	(c) C.P. brass towel Rails size 20mm dia 460mm long	each	85.54	870.55	94.09	879.10
	(d) C.P brass towel ring	each	85.54	647.40	94.09	655.95
	(e) Acrylic towel Rails size 20mm dia 750mm long	each	85.54	486.06	94.09	494.61
	(f) Acrylic towel Rails size 20mm dia 600mm long	each	85.54	440.28	94.09	448.83
	(g) Acrylic glass shelve	each	85.54	211.42	94.09	219.97
30.59 A	Providing and fixing in position glass shelf fixed in with rawl plugs with C.P brass screws complete including cutting and making good the walls etc.					
	(a) C.P. brass brackets and guard rails size 600mmx125mm	each	128.06	906.20	140.87	919.01
	(b) C.P. brass brackets and guard rails corner size 450mmx450mm	each	128.06	814.66	140.87	827.47

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
30.59 B	Providing and fixing in position Acrylic shelf with Acrylic guard rails fixed in with rawl plugs with C.P brass screws complete including cutting and making good the walls etc.					
	(a) 600 mm x 125 mm plain	each	128.06	471.36	140.87	484.17
	(b) Corner size 450mmx450mm	each	128.06	528.58	140.87	541.39
30.60	Providing and fixing in position best Indian make soap dish fixed into wall with C.P brass screws and complete in all respects including cutting and making good the walls etc.					
	(a) C.P. brass soap dish Large	each	14.12	437.52	15.53	438.93
	(b) C.P. brass soap dish Small	each	14.12	414.64	15.53	416.05
	(c) Vitreous Chinaware soap dish size 150mm x 150mm	each	14.12	231.54	15.53	232.95
	(d) Vitreous Chinaware soap dish size 200mm x 100mm	each	14.12	270.45	15.53	271.86
30.61	Providing & Fixing in position best indian make bevelled edge 5mm thick mirror mounted on 4mm thick Cardboard sheet ground fixed in position by means of 4 nos. chromium plated brass screws and washers over rubber washers and rawl plugs embedded in the walls or chromium plated brass clamps with C.P. brass screws (as required by the Engineer-in- Charge) complete including cutting and making good the walls etc.					
	(a) Size 600mmx450mm	each	256.10	792.62	281.71	818.23
	(b) Size 550mmx400mm	each	256.10	720.81	281.71	746.42
30.62	Providing & Fixing in position brass oxidized gas taps (to the approval of the Engineer-in-Charge) complete in all respects.					
	(a) One way	each	35.86	196.07	39.45	199.66
	(b) Two way	each	35.86	310.50	39.45	314.09
	(c) Three way	each	35.86	424.93	39.45	428.52
	(d) Four way	each	35.86	539.37	39.45	542.96

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1	2	3	4	5	6	7
30.63	Providing & Fixing in position best Indian make coat and hat hooks fixed into wall with c.p. brass screws and rawl plugs etc. complete including cutting and making good the walls etc.					
	(a) C.P. Brass coat and hat hook one way	each	16.90	188.55	18.59	190.24
	(b) C.P. Brass coat and hat hook Two way	each	16.90	300.69	18.59	302.38
	(c) Aluminium coat and hat hook one way	each	16.90	42.08	18.59	43.77
	(d) Aluminium coat and hat hook Two way	each	16.90	53.52	18.59	55.21
30.63 B	Providing & Fixing in position best Indian make coat and hat hooks fixed into wall with c.p. brass screws and rawl plugs etc. complete including cutting and making good the walls etc.					
	(a) C.P. Brass khunti with 4 pegs	each	33.79	457.19	37.17	460.57
	(b) C.P. Brass khunti with 6 pegs	each	33.79	491.52	37.17	494.90
	(c) Aluminium khunti with 4 pegs	each	33.79	148.22	37.17	151.60
	(d) Aluminium khunti with 6 pegs	each	33.79	234.05	37.17	237.43
30.64 A	Providing & Fixing in position C.P. Brass flange under various fixtures complete in all respects (as required by the Engineer-in-Charge)	each	8.46	42.79	9.31	43.64
30.64 B	Providing & Fixing in position C.P. Brass extension piece 15mm dia, 15mm long or 25mm long or 40mm long with various fixtures complete in all respects (as required by the Engineer-in- Charge)	each	8.46	100.01	9.31	100.86
30.65	Providing & Fixing in postion 15 mm i/d bib cock of best quality (as approved by the Engineer-in-charge).					
	(a) C.P. brass Bib cock long nose	each	35.86	763.66	39.45	767.25
	(b) C.P. brass Bib cock	each	35.86	611.46	39.45	615.05

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1	2	3	4	5	6	7
	(c) C.P. brass Bib cock push type	each	35.86	402.05	39.45	405.64
	(d) Brass Bib cock 15mm x 400gm	each	35.86	333.39	39.45	336.98
	(e) Brass Nozel Bib cock 15mm x 250gm.	each	19.77	179.98	21.75	181.96
	(f) PVC Bib cock / Stop cock / Angle cock 15mm	each	35.86	193.77	39.45	197.36
	(g) PVC Pillar tap	each	35.86	237.26	39.45	240.85
30.66	Providing & Fixing in position stop cock / Angle valve (as approved by the Engineer-in-charge).					
	(a) C.P.brass 15mm stop cock Male and female end	each	32.27	578.11	35.50	581.34
	(b) C.P.brass 15mm Concealed stop cock with flange.	each	58.74	819.72	64.61	825.59
	(c) C.P.brass 15mm Concealed Angle valve	each	58.74	604.58	64.61	610.45
	(d) C.P.brass 20mm stop cock	each	32.27	592.99	35.50	596.22
	(e) C.P.brass 20mm concealed stop cock with Flange	each	58.74	1001.67	64.61	1007.54
	(f) UPVC 15mm stop cock Male and female end	each	32.27	169.59	35.50	172.82
	(g) UPVC 15mm Concealed stop cock with flange.	each	58.74	272.73	64.61	278.60
	(h) UPVC 15mm Concealed Angle valve	each	58.74	225.81	64.61	231.68
	(i) UPVC 20mm stop cock	each	32.27	197.05	35.50	200.28
	(j) UPVC 20mm concealed stop cock with Flange	each	58.74	288.75	64.61	294.62
30.67	Providing & Fixing in position liquid soap container of best quality (as required by the Engineer-in-charge).					
	(a) C.P. brass liquid soap container (Heavy type)	each	8.75	580.92	9.63	581.80
	(b) Acrylic liquid soap container (Heavy type)	each	8.75	294.83	9.63	295.71

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
30.68	Providing & fixing 15 mm C.P brass laboratory cock swan neck of best quality (to the approval of the Engineer-in- Charge)					
	(a) Laboratory cock swan neck One Way	each	25.61	772.86	28.17	775.42
	(b) Laboratory cock swan neck Two Way	each	25.61	1341.59	28.17	1344.15
	(c) Laboratory cock swan neck Three Way	each	25.61	1429.70	28.17	1432.26
30.69	Providing & fixing in position best Indian make tooth brush cum Tooth paste holder fixed in with rawl plugs with C.P brass screws complete including cutting and making good the walls etc.					
	(a) C.P. brass Tooth Brush cum Tooth Paste holder	each	8.75	209.01	9.63	209.89
	(b) C.P. brass Tooth Brush holder	each	8.75	180.40	9.63	181.28
	(c) Acrylic Tooth Brush cum Tooth Paste holder	each	8.75	180.40	9.63	181.28
	(d) Acrylic Tooth Brush holder	each	8.75	180.40	9.63	181.28
30.70	Providing & fixing in position best Indian make tumbler cum Tooth brush holder fixed in with rawl plugs with C.P brass screws complete including cutting and making good the walls etc.					
	(a) C.P. brass tumbler cum Tooth brush holder	each	8.75	209.01	9.63	209.89
	(b) Acrylic tumbler cum Tooth brush holder	each	8.75	209.01	9.63	209.89
30.71	Providing & fixing in position best Indian make C.P brass wall mixer 15 mm.					
	(a) With Telephonic Shower	each	51.24	3646.73	56.36	3651.85
	(b) Without Telephonic shower.	each	51.24	1976.01	56.36	1981.13
30.72	Providing & fixing in position best Indian make PVC flexible tube connection.					
	(a) PVC tube connection of size 15 mm x 300 mm with C.P. Brass nut	each	25.61	105.71	28.17	108.27

Sr. No.	Description		Unit	Plains		Sub-Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(b)	PVC tube connection of size 15 mm x 375 mm with C.P. Brass nut	each	25.61	111.44	28.17	114.00
	(c)	PVC tube connection of size 15 mm x 450 mm with C.P. Brass nut	each	25.61	117.16	28.17	119.72
	(d)	PVC tube connection of size 15 mm x 300 mm with UPVC nut	each	25.61	64.52	28.17	67.08
	(e)	PVC tube connection of size 15 mm x 375 mm with UPVC nut	each	25.61	69.09	28.17	71.65
	(e)	PVC tube connection of size 15 mm x 450 mm with UPVC nut	each	25.61	75.96	28.17	78.52
30.73	Providing & fixing in position best Indian make C.P. Copper tube connection.						
	(a)	C.P. copper tube connection of size 15 mm x 300 mm with C.P. Brass nut	each	25.61	128.60	28.17	131.16
	(b)	C.P. copper tube connection of size 15 mm x 375 mm with C.P. Brass nut	each	25.61	140.04	28.17	142.60
	(c)	C.P. copper tube connection of size 15 mm x 450 mm with C.P. Brass nut	each	25.61	153.78	28.17	156.34
	(d)	C.P. copper tube connection of size 15 mm x 600 mm with C.P. Brass nut	each	25.61	176.67	28.17	179.23
30.74	Providing and fixing in position H.C.I. soil waste vent or antisiphonage pipes to I.S.I. specification of E.D.C manufacture or of any other reputed firm including cutting, jointing, wastage, but excluding cost of lead jointing.						
	(a)	150mm i/d H.C.I. pipe lines laid complete	m	50.70	1302.71	55.77	1307.78
	(b)	100mm i/d H.C.I. pipe lines laid complete	m	50.70	743.99	55.77	749.06
	(c)	75mm i/d H.C.I. pipe lines laid complete	m	50.70	622.64	55.77	627.71
30.74 (ii)	Providing and fixing in position Centrifugally cast iron soil waste vent or antisiphonage pipes to I.S.I. specification of E.D.C manufacture or of any other reputed firm including cutting, jointing, wastage, but excluding cost of lead jointing.						
	(a)	160mm i/d Centrifugally cast iron pipe lines laid complete	m	50.70	2416.55	55.77	2421.62

Sr. No.	Description		Unit	Plains		Sub-Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(b)	110mm i/d Centrifugally cast iron pipe lines laid complete	m	50.70	1307.52	55.77	1312.59
	(c)	75mm i/d Centrifugally cast iron pipe lines laid complete	m	27.94	1067.28	30.73	1070.07
30.74 (iii)	Providing and fixing in position SWR UPVC soil waste vent or antisiphonage pipes as per IS -13592 including cutting, jointing, wastage, but excluding cost of lead jointing.						
A	Double socket A Type						
	(a)	160mm i/d SWR UPVC pipe lines laid complete	m	50.70	398.79	55.77	403.86
	(b)	110mm i/d SWR UPVC pipe lines laid complete	m	50.70	194.16	55.77	199.23
	(c)	75mm i/d SWR UPVC pipe lines laid complete	m	50.70	134.21	55.77	139.28
B	Double socket B Type						
	(a)	160mm i/d SWR UPVC pipe lines laid complete	m	50.70	508.97	55.77	514.04
	(b)	110mm i/d SWR UPVC pipe lines laid complete	m	50.70	261.21	55.77	266.28
	(c)	75mm i/d SWR UPVC pipe lines laid complete	m	50.70	196.99	55.77	202.06
30.75	Providing and fixing in position C.I. gully trap cover weighing approximately 7.26 kg and frame for gully trap chamber clear opening size 300mm x 300mm and out side size 330mmx330mm including painting the exposed surface with 3 coats of black bitumastic superior paint of approved manufacture etc.		each	33.84	632.97	37.22	636.35
30.76	Providing and fixing in position gratings 150mm x 150mm for gully trap.						
	(a)	H.C.I. grating including painting with black bitumastic superior paint of approved manufacture three coats.	each	16.23	74.58	17.85	76.20
	(b)	PVC grating	each	15.36	45.11	16.90	46.65
30.77	Providing lead caulked joints to H.C.I. pipes and specials conforming to I.S.I. Specification of E.L.C. manufacture or any other reputed firm including cost of lead yarn, fuel and tools etc.						
	(a)	150mm i/d (1.60 kg.)	each	111.97	391.18	123.17	402.38
	(b)	100mm i/d (1.36 kg.)	each	81.97	318.90	90.17	327.10

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(c) 75mm i/d (1.13 kg.)	each	69.17	267.14	76.09	274.06
30.78	Providing & Fixing in position M.S or heavy flat iron clamps made out of M.S flat iron not less than 5 mm of the approved design for fixing C.I. soil waste, vent or antisiphonage pipes to walls complete in all respects including cutting and making good the walls and floors etc. and painting.					
	(a) M.S. Holder bats clamps for 100mm i/d H.C.I. pipes	each	51.22	158.79	56.34	163.91
	(b) M.S. Holder bats clamps for 75mm i/d H.C.I. pipes	each	51.22	140.48	56.34	145.60
30.79	Providing and fixing H.C.I. Floor traps conforming to I.S.I. Specification of reputed firm of the self cleaning design with C.P. brass hinged grating with frame with or without vent arm and including cement concrete 1:2:4 under and around the floor trap where required upto floor level complete in all respects including cutting and making good the walls and floors,etc. minimum depth of water should be 150mm with a minimum seal 50mm.					
	(a) With 75mm i/d outlet deep seal	each	256.10	875.78	281.71	901.39
	(b) With 75mm i/d outlet shallow seal	each	256.10	730.45	281.71	756.06
	(c) With 100mm i/d outlet shallow seal	each	256.10	839.15	281.71	864.76
30.80	Blank					
30.81	Providing and fixing in position H.C.I special for soil waste vent or anti syphonage pipes to I.S.I specifications of E.L.C manufacture or any other reputed firm including cutting and wastage etc. cutting holes in walls roofs or floors etc. and making good to its original condition but excluding cost of lead joining.					
	(a) For 100mm i/d pipes					
	(i) 100mm i/d H.C.I. Heal Rest Bend	each	51.24	418.57	56.36	423.69
	(ii) 100mm i/d Single junction with door 100mm x 100mm x 100mm x 100mm	each	51.24	639.42	56.36	644.54

Sr. No.	Description		Unit	Plains		Sub-Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(iii)	100mm i/d Single junction plain 100mm x 100mm x 100mm	each	51.24	607.39	56.36	612.51
	(iv)	100mm i/d Bend with door	each	51.24	427.73	56.36	432.85
	(v)	100mm i/d Bend plain	each	51.24	395.68	56.36	400.80
	(vi)	100mm i/d Cowls	each	51.24	290.41	56.36	295.53
	(vii)	100mm i/d Door piece	each	51.24	446.04	56.36	451.16
	(viii)	100mm i/d Collars	each	51.24	220.60	56.36	225.72
	(ix)	100mm i/d Off sets 75mm projection	each	51.24	444.89	56.36	450.01
	(x)	100mm i/d Off sets 100mm projection	each	51.24	617.69	56.36	622.81
	(xi)	100mm i/d Off sets 150mm projection	each	51.24	652.02	56.36	657.14
	(xii)	100mm i/d P-Trap	each	51.24	575.34	56.36	580.46
	(xiii)	100mm i/d Tail Piece 300mm	each	51.24	356.78	56.36	361.90
	(xiv)	100mm i/d Tail Piece 600mm	each	51.24	577.63	56.36	582.75
	(xv)	100mm i/d Tail Piece 900mm	each	51.24	737.84	56.36	742.96
	(xvi)	100mm i/d Tail Piece 1200mm	each	51.24	909.49	56.36	914.61
(b)	For 75mm i/d pipes						
	(i)	75mm i/d H.C.I. Heal Rest Bend	each	51.24	331.61	56.36	336.73
	(ii)	75mm i/d Single junction with door 100mm x 100mm x 100mm x 100mm	each	51.24	455.19	56.36	460.31
	(iii)	75mm i/d Single junction plain 100mm x 100mm x 100mm	each	51.24	434.60	56.36	439.72
	(iv)	75mm i/d Bend with door	each	51.24	341.90	56.36	347.02
	(v)	75mm i/d Bend plain	each	51.24	301.85	56.36	306.97
	(vi)	75mm i/d Cowls	each	51.24	233.19	56.36	238.31
	(vii)	75mm i/d Door piece	each	28.24	293.73	31.06	296.55
	(viii)	75mm i/d Collars	each	51.24	191.99	56.36	197.11
	(ix)	75mm i/d Off sets 75mm projection	each	51.24	323.59	56.36	328.71

Sr. No.	Description		Unit	Plains		Sub-Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(x)	75mm i/d Off sets 100mm projection	each	51.24	537.59	56.36	542.71
	(xi)	75mm i/d Off sets 150mm projection	each	51.24	560.47	56.36	565.59
	(xii)	75mm i/d P-Trap	each	51.24	393.40	56.36	398.52
	(xiii)	75mm i/d Tail Piece 300mm	each	51.24	292.69	56.36	297.81
	(xiv)	75mm i/d Tail Piece 600mm	each	51.24	465.49	56.36	470.61
	(xv)	75mm i/d Tail Piece 900mm	each	28.24	600.41	31.06	603.23
	(xvi)	75mm i/d Tail Piece 1200mm	each	28.24	766.34	31.06	769.16
30.81	(ii)	Providing and fixing in position Centrifugally cast iron special for soil waste vent or anti syphonage pipes to I.S.I specifications of E.L.C manufacture or any other reputed firm including cutting and wastage etc. cutting holes in walls roofs or floors etc. and making good to its original condition but excluding cost of lead joining.					
A	For 110mm i/d pipes						
	(i)	110mm i/d Centrifugally cast iron Heal Rest Bend	each	28.24	365.82	31.06	368.64
	(ii)	110mm i/d Single junction with door 100mm x 100mm x 100mm x 100mm	each	28.24	627.87	31.06	630.69
	(iii)	110mm i/d Single junction plain 100mm x 100mm x 100mm	each	51.24	560.47	56.36	565.59
	(iv)	110mm i/d Bend with door	each	51.24	411.71	56.36	416.83
	(v)	110mm i/d Bend plain	each	51.24	365.94	56.36	371.06
	(vi)	110mm i/d Cowls	each	51.24	268.66	56.36	273.78
	(vii)	110mm i/d Door piece	each	51.24	472.35	56.36	477.47
	(viii)	110mm i/d Collars	each	51.24	197.71	56.36	202.83
	(ix)	110mm i/d Off sets 75mm projection	each	51.24	411.71	56.36	416.83
	(x)	110mm i/d Off sets 100mm projection	each	51.24	577.63	56.36	582.75
	(xi)	110mm i/d Off sets 150mm projection	each	51.24	611.96	56.36	617.08
	(xii)	110mm i/d P-Trap	each	51.24	537.59	56.36	542.71

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(xiii) 110mm i/d Tail Piece 300mm	each	51.24	388.82	56.36	393.94
	(xiv) 110mm i/d Tail Piece 600mm	each	51.24	566.19	56.36	571.31
	(xv) 110mm i/d Tail Piece 900mm	each	51.24	726.39	56.36	731.51
	(xvi) 110mm i/d Tail Piece 1200mm	each	51.24	911.78	56.36	916.90
B	For 75mm i/d pipes					
	(i) 75mm i/d Centrifugally cast iron Heal Rest Bend	each	28.24	285.72	31.06	288.54
	(ii) 75mm i/d Single junction with door 100mm x 100mm x 100mm x 100mm	each	28.24	405.87	31.06	408.69
	(iii) 75mm i/d Single junction plain 100mm x 100mm x 100mm	each	51.24	400.27	56.36	405.39
	(iv) 75mm i/d Bend with door	each	51.24	357.92	56.36	363.04
	(v) 75mm i/d Bend plain	each	51.24	280.11	56.36	285.23
	(vi) 75mm i/d Cowls	each	51.24	217.17	56.36	222.29
	(vii) 75mm i/d Door piece	each	51.24	339.62	56.36	344.74
	(viii) 75mm i/d Collars	each	51.24	175.98	56.36	181.10
	(ix) 75mm i/d Off sets 75mm projection	each	51.24	331.61	56.36	336.73
	(x) 75mm i/d Off sets 100mm projection	each	51.24	538.73	56.36	543.85
	(xi) 75mm i/d Off sets 150mm projection	each	51.24	563.90	56.36	569.02
	(xii) 75mm i/d Tail Piece 300mm	each	51.24	313.29	56.36	318.41
	(xiii) 75mm i/d Tail Piece 600mm	each	51.24	446.04	56.36	451.16
	(xiv) 75mm i/d Tail Piece 900mm	each	51.24	573.06	56.36	578.18
	(xv) 75mm i/d Tail Piece 1200mm	each	51.24	726.39	56.36	731.51
30.81 (iii)	Providing and fixing in position SWR UPVC special for soil waste vent or anti syphonage pipes as per as per IS - 14735 including cutting and wastage etc. cutting holes in walls roofs or floors etc. and making good to its original condition but excluding cost of lead joining.					

Sr. No.	Description		Unit	Plains		Sub-Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
A	For 110mm i/d pipes						
	(i)	110mm i/d Centrifugally cast iron Heal Rest Bend	each	51.24	403.69	56.36	408.81
	(ii)	110mm i/d Single junction with door 100mm x 100mm x 100mmx 100mm	each	51.24	280.11	56.36	285.23
	(iii)	110mm i/d Single junction plain 100mm x 100mm x 100mm	each	51.24	243.48	56.36	248.60
	(iv)	110mm i/d Bend with door	each	51.24	166.99	56.36	172.11
	(v)	110mm i/d Bend plain	each	51.24	132.48	56.36	137.60
	(vi)	110mm i/d Cowls	each	51.24	85.57	56.36	90.69
	(vii)	110mm i/d Door piece	each	51.24	177.12	56.36	182.24
	(viii)	110mm i/d Collars	each	51.24	109.60	56.36	114.72
	(ix)	110mm i/d P-Trap	each	51.24	251.50	56.36	256.62
	(x)	110mm i/d Tail Piece 300mm	each	51.24	348.77	56.36	353.89
	(xi)	110mm i/d Tail Piece 600mm	each	51.24	575.34	56.36	580.46
	(xii)	110mm i/d Off sets 75mm projection	each	51.24	419.72	56.36	424.84
	(xiii)	110mm i/d Off sets 100mm projection	each	51.24	590.22	56.36	595.34
	(xiv)	110mm i/d Off sets 150mm projection	each	51.24	630.27	56.36	635.39
B	For 75mm i/d pipes						
	(i)	75mm i/d Centrifugally cast iron Heal Rest Bend	each	51.24	319.01	56.36	324.13
	(ii)	75mm i/d Single junction with door 100mm x 100mm x 100mmx 100mm	each	51.24	180.55	56.36	185.67
	(iii)	75mm i/d Single junction plain 100mm x 100mm x 100mm	each	51.24	169.11	56.36	174.23
	(iv)	75mm i/d Bend with door	each	51.24	132.48	56.36	137.60
	(v)	75mm i/d Bend plain	each	51.24	115.32	56.36	120.44
	(vi)	75mm i/d Cowls	each	51.24	78.70	56.36	83.82

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(vii) 75mm i/d Door piece	each	51.24	137.07	56.36	142.19
	(viii) 75mm i/d Collars	each	51.24	99.31	56.36	104.43
	(ix) 75mm i/d P-Trap	each	51.24	222.89	56.36	228.01
	(x) 75mm i/d Tail Piece 300mm	each	51.24	314.44	56.36	319.56
	(xi) 75mm i/d Tail Piece 600mm	each	51.24	491.81	56.36	496.93
	(xii) 75mm i/d Tail Piece 900mm	each	51.24	634.85	56.36	639.97
	(xiii) 75mm i/d Tail Piece 1200mm	each	51.24	795.05	56.36	800.17
	(xiv) 75mm i/d Off sets 75mm projection	each	51.24	348.77	56.36	353.89
	(xv) 75mm i/d Off sets 100mm projection	each	51.24	557.04	56.36	562.16
	(xvi) 75mm i/d Off sets 150mm projection	each	51.24	586.78	56.36	591.90
30.82	Blank					
30.83	Blank					
30.84	Blank					
30.85	Cutting chase in brick walls in cement or in floor for embedding G.I. or C.I pipes lines and making good the same to its original condition.					
	(a) Size 75 mm x 75 mm	m	52.50		57.75	
	(b) Size 150 mm x 150 mm	m	87.89		96.68	
	(c) Size 75 mm x 50 mm	m	73.48		80.83	
	(d) Size 225 mm x 225 mm	m	141.02		155.12	
30.86	Dismantling H.C.I Soil pipes including disposal as desired by the Engineer-in-Charge.					
	(a) 100mm i/d H.C.I. pipe	m	12.88		14.17	
	(b) 75mm i/d H.C.I. pipe	m	12.20		13.42	
	(c) 50mm i/d H.C.I. pipe	m	11.75		12.93	

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
30.87	Dismantling H.C.I specials including dismantling of lead joints including cartage / disposal within 5 Km.					
	(a) 100mm i/d H.C.I. specials	each	18.74		20.61	
	(b) 75mm i/d H.C.I. specials	each	14.63		16.09	
	(c) 50mm i/d H.C.I. specials	each	14.63		16.09	
30.88	Blank					
30.89	Dismantling heavy flat iron clamps including cartage / disposal within 5 Km.					
	(a) 100mm i/d Clamps	each	38.41		42.25	
	(b) 75mm i/d Clamps	each	31.36		34.50	
	(c) 50mm i/d Clamps	each	24.71		27.18	
30.90	Painting H.C.I soil waste and vent pipes and fitting with black bitumastic ISI marked paint of approved manufacture one coat on old work.					
	(a) 100mm i/d H.C.I. Pipe	m	5.51	13.49	6.06	14.04
	(b) 75mm i/d H.C.I. Pipe	m	4.00	9.80	4.40	10.20
30.91	Painting H.C.I soil waste and vent pipes and fitting with black bitumastic ISI marked paint of approved manufacture two coats on new work.					
	(a) 100mm i/d H.C.I. Pipe	m	5.51	13.49	6.06	14.04
	(b) 75mm i/d H.C.I. Pipe	m	4.00	9.80	4.40	10.20
30.92	Painting H.C.I soil waste and vent pipes and fitting with I.S.I marked quality synthetic enamel paints in all shades on old work one coat paint including rubbing down old work.					
	(a) 100mm i/d H.C.I. Pipe	m	5.51	13.49	6.06	14.04
	(b) 75mm i/d H.C.I. Pipe	m	4.00	9.80	4.40	10.20

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
30.93	Painting H.C.I soil waste and vent pipes and fitting with I.S.I marked quality synthetic enamel paints in all shades on old work two coat paint including rubbing down old work.					
	(a) 100mm i/d H.C.I. Pipe	m	5.51	13.49	6.06	14.04
	(b) 75mm i/d H.C.I. Pipe	m	4.00	9.80	4.40	10.20
30.94	Blank					
30.95	Blank					
	Internal Water Supply					
30.96	Providing and fixing in position automatic brass ball valves in tanks.					
	(a) 15mm i/d Brass ball valve with copper ball	each	17.07	409.58	18.78	411.29
	(b) 20mm i/d Brass ball valve with copper ball	each	17.07	612.12	18.78	613.83
	(c) 25mm i/d Brass ball valve with copper ball	each	17.07	759.74	18.78	761.45
	(d) 32mm i/d Brass ball valve with copper ball	each	17.07	1462.36	18.78	1464.07
	(e) 40mm i/d Brass ball valve with copper ball	each	17.07	2066.56	18.78	2068.27
	(f) 50mm i/d Brass ball valve with copper ball	each	17.07	2103.18	18.78	2104.89
	(g) 15mm i/d Brass ball valve with plastic ball with G.I. socket	each	17.07	303.15	18.78	304.86
	(h) 20mm i/d Brass ball valve with plastic ball with G.I. socket	each	17.07	360.37	18.78	362.08
	(i) 25mm i/d Brass ball valve with plastic ball with G.I. socket	each	17.07	646.45	18.78	648.16
	(j) 32mm i/d Brass ball valve with plastic ball with G.I. socket	each	17.07	818.10	18.78	819.81
	(k) 40mm i/d Brass ball valve with plastic ball with G.I. socket	each	17.07	1046.97	18.78	1048.68

Sr. No.	Description		Unit	Plains		Sub-Mountainous	
				Labour Rate	Through Rate	Labour Rate	Through Rate
1	2		3	4	5	6	7
	(l)	50mm i/d Brass ball valve with plastic ball with G.I. socket	each	17.07	1275.83	18.78	1277.54
30.97	Providing & fixing in position PVC water storage tanks triple layer make as approves by Engineer-in-Charge including hosting and carriage from store to site of work complete with providing and fixing 15mm or 20mm internal Diametre tanki nipple complete.(Excluding cost of platform).						
	(a)	Tanks upto 1000 ltr. Capacity	Litre	0.38	5.55	0.42	5.59
30.98	Blank						
	DRAINAGE						
30.99	Providing and fixing in position gully traps fixed in cement concrete 1:4:8 complete with Grating 150mm x 150mm, cover and frame clear opening 300mm x 300mm and out of side size 330mm x 330mm and chamber including cost of all bricks work in cement mortar 1:5 cement concrete 1:2:4 in coping around cover and frame etc. with three coats of black bitumastic superior paint of approved manufacture on all C.I. work as per standard design minimum depth of water should be 150 mm with a minimum seal 50mm.						
	(a)	100mm internal Diametre S.W.gully trap with H.C.I. grating and cast iron cover weighing approximately 7.26 kg. and frame clear opening 300mm x 300mm and out of side size 330mm x 330mm	each	107.04	655.18	117.74	665.88
	(b)	100mm internal Diametre H.C.I. gully trap with H.C.I. grating and cast iron cover weighing approximately 7.26 kg. and frame clear opening 300mm x 300mm and out of side size 330mm x 330mm	each	107.04	1255.95	117.74	1266.65
	(c)	150mm internal Diametre S.W.gully trap with H.C.I. grating and cast iron cover weighing approximately 7.26 kg. and frame clear opening 300mm x 300mm and out of side size 330mm x 330mm	each	107.04	718.11	117.74	728.81

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
30.100	Providing and fixing in position best Indian make vitreous Chinaware white channel of size 600 mmx100mm including laying and fixing in cement concrete 1:2:4 complete as per required by the Engineer-in-charge.	each	51.24	384.35	56.36	389.47
30.101	Providing and fixing in position best Indian make air purifier complete with first change (as approved by the Engineer-in-charge in metal container C.P brass).	each	8.50	180.15	9.35	181.00
30.102	Providing and fixing in position best Indian make (To the approval of Engineer-in-Charge) storage type automatic electric water heater pressure / non pressure type thermostatically controlled, suitable for operation on 230 volts 50 cycles, single phase, vertical wall mounting fitted with drawable and adjustable type A.C the with emostat thermostats knob to be readily accessible through the opening of suitable cover for adjustment of temperature in the installed position of heater and the thermostat should be with drawn without having to drain the water electric heating element made out of copper tube(heating element should be easily removed and replaced in the installed position of heater) a neon indicator 1 Amp. inner container made out of copper tinned both from inside and outside outer container made out of mild steel sheet finished in gleaming white stove enamel paint insulated between the inner and outer with fibre glass wool with 1 meter length of suitable capacity 3 core flexible cord with plug and non-return valve plastic/lead connections or pressure release valve (Where required) complete including fixing and testing for a week (as required by the Engineer-in-Charge).					
	(a) 25 litre capacity water heater	each	256.10	7865.89	281.71	7891.50
	(b) 35 litre capacity water heater	each	256.10	10497.85	281.71	10523.46
	(c) 50 litre capacity water heater	each	256.10	12443.21	281.71	12468.82