
SUB HEAD : 18.0
WATER SUPPLY

SUB HEAD : 18.0
WATER SUPPLY

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.1	Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450, U.V. stabilized with carban 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 meter spacing. This includes testing of joints complete of joints complete as per direction of the Engineer-in-Charge.				
	Internal work - Exposed on wall.				
18.1.1	1216 (16 mm OD) pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
8300	1216 mm PE-AL-PE Composite pressure pipe	metre	10	80.00	800.00 X
	Add 30% for fittings and wastage etc.				
	on X = 30 X 800 / 100=240				240.00
9999	Cement, sand and grit	L.S.	2.73	2.12	5.79
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
114	Beldar	day	0.66	306.00	201.96
	TOTAL				1629.89
	Add Water Charges @ 1%				16.30
	TOTAL				1646.19 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				231.29
	Total				1877.48 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				281.62
	Cost of 10 metre				2159.10
	Cost of 1 metre				215.91
	Add 1% labour cess				2.16
	Cost of 1 metre				218.07
	Say		218.10	per m	
18.1.2	1620 (20 mm OD) pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
8301	1620 mm PE-AL-PE Composite pressure pipe	metre	10	90.00	900.00 X
	Add 30% for fittings and wastage etc.				
	on X = 30 X 900 / 100=270				270.00
9999	Cement, sand and grit	L.S.	2.73	2.12	5.79
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.82	369.00	302.58
114	Beldar	day	0.66	306.00	201.96
	TOTAL				1818.93
	Add Water Charges @ 1%				18.19
	TOTAL				1837.12 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				258.11
	Total				2095.23 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				314.28
	Cost of 10 metre				2409.52
	Cost of 1 metre				240.95
	Add 1% labour cess				2.41
	Cost of 1 metre				243.36
	Say		243.40	per m	












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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.1.3	2025 (25 mm OD) pipe. Details of cost for 10 metre. MATERIAL:				
8302	2025 mm PE-AL-PE Composite pressure pipe Add 30% for fittings and wastage etc. on $X = 30 \times 1400 / 100 = 420$	metre	10	140.00	1400.00 X
9999	Cement, sand and grit	L.S.	2.73	2.12	420.00 5.79
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.98	369.00	361.62
114	Beldar	day	0.66	306.00	201.96
	TOTAL				2527.97
	Add Water Charges @ 1%				25.28
	TOTAL				2553.25 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				358.73
	Total				2911.98 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				436.80
	Cost of 10 metre				3348.78
	Cost of 1 metre				334.88
	Add 1% labour cess				3.35
	Rate per m	Say			338.20
18.1.4	2532 (32 mm OD) pipe. Details of cost for 10 metre. MATERIAL:				
8303	2532 mm PE-AL-PE Composite pressure pipe Add 30% for fittings and wastage etc. on on $X = 30 \times 1800 / 100 = 540$	metre	10	180.00	1800.00 X
9999	Cement, sand and grit	L.S.	4.16	2.12	540.00 8.82
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.98	369.00	361.62
114	Beldar	day	0.98	306.00	299.88
	TOTAL				3148.92
	Add Water Charges @ 1%				31.49
	TOTAL				3180.41 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				446.85
	Total				3627.26 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				544.09
	Cost of 10 metre				4171.34
	Cost of 1 metre				417.13
	Add 1% labour cess				4.17
	Rate per m	Say			421.30
18.1.5	3240 (40 mm OD) pipe. Details of cost for 10 metre. MATERIAL:				
8304	3240 mm PE-AL-PE Composite pressure pipe Add 30% for fittings and wastage etc. on X on $X = 30 \times 2800 / 100 = 840$	metre	10	280.00	2800.00 X
9999	Cement, sand and grit	L.S.	5.33	2.12	840.00 11.30
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	1.31	369.00	483.39
114	Beldar	day	1.31	306.00	400.86
	TOTAL				4674.15
	Add Water Charges @ 1%				46.74
	TOTAL				4720.89 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				663.29

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				5384.18 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				807.63
	Cost of 10 metre				6191.80
	Cost of 1 metre				619.18
	Add 1% labour cess				6.19
	Rate per m	Say			625.40
18.1.6	4050 (50 mm OD) pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
8305	4050 mm PE-AL-PE Composite pressure pipe	metre	10	360.00	3600.00 X
	Add 30% for fittings and wastage etc. on X				
	on X = 30 X 3600 / 100=1080				1080.00
9999	Cement, sand and grit	L.S.	5.33	2.12	11.30
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	1.31	369.00	483.39
114	Beldar	day	1.31	306.00	400.86
	TOTAL				5714.15
	Add Water Charges @ 1%				57.14
	TOTAL				5771.29 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				810.87
	Total				6582.16 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				987.32
	Cost of 10 metre				7569.48
	Cost of 1 metre				756.95
	Add 1% labour cess				7.57
	Rate per m	Say			764.50
18.2	Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450, U.V. stabilized with carban 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 meter spacing. This includes the costs of cutting chases and including testing of joints complete of joints complete as per direction of the Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc.				
18.2.1	1216 (16 mm OD) pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
8300	1216 mm PE-AL-PE Composite pressure pipe	metre	10	80	800.00 X
	Add 75% for fittings, clamps and wastage etc.				
	on X = 75 X 800 / 100=600				600.00
	Making chases upto 7.5 x 7.5 cm. in walls and making good the same				
18.78	Rate as per Item Number 18.78 of SH: Water supply	metre	10	84.51	845.09 A
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
114	Beldar	day	0.66	306.00	201.96
	TOTAL				2829.19
	Add Water Charges @ 1% except on A i.e on				19.84
	TOTAL				2849.03 (Z)
	Add GST 12% on "Z"except on A (multiplying factor 0.1405)				281.55
	Total				3130.59 (Y)
	Add CPOH @ 15% on Y except on A i.e on				342.82
	Cost of 10 metre				3473.41









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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 metre				347.34
	Add 1% labour cess				3.47
	Rate per m	Say			350.80
18.2.2	1620 (20 mm OD) pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
8301	1620 mm PE-AL-PE Composite pressure pipe Add 75% for fittings, clamps and wastage etc. on X = 75 X 900 / 100=675	metre	10	90	900.00 X
	Making chases upto 7.5 x 7.5 cm. in walls and making good the same				675.00
18.78	Rate as per Item Number 18.78 of SH: Water supply	metre	10	84.51	845.09 A
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
114	Beldar	day	0.66	306.00	201.96
	TOTAL				3004.19
	Add Water Charges @ 1% except on A i.e on TOTAL				21.59
	Add GST 12% on "Z"except on A (multiplying factor 0.1405)				3025.78 (Z)
	Total				306.39
	Add CPOH @ 15% on Y except on A i.e on				3332.17 (Y)
	Cost of 10 metre				373.06
	Cost of 1 metre				3705.23
	Add 1% labour cess				370.52
	Rate per m	Say			3.71
	Rate per m	Say			374.20
18.2.3	2025 (25 mm OD) pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
8302	2025 mm PE-AL-PE Composite pressure pipe Add 75% for fittings, clamps and wastage etc. on X on X = 75 X 1400 / 100=1050	metre	10	140	1400.00 X
	Making chases upto 7.5 x 7.5 cm. in walls and making good the same				1050.00
18.78	Rate as per Item Number 18.78 of SH: Water supply	metre	10	84.51	845.09 A
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
114	Beldar	day	0.66	306.00	201.96
	TOTAL				3879.19
	Add Water Charges @ 1% except on A i.e on TOTAL				30.34
	Add GST 12% on "Z"except on A (multiplying factor 0.1405)				3909.53 (Z)
	Total				430.55
	Add CPOH @ 15% on Y except on A i.e on				4340.09 (Y)
	Cost of 10 metre				524.25
	Cost of 1 metre				4864.34
	Add 1% labour cess				486.43
	Rate per m	Say			4.86
	Rate per m	Say			491.30
18.2.4	2532 (32 mm OD) pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
8303	2532 mm PE-AL-PE Composite pressure pipe Add 75% for fittings, clamps and	metre	10	180	1800.00 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	wastage etc. on X = 75 X on X = 75 X 1800 / 100=1350				1350.00
	Making chases upto 7.5 x 7.5 cm. in walls and making good the same				
18.78	Rate as per Item Number 18.78 of SH: Water supply	metre	10	84.51	845.09 A
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
114	Beldar	day	0.66	306.00	201.96
	TOTAL				4579.19
	Add Water Charges @ 1% except on A i.e on TOTAL				37.34
	Add GST 12% on "Z" except on A (multiplying factor 0.1405)				4616.53 (Z)
	Total				529.89
	Add CPOH @ 15% on Y except on A i.e on				5146.42 (Y)
	Cost of 10 metre				645.20
	Cost of 1 metre				5791.62
	Add 1% labour cess				579.16
	Rate per m	Say			5.79
18.3	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.				585.00
18.3.1	1216 (16 mm OD) pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
8300	1216 mm PE-AL-PE Composite pressure pipe	metre	10	80	800.00 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 800 / 100=240				240.00
	LABOUR:				
116	Fitter (grade 1)	day	0.08	420.00	33.60
114	Beldar	day	0.16	306.00	48.96
	Trenching and refilling etc.				
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				1534.40
	Add Water Charges @ 1%				15.34
	TOTAL				1549.74 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				217.74
	Total				1767.48 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				265.12
	Cost of 10 metre				2032.61
	Cost of 1 metre				203.26
	Add 1% labour cess				2.03
	Rate per m	Say			205.30
18.3.2	1620 (20 mm OD) pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
8301	1620 mm PE-AL-PE Composite pressure pipe	metre	10	90.00	900.00 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 900 / 100=270				270.00
116	Fitter (grade 1)	day	0.08	420.00	33.60

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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
114	Beldar	day	0.16	306.00	48.96
	Trenching and refilling etc.				
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				1664.40
	Add Water Charges @ 1%				16.64
	TOTAL				1681.04 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				236.19
	Total				1917.23 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				287.58
	Cost of 10 metre				2204.82
	Cost of 1 metre				220.48
	Add 1% labour cess				2.20
	Rate per m	Say			222.70
18.3.3	2025 (25mm OD) pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
8302	2025 mm PE-AL-PE Composite pressure pipe	metre	10	140	1400.00 X
	Add 30% for fittings and wastage etc. on X				
	on X = 30 X 1400 / 100=420				420.00
	LABOUR:				
116	Fitter (grade 1)	day	0.08	420.00	33.60
114	Beldar	day	0.16	306.00	48.96
	Trenching and refilling etc.				0.00
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				2314.40
	Add Water Charges @ 1%				23.14
	TOTAL				2337.54 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				328.42
	Total				2665.97 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				399.90
	Cost of 10 metre				3065.86
	Cost of 1 metre				306.59
	Add 1% labour cess				3.07
	Rate per m	Say			309.70
18.3.4	2532 (32 mm OD) pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
8303	2532 mm PE-AL-PE Composite pressure pipe	metre	10	180	1800.00 X
	Add 30% for fittings and wastage etc. on X				
	on X = 30 X 1800 / 100=540				540.00
	LABOUR:				
116	Fitter (grade 1)	day	0.08	420.00	33.60
114	Beldar	day	0.16	306.00	48.96
	Trenching and refilling etc.				
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				2834.40
	Add Water Charges @ 1%				28.34
	TOTAL				2862.74 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				402.22
	Total				3264.96 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				489.74
	Cost of 10 metre				3754.70
	Cost of 1 metre				375.47
	Add 1% labour cess				3.75
	Rate per m	Say			379.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.3.5	3240 (40 mm OD) pipe. Details of cost for 10 metre. MATERIAL:				
8304	3240 mm PE-AL-PE Composite pressure pipe Add 30% for fittings and wastage etc. on X on X = 30 X 2800 / 100=840	metre	10	280.00	2800.00 X 840.00
	LABOUR:				
116	Fitter (grade 1)	day	0.16	420.00	67.20
114	Beldar	day	0.33	306.00	100.98
	Trenching and refilling etc.				
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				4220.02
	Add Water Charges @ 1%				42.20
	TOTAL				4262.22 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				598.84
	Total				4861.06 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				729.16
	Cost of 10 metre				5590.22
	Cost of 1 metre				559.02
	Add 1% labour cess				5.59
	Rate per m	Say			564.60
18.3.6	4050 (50 mm OD) pipe. Details of cost for 10 metre. MATERIAL:				
8305	4050 mm PE-AL-PE Composite pressure pipe Add 30% for fittings and wastage etc. on X on X = 30 X 3600 / 100=1080	metre	10	360.00	3600.00 X 1080.00
	LABOUR:				
116	Fitter (grade 1)	day	0.16	420.00	67.20
114	Beldar	day	0.33	306.00	100.98
	Trenching and refilling etc.				
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				5260.02
	Add Water Charges @ 1%				52.60
	TOTAL				5312.62 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				746.42
	Total				6059.04 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				908.86
	Cost of 10 metre				6967.90
	Cost of 1 metre				696.79
	Add 1% labour cess				6.97
	Rate per m	Say			703.80
18.4	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes SDR 7.4, conforming to IS 15801U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge.				
	Internal work - Exposed on wall.				
18.4.1	PN - 16 Pipe, 16 mm OD. Details of cost for 10 metre. MATERIAL:				
8625	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 16 mm Outer dia Add 30% for fittings and wastage etc. on X	metre	10	35.82	358.20 X









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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	on X = 30 X 358.2 / 100=107.46				107.46
9999	Cement, sand and grit	L.S.	2.73	2.12	5.79
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
114	Beldar	day	0.66	306.00	201.96
	TOTAL				1055.55
	Add Water Charges @ 1%				10.56
	TOTAL				1066.10 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				149.79
	Total				1215.89 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				182.38
	Cost of 10 metre				1398.27
	Cost of 1 metre				139.83
	Add 1% labour cess				1.40
	Rate per m	Say			141.20
18.4.2	PN - 16 Pipe, 20 mm OD.				
	Details of cost for 10 metre.				
	MATERIAL:				
8626	Poly propylene - Random - Co - Polymer (PPR) pipes SDR 7.4 - 20 mm Outer dia	metre	10	48.46	484.60 X
	Add 30% for fittings and wastage etc. on X				
	on X = 30 X 484.6 / 100=145.38				145.38
9999	Cement, sand and grit	L.S.	2.73	2.12	5.79
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.82	369.00	302.58
114	Beldar	day	0.66	306.00	201.96
	TOTAL				1278.91
	Add Water Charges @ 1%				12.79
	TOTAL				1291.70 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				181.48
	Total				1473.18 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				220.98
	Cost of 10 metre				1694.16
	Cost of 1 metre				169.42
	Add 1% labour cess				1.69
	Rate per m	Say			171.10
18.4.3	PN - 16 Pipe, 25 mm OD.				
	Details of cost for 10 metre.				
	MATERIAL:				
8627	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 25 mm outer dia	metre	10	74.82	748.20 X
	Add 30% for fittings and wastage etc. on X				
	on X = 30 X 748.2 / 100=224.46				224.46
9999	Cement, sand and grit	L.S.	2.73	2.12	5.79
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.98	369.00	361.62
114	Beldar	day	0.66	306.00	201.96
	TOTAL				1680.63
	Add Water Charges @ 1%				16.81
	TOTAL				1697.43 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				238.49
	Total				1935.92 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				290.39
	Cost of 10 metre				2226.31

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 metre				222.63
	Add 1% labour cess				2.23
	Rate per m	Say			224.90
18.4.4	PN - 16 Pipe, 32 mm OD.				
	Details of cost for 10 metre.				
	MATERIAL:				
8628	Poly propylene - Random - Co - poymer (PPR) pipes SDR 7.4 - 32 mm Outer dia	metre	10	107.47	1074.70 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 1074.7 / 100=322.41				322.41
9999	Cement, sand and grit	L.S.	4.16	2.12	8.82
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.98	369.00	361.62
114	Beldar	day	0.98	306.00	299.88
	TOTAL				2206.03
	Add Water Charges @ 1%				22.06
	TOTAL				2228.09 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				313.05
	Total				2541.14 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				381.17
	Cost of 10 metre				2922.31
	Cost of 1 metre				292.23
	Add 1% labour cess				2.92
	Rate per m	Say			295.20
18.4.5	PN - 16 Pipe, 40 mm OD.				
	Details of cost for 10 metre.				
	MATERIAL:				
8629	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 40 mm Outer dia	metre	10	162.00	1620.00 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 1620 / 100=486				486.00
9999	Cement, sand and grit	L.S.	5.33	2.12	11.30
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	1.31	369.00	483.39
114	Beldar	day	1.31	306.00	400.86
	TOTAL				3140.15
	Add Water Charges @ 1%				31.40
	TOTAL				3171.55 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				445.60
	Total				3617.15 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				542.57
	Cost of 10 metre				4159.73
	Cost of 1 metre				415.97
	Add 1% labour cess				4.16
	Rate per m	Say			420.10
18.4.6	PN - 16 Pipe, 50 mm OD.				
	Details of cost for 10 metre.				
	MATERIAL:				
8630	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 50 mm Outer dia	metre	10	255.00	2550.00 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 2550 / 100=765				765.00
9999	Cement, sand and grit	L.S.	5.33	2.12	11.30
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60











Code	Description	Unit	Quantity	Rate ₹	Amount ₹
117	Assistant Fitter or 2nd class Fitter	day	1.31	369.00	483.39
114	Beldar	day	1.31	306.00	400.86
	TOTAL				4349.15
	Add Water Charges @ 1%				43.49
	TOTAL				4392.64 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				617.17
	Total				5009.81 (Y)
	Add 15 % Contractor's profit and overheads on "Y"				751.47
	Cost of 10 metre				5761.28
	Cost of 1 metre				576.13
	Add 1% labour cess				5.76
	Rate per m	Say			581.90
18.5	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming 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, i/c fixing the pipe with clamps at 1.00 m spacing. 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 wall etc.				
18.5.1	PN - 16 Pipe, 16 mm OD (SDR 7.4)				
	Details of cost for 10 metre.				
	MATERIAL:				
8625	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 16 mm Outer dia	metre	10	35.82	358.20 X
	Add 75% for fittings, clamps and wastage on X = 75 X 358.2 / 100=268.65				268.65
	Making chases upto 7.5 x 7.5 cm. in walls and making good the same				
18.78	Rate as per Item Number 18.78 of SH: Water supply	metre	10	84.51	845.09 A
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
114	Beldar	day	0.66	306.00	201.96
	TOTAL				2056.04
	Add Water Charges @ 1% except on A i.e on TOTAL				12.11
	TOTAL				2068.15 (Z)
	Add GST 12% on "Z" except on A (multiplying factor 0.1405)				171.84
	Total				2239.99 (Y)
	Add CPOH @ 15% on Y except on A i.e on				209.23
	Cost of 10 metre				2449.23
	Cost of 1 metre				244.92
	Add 1% labour cess				2.45
	Rate per m	Say			247.40
18.5.2	PN - 16 Pipe, 20 mm OD.				
	Details of cost for 10 metre.				
	MATERIAL:				
8626	Poly propylene - Random - Co - Polymer (PPR) pipes SDR 7.4 - 20 mm Outer dia	metre	10	48.46	484.60 X
	Add 75% for fittings, clamps and wastage on X = 75 X 484.6 / 100=363.45				363.45
	Making chases upto 7.5 x 7.5 cm. in walls and making good the same				
18.78	Rate as per Item Number 18.78 of SH: Water supply	metre	10	84.51	845.09 A
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
114	Beldar	day	0.66	306.00	201.96
	TOTAL				2277.24
	Add Water Charges @ 1% except on A i.e on				14.32
	TOTAL				2291.57 (Z)
	Add GST 12% on "Z"except on A (multiplying factor 0.1405)				203.23
	Total				2494.79 (Y)
	Add CPOH @ 15% on Y except on A i.e on				247.46
	Cost of 10 metre				2742.25
	Cost of 1 metre				274.22
	Add 1% labour cess				2.74
	Rate per m	Say			277.00
18.5.3	PN - 16 Pipe, 25 mm OD.				
	Details of cost for 10 metre.				
	MATERIAL:				
8627	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 25 mm outer dia	metre	10	74.82	748.20 X
	Add 75% for fittings, clamps and wastage on X = 75 X 748.2 / 100=561.15				561.15
	Making chases upto 7.5 x 7.5 cm. in walls and making good the same				
18.78	Rate as per Item Number 18.78 of SH: Water supply	metre	10	84.51	845.09 A
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
114	Beldar	day	0.66	306.00	201.96
	TOTAL				2738.54
	Add Water Charges @ 1% except on A i.e on				18.93
	TOTAL				2757.48 (Z)
	Add GST 12% on "Z"except on A (multiplying factor 0.1405)				268.69
	Total				3026.17 (Y)
	Add CPOH @ 15% on Y except on A i.e on				327.16
	Cost of 10 metre				3353.33
	Cost of 1 metre				335.33
	Add 1% labour cess				3.35
	Rate per m	Say			338.70
18.5.4	PN -16 Pipe, 32 mm OD.				
	Details of cost for 10 metre.				
	MATERIAL:				
8628	Poly propylene - Random - Co - poymer (PPR) pipes SDR 7.4 - 32 mm Outer dia	metre	10	107.47	1074.70 X
	Add 75% for fittings, clamps and wastage on X = 75 X 1074.7 / 100=806.025				806.03
	100				
	Making chases upto 7.5 x 7.5 cm. in walls and making good the same				
18.78	Rate as per Item Number 18.78 of SH: Water supply	metre	10	84.51	845.09 A
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
114	Beldar	day	0.66	306.00	201.96
	TOTAL				3309.92
	Add Water Charges @ 1% except on A i.e on				24.65
	TOTAL				3334.57 (Z)














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST 12% on "Z" except on A (multiplying factor 0.1405)				349.77
	Total				3684.34 (Y)
	Add CPOH @ 15% on Y except on A i.e. on				425.89
	Cost of 10 metre				4110.22
	Cost of 1 metre				411.02
	Add 1% labour cess				4.11
	Rate per m				415.10
18.6	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes 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.				
18.6.1	PN - 16 Pipe, 16 mm OD (SDR -7.4).				
	Details of cost for 10 metre				
	MATERIAL:				
8625	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 16 mm Outer dia	metre	10	35.82	358.20 X
	Add 30% for fittings and wastage etc. on X				
	on X = 30 X 358.2 / 100=107.46				107.46
	LABOUR:				
116	Fitter (grade 1)	day	0.08	420.00	33.60
114	Beldar	day	0.16	306.00	48.96
	Trenching and refilling etc.				
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				960.06
	Add Water Charges @ 1%				9.60
	TOTAL				969.66 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				136.24
	Total				1105.90 (Y)
	Add CPOH @ 15% on Y				165.88
	Cost of 10 metre				1271.78
	Cost of 1 metre				127.18
	Add 1% labour cess				1.27
	Rate per m				128.50
18.6.2	PN - 16 Pipe, 20 mm OD (SDR -7.4).				
	Details of cost for 10 metre.				
	MATERIAL:				
8626	Poly propylene - Random - Co - Polymer (PPR) pipes SDR 7.4 - 20 mm Outer dia	metre	10	48.46	570.00 X
	Add 30% for fittings and wastage etc. on X				
	on X = 30 X 570 / 100=171				171.00
	LABOUR:				
116	Fitter (grade 1)	day	0.08	420.00	33.60
114	Beldar	day	0.16	306.00	48.96
	Trenching and refilling etc.				
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				1235.40
	Add Water Charges @ 1%				12.35
	TOTAL				1247.75 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				175.31
	Total				1423.06 (Y)
	Add CPOH @ 15% on Y				213.46
	Cost of 10 metre				1636.52

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 metre				163.65
	Add 1% labour cess				1.64
	Rate per m	Say			165.30
18.6.3	PN - 16 Pipe, 25 mm OD (SDR -7.4).				
	Details of cost for 10 metre.				
	MATERIAL:				
8627	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 25 mm outer dia	metre	10	74.82	748.20 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 748.2 / 100=224.46				224.46
	LABOUR:				
116	Fitter (grade 1)	day	0.12	420.00	50.40
114	Beldar	day	0.25	306.00	76.50
	Trenching and refilling etc.				
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				1511.40
	Add Water Charges @ 1%				15.11
	TOTAL				1526.51 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				214.48
	Total				1740.99 (Y)
	Add CPOH @ 15% on Y				261.15
	Cost of 10 metre				2002.14
	Cost of 1 metre				200.21
	Add 1% labour cess				2.00
	Rate per m	Say			202.20
18.6.4	PN - 16 Pipe, 32 mm OD (SDR -7.4).				
	Details of cost for 10 metre.				
	MATERIAL:				
8628	Poly propylene - Random - Co - poymer (PPR) pipes SDR 7.4 - 32 mm Outer dia	metre	10	107.47	1074.70 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 1074.7 / 100=322.41				322.41
	LABOUR:				
116	Fitter (grade 1)	day	0.12	420.00	50.40
114	Beldar	day	0.25	306.00	76.50
	Trenching and refilling etc.				0.00
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				1935.85
	Add Water Charges @ 1%				19.36
	TOTAL				1955.21 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				274.71
	Total				2229.92 (Y)
	Add CPOH @ 15% on Y				334.49
	Cost of 10 metre				2564.40
	Cost of 1 metre				256.44
	Add 1% labour cess				2.56
	Rate per m	Say			259.00
18.6.5	PN - 16 Pipe, 40 mm OD (SDR -7.4).				
	Details of cost for 10 metre.				
	MATERIAL:				
8629	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 40 mm Outer dia	metre	10	162.00	1620.00 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 1620 / 100=486				486.00
	LABOUR:				














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
116	Fitter (grade 1)	day	0.16	420.00	67.20
114	Beldar	day	0.33	306.00	100.98
	Trenching and refilling etc.				0.00
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				2686.02
	Add Water Charges @ 1%				26.86
	TOTAL				2712.88 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				381.16
	Total				3094.04 (Y)
	Add CPOH @ 15% on Y				464.11
	Cost of 10 metre				3558.15
	Cost of 1 metre				355.81
	Add 1% labour cess				3.56
	Rate per m	Say			359.40
18.6.6	PN - 16 Pipe, 50 mm OD (SDR -7.4).				
	Details of cost for 10 metre.				
	MATERIAL:				
8630	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 50 mm Outer dia	metre	10	255.00	2550.00 X
	Add 30% for fittings and wastage etc. on X				
	on X = 30 X 2550 / 100=765				765.00
	LABOUR:				
116	Fitter (grade 1)	day	0.16	420.00	67.20
114	Beldar	day	0.33	306.00	100.98
	Trenching and refilling etc.				0.00
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				3895.02
	Add Water Charges @ 1%				38.95
	TOTAL				3933.97 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				552.72
	Total				4486.69 (Y)
	Add CPOH @ 15% on Y				673.00
	Cost of 10 metre				5159.70
	Cost of 1 metre				515.97
	Add 1% labour cess				5.16
	Rate per m	Say			521.10
18.6.7	PN - 16 Pipe, 63 mm OD (SDR -7.4).				
	Details of cost for 10 metre.				
	MATERIAL:				
8631	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 63 mm Outer dia	metre	10	285.00	2850.00 X
	Add 30% for fittings and wastage etc. on X				
	on X = 30 X 2850 / 100=855				855.00
	LABOUR:				
116	Fitter (grade 1)	day	0.25	420.00	105.00
114	Beldar	day	0.66	306.00	201.96
	Trenching and refilling etc.				0.00
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				4423.80
	Add Water Charges @ 1%				44.24
	TOTAL				4468.04 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				627.76
	Total				5095.80 (Y)
	Add CPOH @ 15% on Y				764.37

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10 metre				5860.17
	Cost of 1 metre				586.02
	Add 1% labour cess				5.86
	Rate per m	Say			591.90
18.6.8	PN - 16 Pipe, 75 mm OD (SDR -7.4).				
	Details of cost for 10 metre.				
	MATERIAL:				
8632	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 75 mm Outer dia	metre	10	425.00	4250.00 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 4250 / 100=1275				1275.00
	LABOUR:				
116	Fitter (grade 1)	day	0.25	420.00	105.00
114	Beldar	day	0.66	306.00	201.96
	Trenching and refilling etc.				0.00
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				6243.80
	Add Water Charges @ 1%				62.44
	TOTAL				6306.24 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				886.03
	Total				7192.26 (Y)
	Add CPOH @ 15% on Y				1078.84
	Cost of 10 metre				8271.10
	Cost of 1 metre				827.11
	Add 1% labour cess				8.27
	Rate per m	Say			835.40
18.6.9	PN - 16 Pipe, 90 mm OD (SDR -7.4).				
	Details of cost for 10 metre.				
	MATERIAL:				
8633	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 90 mm Outer dia	metre	10	600.00	6000.00 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 6000 / 100=1800				1800.00
	LABOUR:				
116	Fitter (grade 1)	day	0.37	420.00	155.40
114	Beldar	day	0.97	306.00	296.82
	Trenching and refilling etc.				0.00
114	Beldar	day	0.8	306.00	244.80
115	Coolie	day	0.8	318.00	254.40
	TOTAL				8751.42
	Add Water Charges @ 1%				87.51
	TOTAL				8838.93 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				1241.87
	Total				10080.80 (Y)
	Add CPOH @ 15% on Y				1512.12
	Cost of 10 metre				11592.93
	Cost of 1 metre				1159.29
	Add 1% labour cess				11.59
	Rate per m	Say			1170.90
18.6.10	PN - 10 Pipe, 110 mm OD (SDR -11).				
	Details of cost for 10 metre.				
	MATERIAL:				
8634	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11 - 110 mm Outer dia	metre	10.00	890.00	8900.00 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 8900 / 100=2670				2670.00









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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
116	Fitter (grade 1)	day	0.37	420.00	155.40
114	Beldar	day	0.97	306.00	296.82
	Trenching and refilling etc.				
114	Beldar	day	0.8	306.00	244.80
115	Coolie	day	0.8	318.00	254.40
	TOTAL				12521.42
	Add Water Charges @ 1%				125.21
	TOTAL				12646.63 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				1776.85
	Total				14423.49 (Y)
	Add CPOH @ 15% on Y				2163.52
	Cost of 10 metre				16587.01
	Cost of 1 metre				1658.70
	Add 1% labour cess				16.59
	Rate per m	Say			1675.30
18.6.11	PN - 10 Pipe, 160 mm OD (SDR -11).				
	Details of cost for 10 metre.				
	MATERIAL:				
8635	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11- 160 mm Outer dia	metre	10.00	2575.00	25750.00 X
	Add 30% for fittings and wastage etc. on X				
	on X = 30 X 25750 / 100=7725				7725.00
	LABOUR:				
116	Fitter (grade 1)	day	0.58	420.00	243.60
114	Beldar	day	1.54	306.00	471.24
	Trenching and refilling etc.				
114	Beldar	day	1.20	306.00	367.20
115	Coolie	day	1.20	318.00	381.60
	TOTAL				34938.64
	Add Water Charges @ 1%				349.39
	TOTAL				35288.03 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				4957.97
	Total				40245.99 (Y)
	Add CPOH @ 15% on Y				6036.90
	Cost of 10 metre				46282.89
	Cost of 1 metre				4628.29
	Add 1% labour cess				46.28
	Rate per m	Say			4674.60
18.6A	Providing and fixing PPR Unions				
18.6A.1	PPR Union 20mm				
	Details of cost for 1 No				
	MATERIAL:				
8306	PPR Union 20mm	each	1.00	60.00	60.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
0116	Fitter (grade 1)	day	0.11	420.00	46.20
0114	Beldar	day	0.11	306.00	33.66
	TOTAL				143.72 W
	Add 1 % Water charges on "W"				1.44
	TOTAL				145.16 X
	Add GST on "X" (multiplying factor 0.1405)				20.39
	TOTAL				165.55 Y
	Add 15% CPOH on "Y"				24.83
	TOTAL				190.38 Z
	Add Cess @ 1% on "Z"				1.90
	Cost of 1 No				192.29
	Say				192.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.6A.2	PPR Union 25mm				
	Details of cost for 1 No				
	MATERIAL:				
8307	PPR Union 25mm	each	1.00	110.00	110.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
0116	Fitter (grade 1)	day	0.11	420.00	46.20
0114	Beldar	day	0.11	306.00	33.66
	TOTAL				193.72 W
	Add 1 % Water charges on "W"				1.94
	TOTAL				195.66 X
	Add GST on "X" (multiplying factor 0.1405)				27.49
	TOTAL				223.15 Y
	Add 15% CPOH on "Y"				33.47
	TOTAL				256.62 Z
	Add Cess @ 1% on "Z"				2.57
	Cost of 1 No				259.18
	Say				259.20
18.6A.3	PPR Union 32mm				
	Details of cost for 1 No				
	MATERIAL:				
8308	PPR Union 32mm	each	1.00	150.00	150.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
0116	Fitter (grade 1)	day	0.11	420.00	46.20
0114	Beldar	day	0.11	306.00	33.66
	TOTAL				233.72 W
	Add 1 % Water charges on "W"				2.34
	TOTAL				236.06 X
	Add GST on "X" (multiplying factor 0.1405)				33.17
	TOTAL				269.22 Y
	Add 15% CPOH on "Y"				40.38
	TOTAL				309.60 Z
	Add Cess @ 1% on "Z"				3.10
	Cost of 1 No				312.70
	Say				312.70
18.6A.4	PPR Union 40mm				
	Details of cost for 1 No				
	MATERIAL:				
8309	PPR Union 40mm	each	1.00	220.00	220.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
0116	Fitter (grade 1)	day	0.11	420.00	46.20
0114	Beldar	day	0.11	306.00	33.66
	TOTAL				303.72 W
	Add 1 % Water charges on "W"				3.04
	TOTAL				306.76 X
	Add GST on "X" (multiplying factor 0.1405)				43.10
	TOTAL				349.85 Y
	Add 15% CPOH on "Y"				52.48
	TOTAL				402.33 Z
	Add Cess @ 1% on "Z"				4.02
	Cost of 1 No				406.36
	Say				406.40
18.6A.5	PPR Union 50mm				
	Details of cost for 1 No				
	MATERIAL:				







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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8310	PPR Union 50mm	each	1.00	410.00	410.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
0116	Fitter (grade 1)	day	0.11	420.00	46.20
0114	Beldar	day	0.11	306.00	33.66
	TOTAL				493.72 W
	Add 1 % Water charges on "W"				4.94
	TOTAL				498.66 X
	Add GST on "X" (multiplying factor 0.1405)				70.06
	TOTAL				568.72 Y
	Add 15% CPOH on "Y"				85.31
	TOTAL				654.02 Z
	Add Cess @ 1% on "Z"				6.54
	Cost of 1 No				660.56
	Say				660.60
18.6A.6	PPR Union 63mm				
	Details of cost for 1 No				
	MATERIAL:				
8311	PPR Union 63mm	each	1.00	550.00	550.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
0116	Fitter (grade 1)	day	0.11	420.00	46.20
0114	Beldar	day	0.11	306.00	33.66
	TOTAL				633.72 W
	Add 1 % Water charges on "W"				6.34
	TOTAL				640.06 X
	Add GST on "X" (multiplying factor 0.1405)				89.93
	TOTAL				729.98 Y
	Add 15% CPOH on "Y"				109.50
	TOTAL				839.48 Z
	Add Cess @ 1% on "Z"				8.39
	Cost of 1 No				847.88
	Say				847.90
18.6A.7	PPR Union 75mm				
	Details of cost for 1 No				
	MATERIAL:				
8312	PPR Union 75mm	each	1.00	1100.00	1100.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
0116	Fitter (grade 1)	day	0.11	420.00	46.20
0114	Beldar	day	0.11	306.00	33.66
	TOTAL				1183.72 W
	Add 1 % Water charges on "W"				11.84
	TOTAL				1195.56 X
	Add GST on "X" (multiplying factor 0.1405)				167.98
	TOTAL				1363.53 Y
	Add 15% CPOH on "Y"				204.53
	TOTAL				1568.06 Z
	Add Cess @ 1% on "Z"				15.68
	Cost of 1 No				1583.74
	Say				1583.70








Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge.				
	Internal work - Exposed on wall.				
18.7.1	15 mm nominal outer dia pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
8636	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia	metre	10	49.00	490.00 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 490 / 100=147				147.00
9999	Cement, sand and grit etc.	L.S.	2.73	2.12	5.79
	LABOUR:				0.00
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.82	369.00	302.58
114	Beldar	day	0.66	306.00	201.96
	TOTAL				1285.93
	Add Water Charges @ 1%				12.86
	TOTAL				1298.79 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				182.48
	Total				1481.27 (Y)
	Add CPOH @ 15% on Y				222.19
	Cost of 10 metre				1703.46
	Cost of 1 metre				170.35
	Add 1% labour cess				1.70
	Rate per m	Say			172.00
18.7.2	20 mm nominal outer dia pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
8637	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia	metre	10	80.00	800.00 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 800 / 100=240				240.00
9999	Cement, sand and grit etc.	L.S.	2.73	2.12	5.79
	LABOUR:				0.00
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.98	369.00	361.62
114	Beldar	day	0.66	306.00	201.96
	TOTAL				1747.97
	Add Water Charges @ 1%				17.48
	TOTAL				1765.45 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				248.05
	Total				2013.49 (Y)
	Add CPOH @ 15% on Y				302.02
	Cost of 10 metre				2315.52
	Cost of 1 metre				231.55
	Add 1% labour cess				2.32
	Rate per m	Say			233.90
18.7.3	25 mm nominal outer dia pipes				
	Details of cost for 10 metre.				
	MATERIAL:				
8638	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia	metre	10	127.97	1279.70 X
	Add 30% for fittings and wastage etc. on X				













Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	on X = 30 X 1279.7 / 100=383.91				383.91
9999	Cement, sand and grit etc.	L.S.	2.73	2.12	5.79
	LABOUR:				0.00
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.98	369.00	361.62
114	Beldar	day	0.66	306.00	201.96
	TOTAL				2371.58
	Add Water Charges @ 1%				23.72
	TOTAL				2395.29 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				336.54
	Total				2731.83 (Y)
	Add CPOH @ 15% on Y				409.77
	Cost of 10 metre				3141.61
	Cost of 1 metre				314.16
	Add 1% labour cess				3.14
	Rate per m	Say			317.30
18.7.4	32 mm nominal outer dia pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
8639	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia	metre	10	165.00	1650.00 X
	Add 30% for fittings and wastage etc. on X				
	on X = 30 X 1650 / 100=495				495.00
9999	Cement, sand and grit etc.	L.S.	4.16	2.12	8.82
	LABOUR:				0.00
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.98	369.00	361.62
114	Beldar	day	0.98	306.00	299.88
	TOTAL				2953.92
	Add Water Charges @ 1%				29.54
	TOTAL				2983.46 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				419.18
	Total				3402.63 (Y)
	Add CPOH @ 15% on Y				510.40
	Cost of 10 metre				3913.03
	Cost of 1 metre				391.30
	Add 1% labour cess				3.91
	Rate per m	Say			395.20
18.7.5	40 mm nominal outer dia pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
8640	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer dia	metre	10	230.00	2300.00 X
	Add 30% for fittings and wastage etc. on X				
	on X = 30 X 2300 / 100=690				690.00
9999	Cement, sand and grit	L.S.	5.33	2.12	11.30
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	1.31	369.00	483.39
114	Beldar	day	1.31	306.00	400.86
	TOTAL				4024.15
	Add Water Charges @ 1%				40.24
	TOTAL				4064.39 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				571.05
	Total				4635.44 (Y)
	Add CPOH @ 15% on Y				695.32
	Cost of 10 metre				5330.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 metre				533.08
	Add 1% labour cess				5.33
	Rate per m	Say			538.40
18.7.6	50 mm nominal outer dia pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
8641	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer dia	metre	10	375.25	3752.50 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 375.25 / 100=1125.75				1125.75
9999	Cement, sand and grit etc	L.S.	5.33	2.12	11.30
	LABOUR:				0.00
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	1.31	369.00	483.39
114	Beldar	day	1.31	306.00	400.86
	TOTAL				5912.40
	Add Water Charges @ 1%				59.12
	TOTAL				5971.52 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				839.00
	Total				6810.52 (Y)
	Add CPOH @ 15% on Y				1021.58
	Cost of 10 metre				7832.10
	Cost of 1 metre				783.21
	Add 1% labour cess				7.83
	Rate per m	Say			791.00
18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. 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 wall etc.				
18.8.1	15 mm nominal outer dia pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
8636	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia	metre	10	49.00	490.00 X
	Add 75% for fittings, clamps and wastage on X = 75 X 490 / 100=367.5				367.50
	Making chases up to 7.5x7.5 cm in walls and making good the same				
18.78	Rate as per Item Number 18.78 of SH: Water supply	metre	10	84.51	845.09 A
	LABOUR:				0.00
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
114	Beldar	day	0.66	306.00	201.96
	TOTAL				2286.69
	Add Water Charges @ 1% except on A i.e on				14.42
	TOTAL				2301.11 (Z)
	Add GST 12% on "Z" except on A (multiplying factor 0.1405)				204.57
	Total				2505.68 (Y)
	Add CPOH @ 15% on Y except on A i.e on				249.09
	Cost of 10 metre				2754.77
	Cost of 1 metre				275.48
	Add 1% labour cess				2.75
	Rate per m	Say			278.20









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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.8.2	20 mm nominal outer dia pipes. Details of cost for 10 metre. MATERIAL:				
8637	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia Add 75% for fittings, clamps and wastage on $X = 75 \times 800 / 100 = 600$ Making chases up to 7.5x7.5 cm in walls and making good the same	metre	10	80.00	800.00
					600.00
18.78	Rate as per Item Number 18.78 of SH: Water supply LABOUR:	metre	10	84.51	845.09 A
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
114	Beldar	day	0.66	306.00	201.96
	TOTAL				2829.19
	Add Water Charges @ 1% except on A i.e on TOTAL				19.84
	Add GST 12% on "Z" except on A (multiplying factor 0.1405)				2849.03 (Z)
	Total				3130.59 (Y)
	Add CPOH @ 15% on Y except on A i.e on Cost of 10 metre				342.82
	Cost of 1 metre				3473.41
	Add 1% labour cess				347.34
	Rate per m	Say			350.80
18.8.3	25 mm nominal outer dia pipes. Details of cost for 10 metre. MATERIAL:				
8638	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia Add 75% for fittings, clamps and wastage on $X = 75 \times 1279.7 / 100 = 959.775$ Making chases up to 7.5x7.5 cm in walls and making good the same	metre	10	127.97	1279.70 X
					959.78
18.78	Rate as per Item Number 18.78 of SH: Water supply LABOUR:	metre	10	84.51	845.09 A
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
114	Beldar	day	0.66	306.00	201.96
	TOTAL				3668.67
	Add Water Charges @ 1% except on A i.e on TOTAL				28.24
	Add GST 12% on "Z" except on A (multiplying factor 0.1405)				3696.90 (Z)
	Total				400.68
	Add CPOH @ 15% on Y except on A i.e on Cost of 10 metre				4097.58 (Y)
	Cost of 1 metre				487.87
	Add 1% labour cess				4585.46
	Rate per m	Say			463.10
18.8.4	32 mm nominal outer dia pipes. Details of cost for 10 metre. MATERIAL:				
8639	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia Add 75% for fittings, clamps and wastage	metre	10	165.00	1650.00 X

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	on X = $75 \times 1650 / 100 = 1237.5$				1237.50
	Making chases up to 7.5x7.5 cm in walls and making good the same				
18.78	Rate as per Item Number 18.78 of SH: Water supply	metre	10	84.51	845.09 A
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
114	Beldar	day	0.66	306.00	201.96
	TOTAL				4316.69
	Add Water Charges @ 1% except on A i.e on				34.72
	TOTAL				4351.41 (Z)
	Add GST 12% on "Z" except on A (multiplying factor 0.1405)				492.64
	Total				4844.05 (Y)
	Add CPOH @ 15% on Y except on A i.e on				599.84
	Cost of 10 metre				5443.89
	Cost of 1 metre				544.39
	Add 1% labour cess				5.44
	Rate per m	Say			549.80
18.9	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 & testing of joints complete as per direction of Engineer-in-Charge. External work.				
18.9.1	15 mm nominal outer dia pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
8636	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia	metre	10	49.00	490.00 X
	Add 30% for fittings and wastage etc. on X				
	on X = $30 \times 490 / 100 = 147$				147.00
	LABOUR:				
116	Fitter (grade 1)	day	0.08	420.00	33.60
114	Beldar	day	0.16	306.00	48.96
	Trenching and refilling etc.				
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				1131.40
	Add Water Charges @ 1%				11.31
	TOTAL				1142.71 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				160.55
	Total				1303.27 (Y)
	Add CPOH @ 15% on "Y"				195.49
	Cost of 10 metre				1498.76
	Cost of 1 metre				149.88
	Add 1% labour cess				1.50
	Rate per m	Say			151.40
18.9.2	20 mm nominal outer dia pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
8637	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia	metre	10	80.00	800.00 X
	Add 30% for fittings and wastage etc. on X				
	on X = $30 \times 800 / 100 = 240$				240.00
	LABOUR:				
116	Fitter (grade 1)	day	0.08	420.00	33.60
114	Beldar	day	0.16	306.00	48.96








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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Trenching and refilling etc.				
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				1534.40
	Add Water Charges @ 1%				15.34
	TOTAL				1549.74 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				217.74
	Total				1767.48 (Y)
	Add CPOH @ 15% on "Y"				265.12
	Cost of 10 metre				2032.61
	Cost of 1 metre				203.26
	Add 1% labour cess				2.03
	Rate per m	Say			205.30
18.9.3	25 mm nominal outer dia pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
8638	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia	metre	10	127.97	1279.70 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 1279.7 / 100=383.91				383.91
	LABOUR:				
116	Fitter (grade 1)	day	0.12	420.00	50.40
114	Beldar	day	0.25	306.00	76.50
	Trenching and refilling etc.				0.00
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				2202.35
	Add Water Charges @ 1%				22.02
	TOTAL				2224.37 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				312.52
	Total				2536.90 (Y)
	Add CPOH @ 15% on "Y"				380.53
	Cost of 10 metre				2917.43
	Cost of 1 metre				291.74
	Add 1% labour cess				2.92
	Rate per m	Say			294.70
18.9.4	32 mm nominal outer dia pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
8639	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia	metre	10	165.00	1650.00 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 1650 / 100=495				495.00
	LABOUR:				
116	Fitter (grade 1)	day	0.12	420.00	50.40
114	Beldar	day	0.25	306.00	76.50
	Trenching and refilling etc.				0.00
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				2683.74
	Add Water Charges @ 1%				26.84
	TOTAL				2710.58 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				380.84
	Total				3091.41 (Y)
	Add CPOH @ 15% on "Y"				463.71
	Cost of 10 metre				3555.13
	Cost of 1 metre				355.51

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1% labour cess				3.56
	Rate per m	Say			359.10
18.9.5	40 mm nominal outer dia pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
8640	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer dia	metre	10	230.00	2300.00 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 2300 / 100=690				690.00
	LABOUR:				
116	Fitter (grade 1)	day	0.16	420.00	67.20
114	Beldar	day	0.33	306.00	100.98
	Trenching and refilling etc.				0.00
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				3570.02
	Add Water Charges @ 1%				35.70
	TOTAL				3605.72 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				506.60
	Total				4112.32 (Y)
	Add CPOH @ 15% on "Y"				616.85
	Cost of 10 metre				4729.17
	Cost of 1 metre				472.92
	Add 1% labour cess				4.73
	Rate per m	Say			477.60
18.9.6	50 mm nominal outer dia pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
8641	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer dia	metre	10	375.25	3752.50 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 3752.5 / 100=1125.75				1125.75
	LABOUR:				
116	Fitter (grade 1)	day	0.16	420.00	67.20
114	Beldar	day	0.33	306.00	100.98
	Trenching and refilling etc.				0.00
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				5458.27
	Add Water Charges @ 1%				54.58
	TOTAL				5512.85 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				774.56
	Total				6287.41 (Y)
	Add CPOH @ 15% on "Y"				943.11
	Cost of 10 metre				7230.52
	Cost of 1 metre				723.05
	Add 1% labour cess				7.23
	Rate per m	Say			730.30
18.9.7	65 mm nominal inner dia pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
8642	Chlorinated Polyvinyl - chloride (CPVC) pipe 65 mm inner dia	metre	10	793.30	7933.00 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 7933 / 100=2379.9				2379.90
	LABOUR:				














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
116	Fitter (grade 1)	day	0.25	420.00	105.00
114	Beldar	day	0.66	306.00	201.96
	Trenching and refilling etc.				0.00
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				11031.70
	Add Water Charges @ 1%				110.32
	TOTAL				11142.02 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				1565.45
	Total				12707.47 (Y)
	Add CPOH @ 15% on "Y"				1906.12
	Cost of 10 metre				14613.59
	Cost of 1 metre				1461.36
	Add 1% labour cess				14.61
	Rate per m	Say			1476.00
18.9.8	80 mm nominal inner dia pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
8643	Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner dia	metre	10	1031.05	10310.50 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 10310.5 / 100=3093.15				3093.15
	LABOUR:				
116	Fitter (grade 1)	day	0.25	420.00	105.00
114	Beldar	day	0.66	306.00	201.96
	Trenching and refilling etc.				0.00
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				14122.45
	Add Water Charges @ 1%				141.22
	TOTAL				14263.67 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				2004.05
	Total				16267.72 (Y)
	Add CPOH @ 15% on "Y"				2440.16
	Cost of 10 metre				18707.88
	Cost of 1 metre				1870.79
	Add 1% labour cess				18.71
	Rate per m	Say			1889.50
18.9.9	100 mm nominal inner dia pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
8644	Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner dia	metre	10	1466.75	14667.50 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 14667.5 / 100=4400.25				4400.25
	LABOUR:				
116	Fitter (grade 1)	day	0.37	420.00	155.40
114	Beldar	day	0.97	306.00	296.82
	Trenching and refilling etc.				
114	Beldar	day	0.8	306.00	244.80
115	Coolie	day	0.8	318.00	254.40
	TOTAL				20019.17
	Add Water Charges @ 1%				200.19
	TOTAL				20219.36 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				2840.82
	Total				23060.18 (Y)
	Add CPOH @ 15% on "Y"				3459.03

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10 metre				26519.21
	Cost of 1 metre				2651.92
	Add 1% labour cess				26.52
	Rate per m	Say			2678.40
18.9.10	150 mm nominal inner dia pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
8645	Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner dia	metre	10	3145.15	31451.50 X
	Add 30% for fittings and wastage etc. on X on X = 30 X 31451.5 / 100=9435.45				9435.45
	LABOUR:				
116	Fitter (grade 1)	day	0.58	420.00	243.60
114	Beldar	day	1.54	306.00	471.24
	Trenching and refilling etc.				0.00
114	Beldar	day	1.2	306.00	367.20
115	Coolie	day	1.2	318.00	381.60
	TOTAL				42350.59
	Add Water Charges @ 1%				423.51
	TOTAL				42774.10 (Z)
	Add GST 12% on "Z" (multiplying factor 0.1405)				6009.76
	Total				48783.86 (Y)
	Add CPOH @ 15% on "Y"				7317.58
	Cost of 10 metre				56101.43
	Cost of 1 metre				5610.14
	Add 1% labour cess				56.10
	Rate per m	Say			5666.20
18.10	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.				
18.10.1	15 mm dia nominal bore.				
	Details of cost for 10 metre.				
	MATERIAL:				
1545	G.I. pipes 15 mm dia	metre	11.5	95.00	1092.50
	Weight for carriage = pipe weight + 15% for fittings = 1.15 X 12.30 = 14.145 kg = 0.014145 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.014145	145.72	2.06
9999	White lead, hemp, oil etc	L.S.	8.06	2.12	17.09
9999	Cement, sand and grit etc.	L.S.	2.73	2.12	5.79
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
114	Beldar	day	0.66	306.00	201.96
	TOTAL				1701.54
	Add Water Charges @ 1%				17.02
	TOTAL				1718.55 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				241.46
	Total				1960.01 (Y)
	Add CPOH @ 15% on "Y"				294.00
	Cost of 10 metre				2254.01
	Cost of 1 metre				225.40
	Add 1% labour cess				2.25
	Rate per m	Say			227.70
18.10.2	20 mm dia nominal bore.				
	Details of cost for 10 metre.				
	MATERIAL:				














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1546	G.I. pipes 20 mm dia Weight for carriage = pipe weight + 15% for fittings = 1.15 X 15.90 = 18.285 kg = 0.018285 tonne	metre	11.5	130.00	1495.00
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.0183	145.72	2.66
9999	White lead, hemp, oil etc	L.S.	8.06	2.12	17.09
9999	Cement, sand and grit etc.	L.S.	2.73	2.12	5.79
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.82	369.00	302.58
114	Beldar	day	0.66	306.00	201.96
	TOTAL				2163.68
	Add Water Charges @ 1%				21.64
	TOTAL				2185.32 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				307.04
	Total				2492.35 (Y)
	Add CPOH @ 15% on "Y"				373.85
	Cost of 10 metre				2866.21
	Cost of 1 metre				286.62
	Add 1% labour cess				2.87
	Rate per m	Say			289.50
18.10.3	25 mm dia nominal bore. Details of cost for 10 metre. MATERIAL:				
1547	G.I. pipes 25 mm dia Weight for carriage = pipe weight + 15% for fittings = 1.15 X 24.60 = 28.29 kg = 0.02829 tonne	metre	11.5	196.00	2254.00
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.02829	145.72	4.12
9999	White lead, hemp, oil etc	L.S.	9.49	2.12	20.12
9999	Cement, sand and grit etc.	L.S.	4.16	2.12	8.82
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.98	369.00	361.62
114	Beldar	day	0.66	306.00	201.96
	TOTAL				2989.24
	Add Water Charges @ 1%				29.89
	TOTAL				3019.13 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				424.19
	Total				3443.32 (Y)
	Add CPOH @ 15% on "Y"				516.50
	Cost of 10 metre				3959.82
	Cost of 1 metre				395.98
	Add 1% labour cess				3.96
	Rate per m	Say			399.90
18:10:04	32 mm dia nominal bore. Details of cost for 10 metre. MATERIAL:				
1548	G.I. pipes 32 mm dia Weight for carriage = pipe weight + 15% for fittings = 1.15 X 31.70 = 36.455 kg = 0.036455 tonne	metre	11.5	225.00	2587.50
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.0365	145.72	5.31
9999	White lead, hemp, oil etc	L.S.	9.49	2.12	20.12
9999	Cement, sand and grit etc.	L.S.	4.16	2.12	8.82
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.98	369.00	361.62

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
114	Beldar	day	0.98	306.00	299.88
	TOTAL				3421.85
	Add Water Charges @ 1%				34.22
	TOTAL				3456.07 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				485.58
	Total				3941.65 (Y)
	Add CPOH @ 15% on "Y"				591.25
	Cost of 10 metre				4532.89
	Cost of 1 metre				453.29
	Add 1% labour cess				4.53
	Rate per m	Say			457.80
18.10.05	40 mm dia nominal bore.				
	Details of cost for 10 metre.				
	MATERIAL:				
1549	G.I. pipes 40 mm dia	metre	11.5	290.00	3335.00
	Weight for carriage = pipe weight + 15% for fittings =				
	1.15 X 36.50 = 41.975 kg = 0.041975 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.0420	145.72	6.12
9999	White lead, hemp, oil etc	L.S.	13.52	2.12	28.66
9999	Cement, sand and grit etc.	L.S.	5.33	2.12	11.30
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	1.31	369.00	483.39
114	Beldar	day	1.31	306.00	400.86
	TOTAL				4403.93
	Add Water Charges @ 1%				44.04
	TOTAL				4447.97 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				624.94
	Total				5072.91 (Y)
	Add CPOH @ 15% on "Y"				760.94
	Cost of 10 metre				5833.84
	Cost of 1 metre				583.38
	Add 1% labour cess				5.83
	Rate per m	Say			589.20
18.10.06	50 mm dia nominal bore.				
	Details of cost for 10 metre.				
	MATERIAL:				
1550	G.I. pipes 50 mm dia	metre	11.5	360.00	4140.00
	Weight for carriage = pipe weight + 15% for fittings =				
	1.15 X 51.70 = 59.455 kg = 0.059455 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.059	145.72	8.66
9999	White lead, hemp, oil etc	L.S.	13.52	2.12	28.66
9999	Cement, sand and grit etc.	L.S.	5.33	2.12	11.30
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	1.64	369.00	605.16
114	Beldar	day	1.64	306.00	501.84
	TOTAL				5434.23
	Add Water Charges @ 1%				54.34
	TOTAL				5488.57 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				771.14
	Total				6259.71 (Y)
	Add CPOH @ 15% on "Y"				938.96
	Cost of 10 metre				7198.67
	Cost of 1 metre				719.87














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1% labour cess				7.20
	Rate per m	Say			727.10
18.11	Providing & Fixing GI pipes complete with GI fittings and clamps including making good the walls etc. concealed pipe including painting with anti corrosive bitumastic paint, cutting chases and making good the wall.				
18.11.1	15 mm dia nominal bore.				
	Details of cost for 10 metre.				
	MATERIAL:				
1545	G.I. pipes 15 mm dia	metre	11.5	95.00	1092.50
	Weight for carriage = pipe weight + 15% for fittings =				
	1.15 X 12.30 = 14.145 kg = 0.014145 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.014	145.72	2.06
9999	White lead, hemp, oil etc	L.S.	8.06	2.12	17.09
	Painting G.I. pipe with anti-corrosive bitu mastic paint two or more coats				
18.40.1	Rate as per Item Number 18.40.1 of SH: Water supply	metre	10	6.63	66.31 A
	Making chases upto 7.5x7.5cm in walls and making good the same	metre	10	84.51	845.09 A
	Rate as per Item Number 18.78 of SH: Water supply				
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
114	Beldar	day	0.66	306.00	201.96
	TOTAL				2607.16
	Add Water Charges @ 1% except on A i.e on TOTAL				16.96
	Add GST 12% on "X" except A (multiplying factor 0.1405)				2624.11 (X)
	Total				240.64
	Add CPOH @ 15% on "Y" except A				2864.75 (Y)
	Cost of 10 metre				293.00
	Cost of 1 metre				3157.75
	Add 1% labour cess				315.78
	Rate per m	Say			3.16
	18.11.2 20 mm dia nominal bore.				318.90
	Details of cost for 10 metre.				
	MATERIAL:				
1546	G.I. pipes 20 mm dia	metre	11.50	130.00	1495.00
	Weight for carriage = pipe weight + 15% for fittings =				
	1.15 X 15.90 = 18.285 kg = 0.018285 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.018285	145.72	2.66
9999	White lead, hemp, oil etc	L.S.	8.06	2.12	17.09
	Painting G.I. pipe with anti-corrosive bitu mastic paint two or more coats				
18.40.2	Rate as per Item Number 18.40.2 of SH: Water supply	metre	10.00	7.75	77.48 A
	Making chases upto 7.5x7.5cm in walls and making good the same	metre	10.00	84.51	845.09 A
18.78	Rate as per Item Number 18.78 of SH: Water supply	metre	10.00	84.51	845.09 A
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
114	Beldar	day	0.66	306.00	201.96
	TOTAL				3021.42
	Add Water Charges @ 1% except on A i.e on				20.99
	TOTAL				3042.41 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				297.84
	Total				3340.25 (Y)
	Add CPOH @ 15% on "Y" except A				362.65
	Cost of 10 metre				3702.90
	Cost of 1 metre				370.29
	Add 1% labour cess				3.70
	Rate per m			Say	374.00
18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work.				
18.12.1	15 mm dia nominal bore.				
	Details of cost for 10 metre				
	MATERIAL:				
1545	G.I. pipes 15 mm dia	metre	10.2	95.00	969.00
	Weight for carriage = pipe weight + 2% for fittings =				
	1.02 X 12.30 = 12.546 kg = 0.012546 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.012546	145.72	1.83
9999	White lead, hemp, oil etc	L.S.	5.33	2.12	11.30
	LABOUR:				
116	Fitter (grade 1)	day	0.08	420.00	33.60
114	Beldar	day	0.16	306.00	48.96
	Trenching and refilling etc.				
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				1476.53
	Add Water Charges @ 1%				14.77
	TOTAL				1491.29 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				209.53
	Total				1700.82 (Y)
	Add CPOH @ 15% on "Y"				255.12
	Cost of 10 metre				1955.94
	Cost of 1 metre				195.59
	Add 1% labour cess				1.96
	Rate per m			Say	197.60
18.12.2	20 mm dia nominal bore.				
	Details of cost for 10 metre.				
	MATERIAL:				
1546	G.I. pipes 20 mm dia	metre	10.2	130.00	1326.00
	Weight for carriage = pipe weight + 2% for fittings =				
	1.02 X 15.90 = 16.218 kg = 0.016218 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.016218	145.72	2.36
9999	White lead, hemp, oil etc	L.S.	5.33	2.12	11.30
	LABOUR:				
116	Fitter (grade 1)	day	0.08	420.00	33.60
114	Beldar	day	0.16	306.00	48.96
	Trenching and refilling etc.				
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				1834.06
	Add Water Charges @ 1%				18.34














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1852.40 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				260.26
	Total				2112.67 (Y)
	Add CPOH @ 15% on "Y"				316.90
	Cost of 10 metre				2429.57
	Cost of 1 metre				242.96
	Add 1% labour cess				2.43
	Rate per m		Say		245.40
18.12.3	25 mm dia nominal bore.				
	Details of cost for 10 metre.				
	MATERIAL:				
1547	G.I. pipes 25 mm dia	metre	10.2	196.00	1999.20
	Weight for carriage = pipe weight + 2% for fittings =				
	1.02 X 24.60 = 25.092 kg = 0.025092 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.025092	145.72	3.66
9999	White lead, hemp, oil etc	L.S.	6.76	2.12	14.33
	LABOUR:				
116	Fitter (grade 1)	day	0.12	420.00	50.40
114	Beldar	day	0.25	306.00	76.50
	Trenching and refilling etc.				
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				2555.93
	Add Water Charges @ 1%				25.56
	TOTAL				2581.49 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				362.70
	Total				2944.19 (Y)
	Add CPOH @ 15% on "Y"				441.63
	Cost of 10 metre				3385.81
	Cost of 1 metre				338.58
	Add 1% labour cess				3.39
	Rate per m		Say		342.00
18.12.4	32 mm dia nominal bore.				
	Details of cost for 10 metre.				
	MATERIAL:				
1548	G.I. pipes 32 mm dia	metre	10.2	225.00	2295.00
	Weight for carriage = pipe weight + 2% for fittings =				
	1.02 X 31.70 = 32.334 kg = 0.032334 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.032	145.72	4.71
9999	White lead, hemp, oil etc	L.S.	6.76	2.12	14.33
	LABOUR:				
116	Fitter (grade 1)	day	0.12	420.00	50.40
114	Beldar	day	0.25	306.00	76.50
	Trenching and refilling etc.				
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				2852.78
	Add Water Charges @ 1%				28.53
	TOTAL				2881.31 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				404.82
	Total				3286.13 (Y)
	Add CPOH @ 15% on "Y"				492.92
	Cost of 10 metre				3779.06
	Cost of 1 metre				377.91
	Add 1% labour cess				3.78
	Rate per m		Say		381.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.12.5	40 mm dia nominal bore. Details of cost for 10 metre. MATERIAL:				
1549	G.I. pipes 40 mm dia Weight for carriage = pipe weight + 2% for fittings = 1.02 X 36.50 = 37.23 kg = 0.03723 tonne	metre	10.2	290.00	2958.00
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.03723	145.72	5.43
9999	White lead, hemp, oil etc	L.S.	9.49	2.12	20.12
	LABOUR:				
116	Fitter (grade 1)	day	0.16	420.00	67.20
114	Beldar	day	0.33	306.00	100.98
	Trenching and refilling etc.				
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				3563.56
	Add Water Charges @ 1%				35.64
	TOTAL				3599.20 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				505.69
	Total				4104.89 (Y)
	Add CPOH @ 15% on "Y"				615.73
	Cost of 10 metre				4720.62
	Cost of 1 metre				472.06
	Add 1% labour cess				4.72
	Rate per m		Say		476.80
18.12.6	50 mm dia nominal bore. Details of cost for 10 metre. MATERIAL:				
1550	G.I. pipes 50 mm dia Weight for carriage = pipe weight + 2% for fittings = 1.02 X 51.70 = 52.73 kg = 0.05273 tonne	metre	10.2	360.00	3672.00
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.05273	145.72	7.68
9999	White lead, hemp, oil etc	L.S.	9.49	2.12	20.12
	LABOUR:				
116	Fitter (grade 1)	day	0.16	420.00	67.20
114	Beldar	day	0.33	306.00	100.98
	Trenching and refilling etc.				
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				4279.82
	Add Water Charges @ 1%				42.80
	TOTAL				4322.62 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				607.33
	Total				4929.95 (Y)
	Add CPOH @ 15% on "Y"				739.49
	Cost of 10 metre				5669.44
	Cost of 1 metre				566.94
	Add 1% labour cess				5.67
	Rate per m		Say		572.60
18.12.7	65 mm dia nominal bore. Details of cost for 10 metre. MATERIAL:				
1551	G.I. pipes 65 mm dia Weight for carriage = pipe weight + 2% for fittings = 1.02 X 66.30 = 67.626 kg = 0.067626 tonne	metre	10.2	415.00	4233.00













Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.067626	145.72	9.85
9999	White lead, hemp, oil etc	L.S.	13.52	2.12	28.66
	LABOUR:				
116	Fitter (grade 1)	day	0.25	420.00	105.00
114	Beldar	day	0.66	306.00	201.96
	Trenching and refilling etc.				
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				4990.32
	Add Water Charges @ 1%				49.90
	TOTAL				5040.22 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				708.15
	Total				5748.37 (Y)
	Add CPOH @ 15% on "Y"				862.26
	Cost of 10 metre				6610.63
	Cost of 1 metre				661.06
	Add 1% labour cess				6.61
	Rate per m			Say	667.70
18.12.8	80 mm dia nominal bore.				
	Details of cost for 10 metre.				
	MATERIAL:				
1552	G.I. pipes 80 mm dia	metre	10.2	525.00	5355.00
	Weight for carriage = pipe weight + 2% for fittings =				
	1.02 X 86.40 = 88.128 kg = 0.088128 tonne				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.088	145.72	12.84
9999	White lead, hemp, oil etc	L.S.	13.52	2.12	28.66
	LABOUR:				
116	Fitter (grade 1)	day	0.25	420.00	105.00
114	Beldar	day	0.66	306.00	201.96
	Trenching and refilling etc.				
114	Beldar	day	0.66	306.00	201.96
115	Coolie	day	0.66	318.00	209.88
	TOTAL				6115.30
	Add Water Charges @ 1%				61.15
	TOTAL				6176.46 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				867.79
	Total				7044.25 (Y)
	Add CPOH @ 15% on "Y"				1056.64
	Cost of 10 metre				8100.89
	Cost of 1 metre				810.09
	Add 1% labour cess				8.10
	Rate per m			Say	818.20
18.13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete.				
18.13.1	25 to 40 mm nominal bore.				
	Details of cost for one connection.				
	Take 25mm dia as an average size				
	MATERIAL:				
1608	G.I. tees (equal) 25 mm	each	1.00	65.00	65.00
1555	G.I. back (jam) nuts 25 mm dia	each	1.00	18.00	18.00
9999	Carriage of materials and sundries	L.S.	5.33	2.12	11.30
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
114	Beldar	day	0.33	306.00	100.98
	TOTAL				333.88

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Water Charges @ 1%				3.34
	TOTAL				337.22 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				47.38
	Total				384.60 (Y)
	Add CPOH @ 15% on "Y"				57.69
	Cost of each				442.29
	Add 1% labour cess				4.42
	Rate	each	Say		446.70
18.13.2	50 to 80 mm nominal bore.				
	Details of cost for one connection.				
	Take 65mm dia as an average size				
	MATERIAL:				
1612	G.I. tees (equal) 65 mm	each	1.00	452.00	452.00
1559	G.I. back (jam) nuts 65 mm dia	each	1.00	25.00	25.00
9999	Carriage of materials and sundries	L.S.	5.33	2.12	11.30
	LABOUR:				
116	Fitter (grade 1)	day	0.45	420.00	189.00
114	Beldar	day	0.45	306.00	137.70
	TOTAL				815.00
	Add Water Charges @ 1%				8.15
	TOTAL				823.15 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				115.65
	Total				938.80 (Y)
	Add CPOH @ 15% on "Y"				140.82
	Cost of each				1079.62
	Add 1% labour cess				10.80
	Rate	each			1090.40
18.14	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).				
	Details of cost for one metre with stopcock.				
	MATERIAL:				
1555	G.I. back (jam) nuts 25 mm dia	each	1	18.00	18.00
9999	Carriage of materials and sundries	L.S.	5.33	2.12	11.30
116	Fitter (grade 1)	day	0.33	420.00	138.60
114	Beldar	day	0.33	306.00	100.98
	TOTAL				268.88
	Add Water Charges @ 1%				2.69
	TOTAL				271.57 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				38.16
	Total				309.72 (Y)
	Add CPOH @ 15% on "Y"				46.46
	Cost of each				356.18
	Add 1% labour cess				3.56
	Rate	each			359.70
18.15	Providing and fixing brass bib cock of approved quality.				
18.15.1	15 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1339	Brass bib-cock 15 mm dia	each	1	210.00	210.00
9999	Carriage of materials and fixing charge	L.S.	8.06	2.12	17.09
	TOTAL				227.09
	Add Water Charges @ 1%				2.27
	TOTAL				229.36 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				32.22
	Total				261.58 (Y)
	Add CPOH @ 15% on "Y"				39.24














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of each				300.82
	Add 1% labour cess				3.01
	Rate	each			303.80
18.15.2	20 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1340	Brass bib-cock 20 mm dia	each	1	225.00	225.00
9999	Carriage of materials and fixing charge	L.S.	9.49	2.12	20.12
	TOTAL				245.12
	Add Water Charges @ 1%				2.45
	TOTAL				247.57 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				34.78
	Total				282.35 (Y)
	Add CPOH @ 15% on "Y"				42.35
	Cost of each				324.71
	Add 1% labour cess				3.25
	Rate	each			328.00
18.16	Providing and fixing brass stop cock of approved quality.				
18.16.1	15 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1342	Brass stop-cock 15 mm dia	each	1.00	210.00	210.00
9999	Carriage of materials and fixing charges	L.S.	8.06	2.12	17.09
	TOTAL				227.09
	Add Water Charges @ 1%				2.27
	TOTAL				229.36 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				32.22
	Total				261.58 (Y)
	Add CPOH @ 15% on "Y"				39.24
	Cost of each				300.82
	Add 1% labour cess				3.01
	Rate	each			303.80
18.16.2	20 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1343	Brass stop-cock 20 mm dia	each	1.00	225.00	225.00
9999	Carriage of materials and fixing charges	L.S.	9.49	2.12	20.12
	TOTAL				245.12
	Add Water Charges @ 1%				2.45
	TOTAL				247.57 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				34.78
	Total				282.35 (Y)
	Add CPOH @ 15% on "Y"				42.35
	Cost of each				324.71
	Add 1% labour cess				3.25
	Rate	each			328.00
18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end).				
18.17.1	25 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1927	Brass full way valve with C.I. wheel (screwed end) 25 mm dia	each	1.00	375.00	375.00
9999	Carriage of materials and fixing charges	L.S.	10.79	2.12	22.87
	TOTAL				397.87
	Add Water Charges @ 1%				3.98

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				401.85 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				56.46
	Total				458.31 (Y)
	Add CPOH @ 15% on "Y"				68.75
	Cost of each				527.06
	Add 1% labour cess				5.27
	Rate	each			532.30
18.17.1A	20 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1926	Brass full way valve with C.I. wheel (screwed end) 25 mm dia	each	1.00	325.00	325.00
9999	Carriage of materials and fixing charges	L.S.	10.79	2.12	22.87
	TOTAL				347.87
	Add Water Charges @ 1%				3.48
	TOTAL				351.35 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				49.37
	Total				400.72 (Y)
	Add CPOH @ 15% on "Y"				60.11
	Cost of each				460.83
	Add 1% labour cess				4.61
	Rate	each			465.40
18.17.2	32 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1928	Brass full way valve with C.I. wheel (screwed end) 32 mm dia	each	1	415.00	415.00
9999	Carriage of materials and fixing charge	L.S.	12.22	2.12	25.91
	TOTAL				440.91
	Add Water Charges @ 1%				4.41
	TOTAL				445.32 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				62.57
	Total				507.88 (Y)
	Add CPOH @ 15% on "Y"				76.18
	Cost of each				584.06
	Add 1% labour cess				5.84
	Rate	each			589.90
18.17.3	40 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1929	Brass full way valve with C.I. wheel (screwed end) 40 mm dia	each	1	500.00	500.00
9999	Carriage of materials and fixing charges	L.S.	13.52	2.12	28.66
	TOTAL				528.66
	Add Water Charges @ 1%				5.29
	TOTAL				533.95 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				75.02
	Total				608.97 (Y)
	Add CPOH @ 15% on "Y"				91.35
	Cost of each				700.31
	Add 1% labour cess				7.00
	Rate	each			707.30
18.17.4	50 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1930	Brass full way valve with C.I. wheel (screwed end) 50 mm dia	each	1	625.00	625.00









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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of materials and fixing charges	L.S.	14.82	2.12	31.42
	TOTAL				656.42
	Add Water Charges @ 1%				6.56
	TOTAL				662.98 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				93.15
	Total				756.13 (Y)
	Add CPOH @ 15% on "Y"				113.42
	Cost of each				869.55
	Add 1% labour cess				8.70
	Rate	each			878.20
18.17.5	65 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1931	Brass full way valve with C.I. wheel (screwed end) 65 mm dia	each	1	1080.00	1080.00
9999	Carriage of materials and fixing charges	L.S.	16.12	2.12	34.17
	TOTAL				1114.17
	Add Water Charges @ 1%				11.14
	TOTAL				1125.32 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				158.11
	Total				1283.42 (Y)
	Add CPOH @ 15% on "Y"				192.51
	Cost of each				1475.94
	Add 1% labour cess				14.76
	Rate	each			1490.70
18.17.6	80 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1932	Brass full way valve with C.I. wheel (screwed end) 80 mm dia	each	1	1625.00	1625.00
9999	Carriage of materials and fixing charges	L.S.	18.85	2.12	39.96
	TOTAL				1664.96
	Add Water Charges @ 1%				16.65
	TOTAL				1681.61 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				236.27
	Total				1917.88 (Y)
	Add CPOH @ 15% on "Y"				287.68
	Cost of each				2205.56
	Add 1% labour cess				22.06
	Rate	each			2227.60
18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete.				
18.18.1	15 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1922	H.P. or L.P. ball valve with polythene floats: 15 mm dia	each	1.00	215.00	215.00
9999	Carriage of materials and fixing charges	L.S.	21.58	2.12	45.75
	TOTAL				260.75
	Add Water Charges @ 1%				2.61
	TOTAL				263.36 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				37.00
	Total				300.36 (Y)
	Add CPOH @ 15% on "Y"				45.05
	Cost of each				345.41
	Add 1% labour cess				3.45
	Rate	each			348.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.18.2	20 mm nominal bore. Details of cost for one no. MATERIAL:				
1923	H.P. or L.P. ball valve with polythene floats: 20 mm dia	each	1.00	240.00	240.00
9999	Carriage of materials and fixing charges	L.S.	26.91	2.12	57.05
	TOTAL				297.05
	Add Water Charges @ 1%				2.97
	TOTAL				300.02 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				42.15
	Total				342.17 (Y)
	Add CPOH @ 15% on "Y"				51.33
	Cost of each				393.50
	Add 1% labour cess				3.93
	Rate	each			397.40
18.18.3	25 mm nominal bore. Details of cost for one no. MATERIAL:				
1924	H.P. or L.P. ball valve with polythene floats: 25 mm dia	each	1.00	230.00	230.00
9999	Carriage of materials and fixing charges	L.S.	32.24	2.12	68.35
	TOTAL				298.35
	Add Water Charges @ 1%				2.98
	TOTAL				301.33 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				42.34
	Total				343.67 (Y)
	Add CPOH @ 15% on "Y"				51.55
	Cost of each				395.22
	Add 1% labour cess				3.95
	Rate	each			399.20
18.19	Providing and fixing gun metal non-return valve of approved quality (screwed end).				
18.19.1	25 mm nominal bore.				
18.19.1.1	Horizontal. Details of cost for one no. MATERIAL:				
1933	Gunmetal non-return valve-horizontal (screwed end) 25 mm dia	each	1.00	350.00	350.00
9999	Carriage of materials and fixing charges	L.S.	13.52	2.12	28.66
	TOTAL				378.66
	Add Water Charges @ 1%				3.79
	TOTAL				382.45 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				53.73
	Total				436.18 (Y)
	Add CPOH @ 15% on "Y"				65.43
	Cost of each				501.61
	Add 1% labour cess				5.02
	Rate	each			506.60
18.19.1.2	Vertical. Details of cost for one no. MATERIAL:				
3080	Gunmetal non-return valve - vertical (screwed end) 25 mm dia	each	1	400.00	400.00
9999	Carriage of materials and fixing charges	L.S.	13.52	2.12	28.66
	TOTAL				428.66
	Add Water Charges @ 1%				4.29
	TOTAL				432.95 (X)














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST 12% on "X" (multiplying factor 0.1405)				60.83
	Total				493.78 (Y)
	Add CPOH @ 15% on "Y"				74.07
	Cost of each				567.85
	Add 1% labour cess				5.68
	Rate	each			573.50
18.19.2	32 mm nominal bore.				
18.19.2.1	Horizontal.				
	Details of cost for one no.				
	MATERIAL:				
1934	Gunmetal non-return valve-horizontal (screwed end) 32 mm dia	each	1	475.00	475.00
9999	Carriage of materials and fixing charges	L.S.	14.82	2.12	31.42
	TOTAL				506.42
	Add Water Charges @ 1%				5.06
	TOTAL				511.48 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				71.86
	Total				583.35 (Y)
	Add CPOH @ 15% on "Y"				87.50
	Cost of each				670.85
	Add 1% labour cess				6.71
	Rate	each			677.60
18.19.2.2	Vertical.				
	Details of cost for one no.				
	MATERIAL:				
3084	Gunmetal non-return valve - vertical (screwed end) 32 mm dia	each	1	550.00	550.00
9999	Carriage of materials and fixing charges	L.S.	14.82	2.12	31.42
	TOTAL				581.42
	Add Water Charges @ 1%				5.81
	TOTAL				587.23 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				82.51
	Total				669.74 (Y)
	Add CPOH @ 15% on "Y"				100.46
	Cost of each				770.20
	Add 1% labour cess				7.70
	Rate	each			777.90
18.19.3	40 mm nominal bore.				
18.19.3.1	Horizontal.				
	Details of cost for one no.				
	MATERIAL:				
1935	Gunmetal non-return valve-horizontal (screwed end) 40 mm dia	each	1	575.00	575.00
9999	Carriage of materials and fixing charges	L.S.	16.12	2.12	34.17
	TOTAL				609.17
	Add Water Charges @ 1%				6.09
	TOTAL				615.27 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				86.44
	Total				701.71 (Y)
	Add CPOH @ 15% on "Y"				105.26
	Cost of each				806.97
	Add 1% labour cess				8.07
	Rate	each			815.00
18.19.3.2	Vertical.				
	Details of cost for one no.				
	MATERIAL:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3088	Gunmetal non-return valve - vertical (screwed end) 40 mm dia	each	1	750.00	750.00
					0.00
9999	Carriage of materials and fixing charges	L.S.	16.12	2.12	34.17
	TOTAL				784.17
	Add Water Charges @ 1%				7.84
	TOTAL				792.02 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				111.28
	Total				903.29 (Y)
	Add CPOH @ 15% on "Y"				135.49
	Cost of each				1038.79
	Add 1% labour cess				10.39
	Rate	each			1049.20
18.19.4	50 mm nominal bore.				
18.19.4.1	Horizontal.				
	Details of cost for one no.				
	MATERIAL:				
1936	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	1	840.00	840.00
9999	Carriage of materials and fixing charges	L.S.	17.55	2.12	37.21
	TOTAL				877.21
	Add Water Charges @ 1%				8.77
	TOTAL				885.98 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				124.48
	Total				1010.46 (Y)
	Add CPOH @ 15% on "Y"				151.57
	Cost of each				1162.03
	Add 1% labour cess				11.62
	Rate	each			1173.60
18.19.4.2	Vertical.				
	Details of cost for one no.				
	MATERIAL:				
3092	Gunmetal non-return valve - vertical (screwed end) 50 mm dia	each	1	950.00	950.00
					0.00
9999	Carriage of materials and fixing charges	L.S.	17.55	2.12	37.21
	TOTAL				987.21
	Add Water Charges @ 1%				9.87
	TOTAL				997.08 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				140.09
	Total				1137.17 (Y)
	Add CPOH @ 15% on "Y"				170.58
	Cost of each				1307.74
	Add 1% labour cess				13.08
	Rate	each			1320.80
18.19.5	65 mm nominal bore.				
18.19.5.1	Horizontal.				
	Details of cost for one no.				
	MATERIAL:				
1937	Gunmetal non-return valve-horizontal (screwed end) 65 mm dia	each	1	1525.00	1525.00
					0.00
9999	Carriage of materials and fixing charges	L.S.	18.85	2.12	39.96
	TOTAL				1564.96
	Add Water Charges @ 1%				15.65
	TOTAL				1580.61 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				222.08
	Total				1802.69 (Y)
	Add CPOH @ 15% on "Y"				270.40














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of each				2073.09
	Add 1% labour cess				20.73
	Rate	each			2093.80
18.19.5.2	Vertical.				
	Details of cost for one no.				
	MATERIAL:				
3096	Gunmetal non-return valve - vertical screwed end) 65 mm dia	each	1	1550.00	1550.00
					0.00
9999	Carriage of materials and fixing charges	L.S.	18.85	2.12	39.96
	TOTAL				1589.96
	Add Water Charges @ 1%				15.90
	TOTAL				1605.86 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				225.62
	Total				1831.49 (Y)
	Add CPOH @ 15% on "Y"				274.72
	Cost of each				2106.21
	Add 1% labour cess				21.06
	Rate	each			2127.30
18.19.6	80 mm nominal bore.				
18.19.6.1	Horizontal.				
	Details of cost for one no.				
	MATERIAL:				
1938	Gunmetal non-return valve-horizontal (screwed end) 80 mm dia	each	1	2300.00	2300.00
					0.00
9999	Carriage of materials and fixing charges	L.S.	20.28	2.12	42.99
	TOTAL				2342.99
	Add Water Charges @ 1%				23.43
	TOTAL				2366.42 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				332.48
	Total				2698.91 (Y)
	Add CPOH @ 15% on "Y"				404.84
	Cost of each				3103.74
	Add 1% labour cess				31.04
	Rate	each			3134.80
18.19.6.2	Vertica.				
	Details of cost for one no.				
	MATERIAL:				
3300	Gunmetal non-return valve - vertical (screwedend) 80 mm dia	each	1	2600.00	2600.00
					0.00
9999	Carriage of materials and fixing charges	L.S.	20.28	2.12	42.99
	TOTAL				2642.99
	Add Water Charges @ 1%				26.43
	TOTAL				2669.42 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				375.05
	Total				3044.48 (Y)
	Add CPOH @ 15% on "Y"				456.67
	Cost of each				3501.15
	Add 1% labour cess				35.01
	Rate	each			3536.20
18.20	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main.				
18.20.1	15 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1360	C.I.mouth, brass ferrule 15 mm dia	each	1	140.00	140.00
9999	Carriage of materials and fixing charges	L.S.	40.3	2.12	85.44
	TOTAL				225.44

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Water Charges @ 1%				2.25
	TOTAL				227.69 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				31.99
	Total				259.68 (Y)
	Add CPOH @ 15% on "Y"				38.95
	Cost of each				298.63
	Add 1% labour cess				2.99
	Rate	each			301.60
18.20.2	20 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1361	C.I.mouth, brass ferrule 20 mm dia	each	1	160.00	160.00
9999	Carriage of materials and fixing charges	L.S.	47.19	2.12	100.04
	TOTAL				260.04
	Add Water Charges @ 1%				2.40
	TOTAL				262.44 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				36.87
	Total				299.32 (Y)
	Add CPOH @ 15% on "Y"				44.90
	Cost of each				344.21
	Add 1% labour cess				3.44
	Rate	each			347.70
18.20.3	25 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1362	C.I.mouth, brass ferrule 25 mm dia	each	1	220.00	220.00
9999	Carriage of materials and fixing charges	L.S.	53.82	2.12	114.10
	TOTAL				334.10
	Add Water Charges @ 1%				3.34
	TOTAL				337.44 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				47.41
	Total				384.85 (Y)
	Add CPOH @ 15% on "Y"				57.73
	Cost of each				442.58
	Add 1% labour cess				4.43
	Rate	each			447.00
18.21	Providing and fixing uplasticised PVC connection pipe with brass unions.				
18.21.1	30 cm length.				
18.21.1.1	15 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1687	Unplasticised P.V.C. connection pipe with brass union 30 cm long 15 mm bore	each	1	30.00	30.00
9999	Carriage of materials and fixing charges	L.S.	12.22	2.12	25.91
	TOTAL				55.91
	Add Water Charges @ 1%				0.56
	TOTAL				56.47 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				7.93
	Total				64.40 (Y)
	Add CPOH @ 15% on "Y"				9.66
	Cost of each				74.06
	Add 1% labour cess				0.74
	Rate	each			74.80
18.21.1.2	20 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1688	Unplasticised P.V.C. connection pipe with	each	1	35.00	35.00









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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	brass union 30 cm long 20 mm bore				
9999	Carriage of materials and fixing charges	L.S.	12.22	2.12	25.91
	TOTAL				60.91
	Add Water Charges @ 1%				0.61
	TOTAL				61.52 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				8.64
	Total				70.16 (Y)
	Add CPOH @ 15% on "Y"				10.52
	Cost of each				80.68
	Add 1% labour cess				0.81
	Rate	each			81.50
18.21.2	45 cm length.				
18.21.2.1	15 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1689	Unplasticised P.V.C. connection pipe with brass union 45 cm long 15 mm bore	each	1	35.00	35.00
9999	Carriage of materials and fixing charges	L.S.	13.52	2.12	28.66
	TOTAL				63.66
	Add Water Charges @ 1%				0.64
	TOTAL				64.30 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				9.03
	Total				73.33 (Y)
	Add CPOH @ 15% on "Y"				11.00
	Cost of each				84.33
	Add 1% labour cess				0.84
	Rate	each			85.20
18.21.2.2	20 mm nominal bore.				
	Details of cost for one no.				
1690	Unplasticised P.V.C. connection pipe with brass union 45 cm long 20 mm bore	each	1	48.00	48.00
9999	Carriage of materials and fixing charges	L.S.	13.52	2.12	28.66
	TOTAL				76.66
	Add Water Charges @ 1%				0.77
	TOTAL				77.43 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				10.88
	Total				88.31 (Y)
	Add CPOH @ 15% on "Y"				13.25
	Cost of each				101.55
	Add 1% labour cess				1.02
	Rate	each			102.60
18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet.				
18.22.1	100 mm diameter.				
	Details of cost for one no.				
	MATERIAL:				
1878	Shower rose C.P. brass for 15 to 20 mm inlet 100 mm dia	each	1.00	110.00	110.00
9999	Carriage of materials and fixing charges	L.S.	6.76	2.12	14.33
	TOTAL				124.33
	Add Water Charges @ 1%				1.24
	TOTAL				125.57 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				17.64
	Total				143.22 (Y)
	Add CPOH @ 15% on "Y"				21.48
	Cost of each				164.70
	Add 1% labour cess				1.65
	Rate	each			166.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.22.2	150 mm diameter.				
	Details of cost for one no.				
	MATERIAL:				
1879	Shower rose C.P.brass for 15 to 20 mm inlet 150 mm dia	each	1.00	125.00	125.00
9999	Carriage of materials and fixing charges	L.S.	8.06	2.12	17.09
	TOTAL				142.09
	Add Water Charges @ 1%				1.42
	TOTAL				143.51 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				20.16
	Total				163.67 (Y)
	Add CPOH @ 15% on "Y"				24.55
	Cost of each				188.22
	Add 1% labour cess				1.88
	Rate	each			190.10
18.23	Laying in position centrifugally cast (spun) iron S&S or flanged pipes (excluding cost of pipe).				
	Details of cost for 5.14 quintal.				
	10 m of 200 mm dia C.I. pipe class 'A'				
	Weight = (2x257) = 514kg = 5.14 quintal				
	Labour for laying pipe				
116	Fitter (grade 1)	day	0.17	420.00	71.40
117	Assistant Fitter or 2nd class Fitter	day	0.17	369.00	62.73
114	Beldar	day	1.33	306.00	406.98
9999	Sundries	L.S.	16.12	2.12	34.17
	TOTAL				575.28
	Add Water Charges @ 1%				5.75
	TOTAL				581.04 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				81.64
	Total				662.67 (Y)
	Add CPOH @ 15% on "Y"				99.40
	Cost of 5.14 quintal				762.07
	Cost of 1 quintal				148.26
	Add 1% labour cess				1.48
	Rate	quintal			149.70
18.24	Laying in position S&S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials).				
	Details of cost for 7 quintal.				
	10 Nos. Tee 200x150mm Weight = 70x10 = 700kg.				
	Labour for laying tee				
116	Fitter (grade 1)	day	0.93	420.00	390.60
117	Assistant Fitter or 2nd class Fitter	day	0.62	369.00	228.78
114	Beldar	day	2.48	306.00	758.88
9999	Sundries	L.S.	40.17	2.12	85.16
	TOTAL				1463.42
	Add Water Charges @ 1%				14.63
	TOTAL				1478.05 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				207.67
	Total				1685.72 (Y)
	Add CPOH @ 15% on "Y"				252.86
	Cost of 7 quintal				1938.58
	Cost of 1 quintal				377.16
	Add 1% labour cess				3.77
	Rate	quintal			380.90




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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.25	Providing and laying S&S C.I. standard specials such as tees, bends, collars, tapers, caps etc. (Heavy class).				
18.25.1	Upto 300 mm dia Details of cost for 1 quintal. MATERIAL:				
1464	S & S.C.I. standard specials upto 300 mm dia (heavy class)	quintal	1	3800.00	3800.00
2309	Carriage of Cast Iron fittings	tonne	0.1	145.72	14.57
	LABOUR: For laying				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	1	377.16	377.16 A
	TOTAL				4191.73
	Add Water Charges @ 1% except on A i.e on TOTAL				38.15
	TOTAL				4229.87 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				541.31
	Total				4771.18 (Y)
	Add CPOH @ 15% on "Y" except A				659.10
	Cost of 1 quintal				5430.28
	Add 1% labour cess				54.30
	Rate	quintal			5484.60
18.25.2	Over 300 mm dia. Details of cost for 1 quintal. MATERIAL:				
1466	S & S.C.I. standard specials over 300 mm dia (heavy class)	quintal	1	3800.00	3800.00
2309	Carriage of Cast Iron fittings	tonne	0.1	145.72	14.57
	LABOUR: For laying				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	1	377.16	377.16 A
	TOTAL				4191.73
	Add Water Charges @ 1% except on A i.e on TOTAL				38.15
	TOTAL				4229.87 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				541.31
	Total				4771.18 (Y)
	Add CPOH @ 15% on "Y" except A				659.10
	Cost of 1 quintal				5430.28
	Add 1% labour cess				54.30
	Rate	quintal			5484.60
18.26	Providing and laying flanged C.I. standard specials such as tees, bends, collars, tapers, caps etc., suitable for flanged jointing as per IS : 1538.				
18.26.1	Upto 300 mm dia. Details of cost for 1 quintal. MATERIAL:				
1468	Flanged C.I. standard specials upto 300 mm dia (heavy class)	quintal	1	5700.00	5700.00
2309	Carriage of Cast Iron fittings	tonne	0.1	145.72	14.57
	LABOUR: For laying				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	1	377.16	377.16 A
	TOTAL				6091.73
	Add Water Charges @ 1% except on A i.e on TOTAL				57.15
	TOTAL				6148.87 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				810.93

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total				6959.80 (Y)
	Add CPOH @ 15% on "Y" except A				987.40
	Cost of 1 quintal				7947.20
	Add 1% labour cess				79.47
	Rate	quintal			8026.70
18.26.2	Over 300 mm dia.				
	Details of cost for 1 quintal.				
	MATERIAL:				
1470	Flanged C.I. standard specials over 300 mm dia (heavy class)	quintal	1	5700.00	5700.00
2309	Carriage of Cast Iron fittings	tonne	0.1	145.72	14.57
	LABOUR:				
	For laying				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	1	377.16	377.16 A
	TOTAL				6091.73
	Add Water Charges @ 1% except on A i.e on				57.15
	TOTAL				6148.87 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				810.93
	Total				6959.80 (Y)
	Add CPOH @ 15% on "Y" except A				987.40
	Cost of 1 quintal				7947.20
	Add 1% labour cess				79.47
	Rate	quintal			8026.70
18.27	Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536.				
18.27.1	100 mm dia pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
	100mm dia. spun iron pipes (in 5.5 m lengths)				
	weightof 1m pipe = 19.820 kg				
	Weight of 10m pipes 19.820x10= 198.20 kg				
7697	S&S Centrifugally (Spun) C.I. Pipe class LA 100 mm dia	metre	10	857.00	8570.00
2319	Carriage of Spun iron S & S pipes 100 mm dia Labour for laying	100 metre	10	358.32	35.83
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	1.98	148.26	293.56 A
	TOTAL				8899.39
	Add Water Charges @ 1% except on A i.e on				86.06
	TOTAL				8985.45 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				1221.21
	Total				10206.66 (Y)
	Add CPOH @ 15% on "Y" except A				1486.97
	Cost of 10 metre				11693.63
	Cost of 1 metre				1169.36
	Add 1% labour cess				11.69
	Rate	per m			1181.10
18.27.2	125 mm dia pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
	125mm dia. spun iron pipes (in 5.5 m lengths)				
	weightof 1m pipe = 25.82 kg				
	Weight of 10m pipes 25.820x10 = 258.20 kg				
7698	S&S Centrifugally (Spun) C.I. Pipe class LA 125 mm dia	metre	10.00	1067.00	10670.00
2320	Carriage of Spun iron S & S pipes 125 mm dia Labour for laying	100 metre	10.00	478.64	47.86














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	2.58	148.26	382.52 A
	TOTAL				11100.38
	Add Water Charges @ 1% except on A i.e on TOTAL				107.18
	TOTAL				11207.56 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				1520.92
	Total				12728.48 (Y)
	Add CPOH @ 15% on "Y" except A				1851.89
	Cost of 10 metre				14580.37
	Cost of 1 metre				1458.04
	Add 1% labour cess				14.58
	Rate	per m			1472.60
18.27.3	150 mm dia pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
	150mm dia. spun iron pipes (in 5.5 m lengths)				
	weight of 1m pipe = 32.18 kg				
	Weight of 10m pipes 32.18x10 = 321.80 kg				
7699	S&S Centrifugally (Spun) C.I. Pipe class LA 150 mm dia	metre	10.00	1286.00	12860.00
2321	Carriage of Spun iron S & S pipes 150 mm dia Labour for laying	100 metre	10.00	597.20	59.72
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	3.22	148.26	477.41 A
	TOTAL				13397.13
	Add Water Charges @ 1% except on A i.e on TOTAL				129.20
	TOTAL				13526.33 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				1833.37
	Total				15359.70 (Y)
	Add CPOH @ 15% on "Y" except A				2232.34
	Cost of 10 metre				17592.04
	Cost of 1 metre				1759.20
	Add 1% labour cess				17.59
	Rate	per m			1776.80
18.27.4	200 mm dia pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
	200mm dia. spun iron pipes (in 5.5 m lengths)				
	weight of 1m pipe = 47.090 kg				
	Weight of 10m pipes 47.090x10 = 470.90 kg				
7700	S&S Centrifugally (Spun) C.I. Pipe class LA 200 mm dia	metre	10.00	2190.00	21900.00
2322	Carriage of Spun iron S & S pipes 200 mm dia Labour for laying	100 metre	10.00	971.45	97.15
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	4.71	148.26	698.32 A
	TOTAL				22695.47
	Add Water Charges @ 1% except on A i.e on TOTAL				219.97
	TOTAL				22915.44 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				3121.50
	Total				26036.94 (Y)
	Add CPOH @ 15% on "Y" except A				3800.79
	Cost of 10 metre				29837.74
	Cost of 1 metre				2983.77
	Add 1% labour cess				29.84
	Rate	per m			3013.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.27.5	250 mm dia pipe. Details of cost for 10 metre. MATERIAL: 250mm dia. spun iron pipes (in 5.5 m lengths) weight of 1m pipe = 63.450 kg Weight of 10m pipes 63.450x10 = 634.50 kg				
7701	S&S Centrifugally (Spun) C.I. Pipe class LA 250 mm dia	metre	10.00	2857.00	28570.00
2323	Carriage of Spun iron S & S pipes 250 mm dia Labour for laying	100 metre	10.00	1380.48	138.05
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	6.35	148.26	941.47 A
	TOTAL				29649.52
	Add Water Charges @ 1% except on A i.e on TOTAL				287.08
	Add GST 12% on "X" except A (multiplying factor 0.1405)				29936.60 (X)
	Total				4073.82
	Add CPOH @ 15% on "Y" except A				34010.42 (Y)
	Cost of 10 metre				4960.34
	Cost of 1 metre				38970.76
	Add 1% labour cess				3897.08
	Rate	per m			38.97
					3936.00
18.27.6	300 mm dia pipe. Details of cost for 10 metre. MATERIAL: 300mm dia. spun iron pipes (in 5.5 m lengths) weight of 1m pipe = 81.820 kg Weight of 10m pipes 81.820x10 = 818.20 kg				
7702	S&S Centrifugally (Spun) C.I. Pipe class LA 300 mm dia	metre	10.00	3857.00	38570.00
2324	Carriage of Spun iron S & S pipes 300 mm. dia Labour for laying	100 metre	10.00	1706.30	170.63
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	8.18	148.26	1212.79 A
	TOTAL				39953.42
	Add Water Charges @ 1% except on A i.e on TOTAL				387.41
	Add GST 12% on "X" except A (multiplying factor 0.1405)				40340.83 (X)
	Total				5497.49
	Add CPOH @ 15% on "Y" except A				45838.32 (Y)
	Cost of 10 metre				6693.83
	Cost of 1 metre				52532.15
	Add 1% labour cess				5253.21
	Rate	per m			52.53
					5305.70
18.27.7	350 mm dia pipe. Details of cost for 10 metre. MATERIAL: 350mm dia. spun iron pipes (in 5.5 m lengths) weight of 1m pipe = 103.10 kg Weight of 10m pipes 103.10x10 = 1031.00 kg				
7703	S&S Centrifugally (Spun) C.I. Pipe class LA 350 mm dia	metre	10.00	4619.00	46190.00
2325	Carriage of Spun iron S & S pipes 350 mm dia Labour for laying	100 metre	10.00	2388.82	238.88
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	10.31	148.26	1528.60 A
	TOTAL				47957.48














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Water Charges @ 1% except on A i.e on				464.29
	TOTAL				48421.77 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				6588.49
	Total				55010.26 (Y)
	Add CPOH @ 15% on "Y" except A				8022.25
	Cost of 10 metre				63032.51
	Cost of 1 metre				6303.25
	Add 1% labour cess				63.03
	Rate	per m			6366.30
18.27.8	400 mm dia pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
	400mm dia. spun iron pipes (in 5.5 m lengths)				
	weight of 1m pipe = 125.40 kg				
	Weight of 10m pipes 125.40x10 = 1254.00				
	kg				
7704	S&S Centrifugally (Spun) C.I. Pipe class LA	metre	10.00	6095.00	60950.00
	400 mm dia				
2326	Carriage of Spun iron S & S pipes 400 mm	100 metre	10.00	3257.48	325.75
	dia Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water	quintal	12.55	148.26	1860.71 A
	supply				
	TOTAL				63136.45
	Add Water Charges @ 1% except on A i.e on				612.76
	TOTAL				63749.21 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				8695.34
	Total				72444.55 (Y)
	Add CPOH @ 15% on "Y" except A				10587.58
	Cost of 10 metre				83032.12
	Cost of 1 metre				8303.21
	Add 1% labour cess				83.03
	Rate	per m			8386.20
18.27.9	450 mm dia pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
	450mm dia. spun iron pipes (in 5.5 m lengths)				
	weight of 1m pipe = 151.27 kg				
	Weight of 10m pipes 151.27x 10 = 1512.70				
	kg				
7705	S&S Centrifugally (Spun) C.I. Pipe class LA	metre	10.00	7381.00	73810.00
	450 mm dia				
2327	Carriage of Spun iron S & S pipes 450 mm	100 metre	10.00	3981.36	398.14
	dia Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water	quintal	15.13	148.26	2243.23 A
	supply				
	TOTAL				76451.36
	Add Water Charges @ 1% except on A i.e on				742.08
	TOTAL				77193.44 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				10530.51
	Total				87723.95 (Y)
	Add CPOH @ 15% on "Y" except A				12822.11
	Cost of 10 metre				100546.06
	Cost of 1 metre				10054.61
	Add 1% labour cess				100.55
	Rate	per m			10155.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.27.10	500 mm dia pipe. Details of cost for 10 metre. MATERIAL: 500mm dia. spun iron pipes (in 5.5 m lengths) weight of 1m pipe = 177.09 kg Weight of 10m pipes 177.090x10 = 1770.90 kg				
7706	S&S Centrifugally (Spun) C.I. Pipe class LA 500 mm dia	metre	10.00	8571.00	85710.00
2328	Carriage of Spun iron S & S pipes 500 mm dia Labour for laying	100 metre	10.00	3981.36	398.14
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	17.71	148.26	2625.74 A
	TOTAL				88733.88
	Add Water Charges @ 1% except on A i.e on TOTAL				861.08
	Add GST 12% on "X" except A (multiplying factor 0.1405)				89594.96 (X)
	Total				12219.18
	Add CPOH @ 15% on "Y" except A				101814.14 (Y)
	Cost of 10 metre				14878.26
	Cost of 1 metre				116692.40
	Add 1% labour cess				11669.24
	Rate	per m			116.69
					11785.90
18.27.11	600 mm dia pipe. Details of cost for 10 metre. MATERIAL: 600mm dia. spun iron pipes (in 5.5 m lengths) weight of 1m pipe = 236.00 kg Weight of 10m pipes 236.000x10 = 2360.00 kg				
7707	S&S Centrifugally (Spun) C.I. Pipe class LA 600 mm dia	metre	10	11995.00	119950.00
2329	Carriage of Spun iron S & S pipes 600mm dia Labour for laying	100 metre	10	5972.04	597.20
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	23.6	148.26	3499.02 A
	TOTAL				124046.22
	Add Water Charges @ 1% except on A i.e on TOTAL				1205.47
	Add GST 12% on "X" except A (multiplying factor 0.1405)				125251.69 (X)
	Total				17106.25
	Add CPOH @ 15% on "Y" except A				142357.94 (Y)
	Cost of 10 metre				20828.84
	Cost of 1 metre				163186.78
	Add 1% labour cess				16318.68
	Rate	per m			163.19
					16481.90
18.28	Providing lead caulked joints to spun iron or C.I. pipes and specials including testing of joints but excluding the cost of pig lead.				
18.28.1	100 mm diameter pipe. Details of cost for 10 joints. MATERIAL:				
1881	Spun yarn 0.17x 10 =1.70 kg	kilogram	1.70	55.00	93.50
761	Fuel wood	quintal	0.28	500.00	140.00
771	Kerosene oil	litre	0.38	50.00	19.00
					
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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	6.76	2.12	14.33
9999	Carriage of materials	L.S.	5.33	2.12	11.30
	LABOUR:				
116	Fitter (grade 1)	day	1.00	420.00	420.00
117	Assistant Fitter or 2nd class Fitter	day	1.00	369.00	369.00
114	Beldar	day	2.00	306.00	612.00
	TOTAL				1679.13
	Add Water Charges @ 1%				16.79
	TOTAL				1695.92 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				238.28
	Total				1934.20 (Y)
	Add CPOH @ 15% on "Y"				290.13
	Cost of 10 nos				2224.33
	Cost of each				222.43
	Add 1% labour cess				2.22
	Rate	Each			224.70
18.28.2	125 mm diameter pipe				
	Details of cost for 10 joints.				
	MATERIAL:				
1881	Spun yarn	kilogram	2	55.00	110.00
	0.20x10=2.00 kg				
761	Fuel wood	quintal	0.37	500	185.00
771	Kerosene oil	litre	0.76	50	38.00
9999	Sundries	L.S.	9.49	2.12	20.12
9999	Carriage of materials	L.S.	9.49	2.12	20.12
	LABOUR:				
116	Fitter (grade 1)	day	1.5	420.00	630.00
117	Assistant Fitter or 2nd class Fitter	day	1.5	369.00	553.50
114	Beldar	day	3	306.00	918.00
	TOTAL				2474.74
	Add Water Charges @ 1%				24.75
	TOTAL				2499.48 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				351.18
	Total				2850.66 (Y)
	Add CPOH @ 15% on "Y"				427.60
	Cost of 10 nos				3278.26
	Cost of each				327.83
	Add 1% labour cess				3.28
	Rate	Each			331.10
18.28.3	150 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1881	Spun yarn	kilogram	2.3	55	126.50
	0.23x10=2.30 kg				
761	Fuel wood	quintal	0.42	500	210.00
771	Kerosene oil	litre	0.76	50	38.00
9999	Sundries	L.S.	10.79	2.12	22.87
9999	Carriage of materials	L.S.	10.79	2.12	22.87
	LABOUR:				
116	Fitter (grade 1)	day	1.5	420.00	630.00
117	Assistant Fitter or 2nd class Fitter	day	1.5	369.00	553.50
114	Beldar	day	3	306.00	918.00
	TOTAL				2521.75
	Add Water Charges @ 1%				25.22
	TOTAL				2546.97 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				357.85
	Total				2904.82 (Y)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add CPOH @ 15% on "Y"				435.72
	Cost of 10 nos				3340.54
	Cost of each				334.05
	Add 1% labour cess				3.34
	Rate	Each			337.40
18.28.4	200 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1881	Spun yarn	kilogram	3	55	165.00
	0.3x10=3.00 kg				
761	Fuel wood	quintal	0.56	500	280.00
771	Kerosene oil	litre	0.76	50	38.00
9999	Sundries	L.S.	13.52	2.12	28.66
9999	Carriage of materials	L.S.	13.52	2.12	28.66
	LABOUR:				
116	Fitter (grade 1)	day	2	420.00	840.00
117	Assistant Fitter or 2nd class Fitter	day	2	369.00	738.00
114	Beldar	day	4	306.00	1224.00
	TOTAL				3342.32
	Add Water Charges @ 1%				33.42
	TOTAL				3375.75 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				474.29
	Total				3850.04 (Y)
	Add CPOH @ 15% on "Y"				577.51
	Cost of 10 nos				4427.55
	Cost of each				442.75
	Add 1% labour cess				4.43
	Rate	Each			447.20
18.28.5	250 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1881	Spun yarn	kilogram	4	55	220.00
	0.4x10=4.00 kg				
761	Fuel wood	quintal	0.65	500	325.00
771	Kerosene oil	litre	1.14	50	57.00
9999	Sundries	L.S.	17.55	2.12	37.21
9999	Carriage of materials	L.S.	17.55	2.12	37.21
	LABOUR:				
116	Fitter (grade 1)	day	2.5	420.00	1050.00
117	Assistant Fitter or 2nd class Fitter	day	2.5	369.00	922.50
114	Beldar	day	5	306.00	1530.00
	TOTAL				4178.91
	Add Water Charges @ 1%				41.79
	TOTAL				4220.70 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				593.01
	Total				4813.71 (Y)
	Add CPOH @ 15% on "Y"				722.06
	Cost of 10 nos				5535.77
	Cost of each				553.58
	Add 1% labour cess				5.54
	Rate	Each			559.10
18.28.6	300 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1881	Spun yarn	kilogram	5.4	55	297.00
	0.54x10 =5.40 kg				0.00
761	Fuel wood	quintal	0.75	500	375.00
					

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
771	Kerosene oil	litre	1.52	50	76.00
9999	Sundries	L.S.	20.28	2.12	42.99
9999	Carriage of materials	L.S.	20.28	2.12	42.99
	LABOUR:				
116	Fitter (grade 1)	day	3	420.00	1260.00
117	Assistant Fitter or 2nd class Fitter	day	3	369.00	1107.00
114	Beldar	day	6	306.00	1836.00
	TOTAL				5036.99
	Add Water Charges @ 1%				50.37
	TOTAL				5087.36 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				714.77
	Total				5802.13 (Y)
	Add CPOH @ 15% on "Y"				870.32
	Cost of 10 nos				6672.45
	Cost of each				667.25
	Add 1% labour cess				6.67
	Rate	Each			673.90
18.28.7	350 mm diameter pipe.				
	Details of cost for 10 joints..				
	MATERIAL:				
1881	Spun yarn	kilogram	6.2	55	341.00
	0.62x10=6.20 kg				
761	Fuel wood	quintal	0.93	500	465.00
771	Kerosene oil	litre	1.7	50	85.00
9999	Sundries	L.S.	24.18	2.12	51.26
9999	Carriage of materials	L.S.	24.18	2.12	51.26
	LABOUR:				
116	Fitter (grade 1)	day	3	420.00	1260.00
117	Assistant Fitter or 2nd class Fitter	day	3	369.00	1107.00
114	Beldar	day	6	306.00	1836.00
	TOTAL				5196.52
	Add Water Charges @ 1%				51.97
	TOTAL				5248.49 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				737.41
	Total				5985.90 (Y)
	Add CPOH @ 15% on "Y"				897.89
	Cost of 10 nos				6883.79
	Cost of each				688.38
	Add 1% labour cess				6.88
	Rate	Each			695.30
18.28.8	400 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1881	Spun yarn	kilogram	7.4	55	407.00
	0.74x10=7.40 kg				
761	Fuel wood	quintal	1.12	500	560.00
771	Kerosene oil	litre	1.7	50	85.00
9999	Sundries	L.S.	26.91	2.12	57.05
9999	Carriage of materials	L.S.	26.91	2.12	57.05
	LABOUR:				
116	Fitter (grade 1)	day	4	420.00	1680.00
117	Assistant Fitter or 2nd class Fitter	day	4	369.00	1476.00
114	Beldar	day	8	306.00	2448.00
	TOTAL				6770.10
	Add Water Charges @ 1%				67.70
	TOTAL				6837.80 (X)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST 12% on "X" (multiplying factor 0.1405)				960.71
	Total				7798.51 (Y)
	Add CPOH @ 15% on "Y"				1169.78
	Cost of 10 nos				8968.29
	Cost of each				896.83
	Add 1% labour cess				8.97
	Rate	Each			905.80
18.28.9	450 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1881	Spun yarn	kilogram	7.9	55	434.50
	0.79x10=7.90 kg				
761	Fuel wood	quintal	1.21	500	605.00
771	Kerosene oil	litre	2.27	50	113.50
9999	Sundries	L.S.	31.07	2.12	65.87
9999	Carriage of materials	L.S.	31.07	2.12	65.87
	LABOUR:				
116	Fitter (grade 1)	day	4.5	420.00	1890.00
117	Assistant Fitter or 2nd class Fitter	day	4.5	369.00	1660.50
114	Beldar	day	9	306.00	2754.00
	TOTAL				7589.24
	Add Water Charges @ 1%				75.89
	TOTAL				7665.13 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				1076.95
	Total				8742.08 (Y)
	Add CPOH @ 15% on "Y"				1311.31
	Cost of 10 nos				10053.39
	Cost of each				1005.34
	Add 1% labour cess				10.05
	Rate	Each			1015.40
18.28.10	500 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1881	Spun yarn	kilogram	8.5	55	467.50
	0.85x10=8.50 kg				
761	Fuel wood	quintal	1.31	500	655.00
771	Kerosene oil	litre	2.27	50	113.50
9999	Sundries	L.S.	33.67	2.12	71.38
9999	Carriage of materials	L.S.	33.67	2.12	71.38
	LABOUR:				
116	Fitter (grade 1)	day	4.75	420.00	1995.00
117	Assistant Fitter or 2nd class Fitter	day	4.75	369.00	1752.75
114	Beldar	day	9.5	306.00	2907.00
	TOTAL				8033.51
	Add Water Charges @ 1%				80.34
	TOTAL				8113.85 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				1140.00
	Total				9253.84 (Y)
	Add CPOH @ 15% on "Y"				1388.08
	Cost of 10 nos				10641.92
	Cost of each				1064.19
	Add 1% labour cess				10.64
	Rate	Each			1074.80
18.28.11	600 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1881	Spun yarn	kilogram	10.2	55	561.00

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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	1.02x10=10.20 kg				
761	Fuel wood	quintal	1.68	500	840.00
771	Kerosene oil	litre	2.84	50	142.00
9999	Sundries	L.S.	40.3	2.12	85.44
9999	Carriage of materials	L.S.	40.3	2.12	85.44
	LABOUR:				
116	Fitter (grade 1)	day	6.5	420.00	2730.00
117	Assistant Fitter or 2nd class Fitter	day	6.5	369.00	2398.50
114	Beldar	day	13	306.00	3978.00
	TOTAL				10820.37
	Add Water Charges @ 1%				108.20
	TOTAL				10928.58 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				1535.46
	Total				12464.04 (Y)
	Add CPOH @ 15% on "Y"				1869.61
	Cost of 10 nos				14333.65
	Cost of each				1433.36
	Add 1% labour cess				14.33
	Rate	Each			1447.70
18.29	Supplying pig lead at site of work.				
	Details of cost for 1 quintal.				
	MATERIAL:				
1397	Pig lead	kilogram	100	210.00	21000.00
2341	Carriage of pig lead	tonne	0.1	145.72	14.57
	TOTAL				21014.57
	Add Water Charges @ 1%				210.15
	TOTAL				21224.72 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				2982.07
	Total				24206.79 (Y)
	Add CPOH @ 15% on "Y"				3631.02
	Cost of 1 quintal				27837.81
	Add 1% labour cess				278.38
	Rate	per quintal			28116.20
18.30	Providing flanged joints to double flanged C.I./ D.I. pipes and specials, including testing of joints.				
18.30.1	80 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1373	Rubber insertions for 80 mm dia pipe joints	each	10	16.00	160.00
1956	Bolts and nuts 16 mm dia 60 mm long	each	40.00	11.50	460.00
9999	Carriage of material	L.S.	2.73	2.12	5.79
	LABOUR:				
116	Fitter (grade 1)	day	0.15	420.00	63.00
117	Assistant Fitter or 2nd class Fitter	day	0.15	369.00	55.35
114	Beldar	day	0.8	306.00	244.80
	TOTAL				988.94
	Add Water Charges @ 1%				9.89
	TOTAL				998.83 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				140.34
	Total				1139.16 (Y)
	Add CPOH @ 15% on "Y"				170.87
	Cost of 10 nos				1310.04
	Cost of each				131.00
	Add 1% labour cess				1.31
	Rate	each			132.30
18.30.2	100 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1374	Rubber insertions for 100 mm dia pipe joints	each	10	18.00	180.00
1956	Bolts and nuts 16 mm dia 60 mm long	each	80	11.5	920.00
9999	Carriage of materials	L.S.	4.16	2.12	8.82
	LABOUR:				
116	Fitter (grade 1)	day	0.25	420.00	105.00
117	Assistant Fitter or 2nd class Fitter	day	0.25	369.00	92.25
114	Beldar	day	1	306.00	306.00
	TOTAL				1612.07
	Add Water Charges @ 1%				16.12
	TOTAL				1628.19 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				228.76
	Total				1856.95 (Y)
	Add CPOH @ 15% on "Y"				278.54
	Cost of 10 nos				2135.49
	Cost of each				213.55
	Add 1% labour cess				2.14
	Rate	each			215.70
18.30.3	125 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1375	Rubber insertions for 125 mm dia pipe joints	each	10	20.00	200.00
1957	Bolts and nuts 16 mm dia 65 mm long	each	80	13.00	1040.00
9999	Carriage of materials	L.S.	4.16	2.12	8.82
	LABOUR:				
116	Fitter (grade 1)	day	0.25	420.00	105.00
117	Assistant Fitter or 2nd class Fitter	day	0.25	369.00	92.25
114	Beldar	day	1	306.00	306.00
	TOTAL				1752.07
	Add Water Charges @ 1%				17.52
	TOTAL				1769.59 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				248.63
	Total				2018.22 (Y)
	Add CPOH @ 15% on "Y"				302.73
	Cost of 10 nos				2320.95
	Cost of each				232.09
	Add 1% labour cess				2.32
	Rate	each			234.40
18.30.4	150 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1376	Rubber insertions for 150 mm dia pipe joints	each	10	20.00	200.00
1958	Bolts and nuts 20 mm dia 65 mm long	each	80	15.00	1200.00
9999	Carriage of materials	L.S.	4.16	2.12	8.82
	LABOUR:				
116	Fitter (grade 1)	day	0.3	420.00	126.00
117	Assistant Fitter or 2nd class Fitter	day	0.3	369.00	110.70
114	Beldar	day	1.1	306.00	336.60
	TOTAL				1982.12
	Add Water Charges @ 1%				19.82
	TOTAL				2001.94 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				281.27
	Total				2283.21 (Y)
	Add CPOH @ 15% on "Y"				342.48
	Cost of 10 nos				2625.69
	Cost of each				262.57
	Add 1% labour cess				2.63
	Rate	each			265.20







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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.30.5	200 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1377	Rubber insertions for 200 mm dia pipe joints	each	10	25.00	250.00
1959	Bolts and nuts 20 mm dia 70 mm long	each	80	17.50	1400.00
9999	Carriage of materials	L.S.	4.16	2.12	8.82
	LABOUR:				0.00
116	Fitter (grade 1)	day	0.3	420.00	126.00
117	Assistant Fitter or 2nd class Fitter	day	0.3	369.00	110.70
114	Beldar	day	1.1	306.00	336.60
	TOTAL				2232.12
	Add Water Charges @ 1%				22.32
	TOTAL				2254.44 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				316.75
	Total				2571.19 (Y)
	Add CPOH @ 15% on "Y"				385.68
	Cost of 10 nos				2956.87
	Cost of each				295.69
	Add 1% labour cess				2.96
	Rate	each			298.60
18.30.6	300 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1378	Rubber insertions for 250 mm dia pipe joints	each	10	40.00	400.00
1960	Bolts and nuts 20 mm dia 75 mm long	each	120	17.00	2040.00
9999	Carriage of materials	L.S.	5.33	2.12	11.30
	LABOUR:				0.00
116	Fitter (grade 1)	day	0.4	420.00	168.00
117	Assistant Fitter or 2nd class Fitter	day	0.4	369.00	147.60
114	Beldar	day	1.3	306.00	397.80
	TOTAL				3164.70
	Add Water Charges @ 1%				31.65
	TOTAL				3196.35 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				449.09
	Total				3645.43 (Y)
	Add CPOH @ 15% on "Y"				546.81
	Cost of 10 nos				4192.25
	Cost of each				419.22
	Add 1% labour cess				4.19
	Rate	each			423.40
18.30.7	300 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1379	Rubber insertions for 300 mm dia pipe joints	each	10	45.00	450.00
1960	Bolts and nuts 20 mm dia 75 mm long	each	120	17	2040.00
9999	Carriage of materials	L.S.	5.33	2.12	11.30
	LABOUR:				0.00
116	Fitter (grade 1)	day	0.4	420.00	168.00
117	Assistant Fitter or 2nd class Fitter	day	0.4	369.00	147.60
114	Beldar	day	1.3	306.00	397.80
	TOTAL				3214.70
	Add Water Charges @ 1%				32.15
	TOTAL				3246.85 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				456.18
	Total				3703.03 (Y)
	Add CPOH @ 15% on "Y"				555.45
	Cost of 10 nos				4258.48

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of each				425.85
	Add 1% labour cess				4.26
	Rate	each			430.10
18.30.8	350 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1380	Rubber insertions for 350 mm dia pipe joints	each	10	50.00	500.00
1961	Bolts and nuts 20 mm dia 80 mm long	each	160	17.00	2720.00
9999	Carriage of materials	L.S.	5.33	2.12	11.30
	LABOUR:				
116	Fitter (grade 1)	day	0.5	420.00	210.00
117	Assistant Fitter or 2nd class Fitter	day	0.5	369.00	184.50
114	Beldar	day	1.5	306.00	459.00
	TOTAL				4084.80
	Add Water Charges @ 1%				40.85
	TOTAL				4125.65 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				579.65
	Total				4705.30 (Y)
	Add CPOH @ 15% on "Y"				705.80
	Cost of 10 nos				5411.10
	Cost of each				541.11
	Add 1% labour cess				5.41
	Rate	each			546.50
18.30.9	400 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1381	Rubber insertions for 400 mm dia pipe joints	each	10	73.00	730.00
1962	Bolts and nuts 24 mm dia 85 mm long	each	160	27.00	4320.00
9999	Carriage of materials	L.S.	8.06	2.12	17.09
	LABOUR:				0.00
116	Fitter (grade 1)	day	0.5	420.00	210.00
117	Assistant Fitter or 2nd class Fitter	day	0.5	369.00	184.50
114	Beldar	day	1.5	306.00	459.00
	TOTAL				5920.59
	Add Water Charges @ 1%				59.21
	TOTAL				5979.79 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				840.16
	Total				6819.95 (Y)
	Add CPOH @ 15% on "Y"				1022.99
	Cost of 10 nos				7842.95
	Cost of each				784.29
	Add 1% labour cess				7.84
	Rate	each			792.10
18.30.10	450 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1382	Rubber insertions for 450 mm dia pipe joints	each	10	92.00	920.00
1962	Bolts and nuts 24 mm dia 85 mm long	each	200	27.00	5400.00
9999	Carriage of materials	L.S.	8.06	2.12	17.09
	LABOUR:				0.00
116	Fitter (grade 1)	day	0.6	420.00	252.00
117	Assistant Fitter or 2nd class Fitter	day	0.6	369.00	221.40
114	Beldar	day	1.7	306.00	520.20
	TOTAL				7330.69
	Add Water Charges @ 1%				73.31
	TOTAL				7403.99 (X)














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST 12% on "X" (multiplying factor 0.1405)				1040.26
	Total				8444.26 (Y)
	Add CPOH @ 15% on "Y"				1266.64
	Cost of 10 nos				9710.89
	Cost of each				971.09
	Add 1% labour cess				9.71
	Rate	each			980.80
18.30.11	500 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1383	Rubber insertions for 500 mm dia pipe joints	each	10	110.00	1100.00
1963	Bolts and nuts 24 mm dia 90 mm long	each	200	31.00	6200.00
9999	Carriage of materials	L.S.	8.06	2.12	17.09
	LABOUR:				0.00
116	Fitter (grade 1)	day	0.65	420.00	273.00
117	Assistant Fitter or 2nd class Fitter	day	0.65	369.00	239.85
114	Beldar	day	1.8	306.00	550.80
	TOTAL				8380.74
	Add Water Charges @ 1%				83.81
	TOTAL				8464.54 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				1189.27
	Total				9653.81 (Y)
	Add CPOH @ 15% on "Y"				1448.07
	Cost of 10 nos				11101.89
	Cost of each				1110.19
	Add 1% labour cess				11.10
	Rate	each			1121.30
18.30.12	600 mm diameter pipe.				
	Details of cost for 10 joints.				
	MATERIAL:				
1384	Rubber insertions for 600 mm dia pipe joints	each	10	125.00	1250.00
1964	Bolts and nuts 27 mm dia 100 mm long	each	200	37.00	7400.00
9999	Carriage of materials	L.S.	9.49	2.12	20.12
	LABOUR:				
116	Fitter (grade 1)	day	0.75	420.00	315.00
117	Assistant Fitter or 2nd class Fitter	day	0.75	369.00	276.75
114	Beldar	day	2	306.00	612.00
	TOTAL				9873.87
	Add Water Charges @ 1%				98.74
	TOTAL				9972.61 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				1401.15
	Total				11373.76 (Y)
	Add CPOH @ 15% on "Y"				1706.06
	Cost of 10 nos				13079.82
	Cost of each				1307.98
	Add 1% labour cess				13.08
	Rate	each			1321.10
18.31	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately).				
18.31.1	100 mm diameter.				
18.31.1.1	Class I.				
	Details of cost for 10 sluice valves.				
	MATERIAL:				
1940	C.I. sluice valve (with caps) class I: 100 mm dia Carriage pf sluice valves	each	10	2450.00	24500.00
	wt. = 44.3x10=443kg= 0.443t. say 0.44t				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2309	Carriage of Cast Iron fittings	tonne	0.44	145.72	64.12
18.24	Labour for laying sluice valve				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	4.43	377.16	1670.80 A
	Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc.				
18.30.2	Rate as per Item Number 18.30.2 of SH: Water supply	each	20	213.55	4270.99 A
	TOTAL				30505.90 W
	Add Water Charges @ 1% except on A i.e on				245.64
	TOTAL				30751.54 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				3485.77
	Total				34237.31 (Y)
	Add CPOH @ 15% on "Y" except A				4244.33
	Cost of 10 nos				38481.64
	Cost of each				3848.16
	Add 1% labour cess				38.48
	Rate	each			3886.60
18.31.1.2 Class II.	Details of cost for 10 sluice valves				
	MATERIAL:				
3311	C.I. sluice valve (with caps) class II : 100 mm dia Carriage of sluice valves	each	10	2700.00	27000.00
	wt. = 56.3x10=563kg = 0.563 t. say 0.56t				
2309	Carriage of Cast Iron fittings	tonne	0.56	145.72	81.60
	Labour for laying sluice valve				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	5.63	377.16	2123.39 A
	Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc.				
18.30.2	Rate as per Item Number 18.30.2 of SH: Water supply	each	20	213.55	4270.99 A
	TOTAL				33475.98
	Add Water Charges @ 1% except on A i.e on				270.82
	TOTAL				33746.79 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				3843.01
	Total				37589.81 (Y)
	Add CPOH @ 15% on "Y" except A				4679.32
	Cost of 10 nos				42269.12
	Cost of each				4226.91
	Add 1% labour cess				42.27
18.31.2 Rate	each				4269.20
18.31.2.1 Class I.	Details of cost for 10 sluice valves.				
	MATERIAL:				
1941	C.I. sluice valve (with caps) class I : 125 mm dia Carriage of sluice valves	each	10	2610.00	26100.00
	wt. = 56.3x10=563kg = 0.563 t. say 0.56t				
2309	Carriage of Cast Iron fittings	tonne	0.56	145.72	81.60
	Labour for laying sluice valve				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	5.63	377.16	2123.39 A
	Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc.				
18.30.03	Rate as per Item Number 18.30.3 of SH: Water supply	each	20	232.1	4641.90 A
	TOTAL				32946.89














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Water Charges @ 1% except on A i.e on				261.82
	TOTAL				33208.70 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				3715.30
	Total				36924.01 (Y)
	Add CPOH @ 15% on "Y" except A				4523.81
	Cost of 10 nos				41447.81
	Cost of each				4144.78
	Add 1% labour cess				41.45
18.31.2.2	Rate	each			4186.20
	Details of cost for 10 sluice valves.				
	MATERIAL:				
3314	C.I.sluiice valve (with caps) class II : 125 mm dia Carriage of sluice valve wt.= 68.3x10 = 683 kg = 0.638 t say 0.68 tonne	each	10	3300.00	33000.00
2309	Carriage of Cast Iron fittings Labour for laying sluice valve	tonne	0.68	145.72	99.09
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	6.83	377.16	2575.97 A
	Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc.				
18.30.03	Rate as per Item Number 18.30.3 of SH: Water supply	each	20	232.1	4641.90 A
	TOTAL				40316.96
	Add Water Charges @ 1% except on A i.e on				330.99
	TOTAL				40647.95 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				4696.93
	Total				45344.88 (Y)
	Add CPOH @ 15% on "Y" except A				5719.05
	Cost of 10 nos				51063.93
	Cost of each				5106.39
	Add 1% labour cess				51.06
18.31.3	150 mm diameter.	each			5157.50
18.31.3.1	Class I.				
	Details of cost for 10 sluice valves.				
	MATERIAL:				
1942	C.I. sluice valve (with caps) class I: 150 mm dia Carriage of sluice valves wt. =72.5x10=725kg=0.725t.say 0.72t	each	10	3650.00	36500.00
2309	Carriage of Cast Iron fittings Labour for laying sluice valve	tonne	0.72	145.72	104.92
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	7.25	377.16	2734.38 A
	Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc.				
18.30.04	Rate as per Item Number 18.30.4 of SH: Water supply	each	20	262.6	5251.39 A
	TOTAL				44590.69
	Add Water Charges @ 1% except on A i.e on				366.05
	TOTAL				44956.74 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				5194.42
	Total				50151.16 (Y)
	Add CPOH @ 15% on "Y" except A				6324.81
	Cost of 10 nos				56475.96
	Cost of each				5647.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1% labour cess				56.48
18.31.3.2	Rate	each			5704.10
	Details of cost for 10 sluice valves.				
	MATERIAL:				
	Carriage of sluice valves				
	wt.= 86.5x10=865kg =0.865t. say 0.865t				
3317	C.I.sluice valve (with caps) class II : 150 mm dia	each	10	4100.00	41000.00
2309	Carriage of Cast Iron fittings	tonne	0.865	145.72	126.05
18.24	Labour for laying sluice valve				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	8.65	377.16	3262.40 A
	Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc.				
18.30.4	Rate as per Item Number 18.30.4 of SH: Water supply	each	20	262.6	5251.39 A
	TOTAL				49639.83
	Add Water Charges @ 1% except on A i.e on				411.26
	TOTAL				50051.09 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				5835.99
	Total				55887.09 (Y)
	Add CPOH @ 15% on "Y" except A				7106.00
	Cost of 10 nos				62993.08
	Cost of each				6299.31
	Add 1% labour cess				62.99
	Rate	each			6362.30
18.31.4	200 mm diameter.				
18.31.4.1	Class I.				
	Details of cost for 10 sluice valves.				
	MATERIAL:				
1943	C.I. sluice valve (with caps) class I : 200 mm dia	each	10	7600.00	76000.00
	Carriage of sluice valves				
	wt.= 121.5x10=1215kg= 1.215t. say 1.22t				
2309	Carriage of Cast Iron fittings	tonne	1.22	145.72	177.78
18.24	Labour for laying sluice valve				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	12.15	377.16	4582.44 A
	Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc.				
18.30.5	Rate as per Item Number 18.30.5 of SH: Water supply	each	20	295.7	5913.74 A
	TOTAL				86673.95
	Add Water Charges @ 1% except on A i.e on				761.78
	TOTAL				87435.73 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				10810.01
	Total				98245.74 (Y)
	Add CPOH @ 15% on "Y" except A				13162.43
	Cost of 10 nos				111408.17
	Cost of each				11140.82
	Add 1% labour cess				111.41
	Rate	each			11252.20
18.31.4.2	Class II.				
	Details of cost for 10 sluice valves.				
	MATERIAL:				












Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3320	C.I.sluiice valve (with caps) class II : 200 mm dia Carriage of sluice valves wt.= 150.5x10=1505kg=1.505t. say 1.5t	each	10	8900.00	89000.00
2309	Carriage of Cast Iron fittings Labour for laying sluice valve	tonne	1.5	145.72	218.58
18.24	Rate as per Item Number 18.24 of SH: Water supply Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc.	quintal	15.05	377.16	5676.19 A
18.30.5	Rate as per Item Number 18.30.5 of SH: Water supply	each	20	295.7	5913.74 A
	TOTAL				100808.51
	Add Water Charges @ 1% except on A i.e on TOTAL				892.19
	Add GST 12% on "X"except A (multiplying factor 0.1405)				101700.69 (X)
	Total				12660.56
	Add CPOH @ 15% on "Y" except A				114361.25 (Y)
	Cost of 10 nos				15415.70
	Cost of each				129776.95
	Add 1% labour cess				12977.70
	Rate	each			129.78
					13107.50
18.31.5	250 mm diameter.				
18.31.5.1	Class I.				
	Details of cost for 10 sluice valves. MATERIAL:				
1944	C.I. sluice valve (with caps) class I : 250 mm dia Carriage of sluice valves wt.= 179.9x10=1799kg= 1.799t. say 1.80t	each	10	10980.00	109800.00
2309	Carriage of Cast Iron fittings Labour for laying sluice valve	tonne	1.8	145.72	262.30
18.24	Rate as per Item Number 18.24 of SH: Water supply Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc.	quintal	17.99	377.16	6785.03 A
18.30.6	Rate as per Item Number 18.30.6 of SH: Water supply	each	20	419.2	8384.50 A
	TOTAL				125231.82
	Add Water Charges @ 1% except on A i.e on TOTAL				1100.62
	Add GST 12% on "X"except A (multiplying factor 0.1405)				126332.44 (X)
	Total				15618.39
	Add CPOH @ 15% on "Y" except A				141950.83 (Y)
	Cost of 10 nos				19017.20
	Cost of each				160968.03
	Add 1% labour cess				16096.80
	Rate	each			160.97
					16257.80
18.31.5.2	Class II.				
	Details of cost for 10 sluice valves. MATERIAL:				
3321	C.I.sluiice valve (with caps) class II : 250 mm dia Carriage of sluice valves wt. =229.9x10=2299kg =2299t. say 2.30t	each	10	15000.00	150000.00
2309	Carriage of Cast Iron fittings Labour for laying sluice valve	tonne	2.3	145.72	335.16
18.24	Rate as per Item Number 18.24 of SH: Water supply Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc.	quintal	22.99	377.16	8670.81 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.30.6	Rate as per Item Number 18.30.6 of SH: Water supply	each	20	419.2	8384.50 A
	TOTAL				167390.46
	Add Water Charges @ 1% except on A i.e on				1503.35
	TOTAL				168893.81 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				21333.31
	Total				190227.12 (Y)
	Add CPOH @ 15% on "Y" except A				25975.77
	Cost of 10 nos				216202.89
	Cost of each				21620.29
	Add 1% labour cess				216.20
	Rate	each			21836.50
18.31.6	300 mm diameter.				
18.31.6.1	Class I.				
	Details of cost for 10 sluice valves				
	MATERIAL:				
1945	C.I. sluice valve (with caps) class I: 300 mm dia Carriage of sluice valves wt.= 242.4x10=2424kg = 2.42t. say 2.42t	each	10	15500.00	155000.00
2309	Carriage of Cast Iron fittings	tonne	2.42	145.72	352.64
18.24	Labour for laying sluice valve				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	24.24	377.16	9142.25 A
	Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc.				
18.30.7	Rate as per Item Number 18.30.7 of SH: Water supply	each	20	425.8	8516.97 A
	TOTAL				173011.86
	Add Water Charges @ 1% except on A i.e on				1553.53
	TOTAL				174565.38 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				22045.32
	Total				196610.70 (Y)
	Add CPOH @ 15% on "Y" except A				26842.72
	Cost of 10 nos				223453.42
	Cost of each				22345.34
	Add 1% labour cess				223.45
	Rate	each			22568.80
18.31.6.2	Class II.				
	Details of cost for 10 sluice valves.				
	MATERIAL:				
3326	C.I.sluiice valve (with caps) class II : 300 mm dia Carriage of sluice valves wt.= 303.4x10=3034kg=3.304t.	each	10	18500.00	185000.00
2309	Carriage of Cast Iron fittings	tonne	3.034	145.72	442.11
18.24	Labour for laying sluice valve				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	30.34	377.16	11442.90 A
	Providing flanged joints to sluice valves with bolts, nuts and rubber insertion etc.				
18.30.7	Rate as per Item Number 18.30.7 of SH: Water supply	each	20	425.8	8516.97 A
	TOTAL				205401.98
	Add Water Charges @ 1% except on A i.e on				1854.42
	TOTAL				207256.40 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				26315.16
	Total				233571.56 (Y)
	Add CPOH @ 15% on "Y" except A				32041.75














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10 nos				265613.32
	Cost of each				26561.33
	Add 1% labour cess				265.61
	Rate	each			26826.90
18.32	Constructing masonry chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C.I. surface box 100x100x75 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), i/c 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.				
18.32.1	With common burnt clay F.P.S. (non modular) bricks of class designation 100A				
	Details of cost for one chamber.				
	MATERIAL:				
	(i) Earth work in excavation including refilling and disposal of surplus earth = 0.68x0.68x0.65m=0.301cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	0.3	379.87	113.96 A
2.26	Rate as per Item Number 2.26 of SH: Earth work	cum	0.3	122.72	36.82 A
	(ii) Cement concrete 1:3:6 (1 Cement: 5 fine sand : 10 graded stone aggregate 40mm nominal size) 0.68x0.68x0.075=0.035cum. Say 0.04 cum				
4.1.10	Rate as per Item Number 4.1.10 of SH: Concrete work	cum	0.04	2704.43	108.18 A
	(iii) Second class brick work in cement . mortar 1:4 (1 Cement: 4 coarse sand) in foundations and plinth 1.66x0.115x0.50=0.095cum. Say 0.10 cum				
6.1.2A	Rate as per Item Number 6.1.2A of SH: Brick work (iv) 12mm cement plaster 1:3 (1 Cement: 3 Coarse sand) finished with a floating coat of neat cement. 1.20x0.50=0.60sqm. 0.30x0.30=0.09sqm. Total =0.69sqm. Say 0.70sqm	cum	0.1	4968.25054	496.83 A
13.17.1	Rate as per Item Number 13.17.1 of SH: Finishing (v) C.I. surface box with hinged cover 100x100x75mm (inside)	sqm	0.70	201.59	141.11 A
1304	Surface box for stop cock (vi)	each	1.00	125.00	125.00
9999	Carriage of C.I. surface box (vii) Cement concrete 1:2:4 (1 Cement: 2 Coarse sand ; 4 graded stone aggregate 20mm nominal size) in slab = 0.53mx 0.53mx0.075m = 0.02107cum. Less surface box 0.112x0.112x0.076 =(-) 0.00094 cum. = 0.0201 cum. Say 0.02cum	L.S.	1.43	2.12	3.03
5.3	Rate as per Item Number 5.3 of SH: Reinforced cement concrete work (viii) Less labour for not lifting the materilas upto floor five level	cum	0.02	5335.95	106.72 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
115	Coolie	day	-0.038	318.00	-12.08
	(ix)				
9999	Sundries	L.S.	4.16	2.12	8.82
	TOTAL				1128.38
	Add Water Charges @ 1% except on A i.e on				1.25
	TOTAL				1129.63 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				17.71
	Total				1147.33 (Y)
	Add CPOH @ 15% except on A i.e on				18.90
	Cost of each				1166.23
	Add 1% labour cess				11.66
	Rate	each			1177.90
18.33	Constructing masonry chamber 60x60x75 cm inside, in brick work 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), i/c 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.				
18.33.1	With common burnt clay F.P.S. (non modular) bricks of class designation 100A				
	Details of cost for one chamber.				
	MATERIAL:				
	(i) Earth work in excavation including refilling and disposal of surplus earth				
	1.21 x 1.21 x 1.00m= 1.464cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	1.46	379.87	554.61 A
2.26	Rate as per Item Number 2.26 of SH: Earth work	cum	1.46	122.72	179.17 A
	(ii) Cement concrete 1:5:10 (1 Cement: 5 fine sand : 10 graded stone aggregate 40mm nominal size)				
	1.21x1.21x0.1m=0.146cum. Say 0.15 cum				
4.1.10	Rate as per Item Number 4.1.10 of SH: Concrete work	cum	0.15	2704.43	405.66 A
	(iii) Second class brick work in cement mortar 1: 4(1 Cement: 4coarse sand) in foundations and plinth				
	3.32mx0.23mx0.75m=0.573cum. Say 0.57cum				
6.1.2A	Rate as per Item Number 6.1.2A of SH: Brick work (iv) 12mm cement plaster 1:3 (1 Cement: 3 Coarse sand) finished with a floating coat of neat cement.	cum	0.57	4968.25	2831.90 A
	2.40x0.75=1.80sqm				
	0.60x0.60=0.36sqm.				
	=2.16sqm				
13.17.1	Rate as per Item Number 13.17.1 of SH: Finishing (v) C.I. surface box with hinged cover 100x100x75mm (inside)	sqm	2.16	201.59	435.44 A
1305	Surface box for sluice valve	each	1.00	210.00	210.00
	(vi)				0.00
9999	Carriage of C.I. surface box	L.S.	8.06	2.12	17.09
	(vii) Cement concrete 1:2:4 (1 Cement: 2 Coarse sand : 4 graded stone aggregate				









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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	20mm nominal size) in slab = 1.06mx 1.06mx0.15m = 0.1685 cum. Less surface box 3.142/4x0.18m = 0.7854x0.156x0.156x 0.18 = (-)0.0034 cum = 0.1651 cum. Say 0.17 cum				
5.3	Rate as per Item Number 5.3 of SH: Reinforced cement concrete work (viii) Less labour for not lifting the materials upto floor five level	cum	0.17	5335.95	907.11 A
115	Coolie (ixi) Mild steel reinforcement for RCC work etc. 0.165cum.x80kg/cum. = 13.2kg	day	-0.32	318.00	-101.76
5.22.1	Rate as per Item Number 5.22.1 of SH: Reinforced cement concrete work (x) Form work 0.60mx0.60m=0.36sqm.+ 3.32mx0.15m=0.50sqm. = 0.86 sqm	kilogram	13.20	95.77	1264.14 A
5.9.3	Rate as per Item Number 5.9.3 of SH: Reinforced cement concrete work (xi)	sqm	0.86	433.17	372.53 A
9999	Sundries	L.S.	8.06	2.12	17.09
	TOTAL				7092.97
	Add Water Charges @ 1% except on A i.e on 6950.6				1.42
	TOTAL				7094.40 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				20.21
	Total				7114.61 (Y)
	Add CPOH @ 15% except on A i.e on (7114.61 -6950.56 =)				24.61
	Cost of each				7139.21
	Add 1% labour cess				71.39
	Rate	each			7210.60
18.34	Constructing masonry chamber 90x90x100 cm inside, in brick work 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), i/c 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.				
18.34.1	With common burnt clay F.P.S. (non modular) bricks of class designation 100A Details of cost for one chamber MATERIAL: (i) Earth work in excavation including refilling and disposal of surplus earth 1.51 x 1.51 x 1.25 m				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	2.85	379.87	1082.62 A
2.26	Rate as per Item Number 2.25 of SH: Earth work (ii) Cement concrete 1:5:10(1 Cement: 5 fine sand : 10 graded stone aggregate 40mm nominal size) 1.51x1.51x0.1m=0.228cum. Say 0.23 cum.	cum	2.85	122.72	349.75 A
4.1.10	Rate as per Item Number 4.1.11 of SH: Concrete work	cum	0.23	2704.43	622.02 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(iii) Second class brick work in cement mortar 1:4 (1 Cement: 4coarse sand) in foundations and plinth 4.52mx0.23mx 1.00m= 1.04cum.				
6.1.2A	Rate as per Item Number 6.1.1 of SH: Brick work (iv) 12mm cement plaster 1:3 (1 Cement: 3 Coarse sand) finished with a floating coat of neat cement. 3.60mx1.00m=3.60sqm. 0.90mx0.90m=0.81sqm. Total =4.41 sqm	cum	1.04	4968.25	5166.98 A
13.17.1	Rate as per Item Number 13.9.1 of SH: Finishing (v) C.I. surface box with chained lid.	sqm	4.41	433.17	1910.28 A
1305	Surface box for sluice valve (vi)	each	1.00	210.00	210.00
9999	Carriage of C.I. surface box (vii) Cement concrete 1:2:4 (1 Cement: 2 coarse sand ; 4 graded stone aggregate 20mm nominal size) in slab = 1.36mx 1.36mx0.15m = 0.2774 cum. Less surface box 0.7854x0.156mx0. 156mx0.18m = (-) 0.0034 cum. = 0.2740 cum. Say 0.27 cum.	L.S.	8.06	2.12	17.09
5.3	Rate as per Item Number 5.3 of SH: Reinforced cement concrete work (viii) Less labour for not lifting the materilas upto floor five level	cum	0.27	5335.95	1440.71 A
115	Coolie (ix) Mild steel reinforcement for RCC work etc. 0.274cum.x80kg/cum. = 21.92 kg.	day	-0.51	318.00	-162.18
5.22.1	Rate as per Item Number 5.22.1 of SH: Reinforced cement concrete work (x) Form work 0.90mx0.90m=0.81sqm.+ 4.52mx0.15m = 0.68 sqm. Total = 1.49 sqm.	kilogram	21.92	95.77	2099.24 A
5.9.3	Rate as per Item Number 5.9.3 of SH: Reinforced cement concrete work (xi)	sqm	1.49	433.17	645.42 A
9999	Sundries	L.S.	8.06	2.12	17.09
	TOTAL				13399.01
	Add Water Charges @ 1% except on A i.e on 13317.0				0.82
	TOTAL				13399.83 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				11.64
	Total				13411.46 (Y)
	Add CPOH @ 15% except on A i.e on (13411.46-13317.01)=				14.17
	Cost of each				13425.63
	Add 1% labour cess				134.26
	Rate				13559.90







402




Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.35	Constructing masonry chamber 120x120x100 cm inside, in brick work 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 20mm nominal size), i/c 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.				
18.35.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5. Details of cost for one chamber. MATERIAL: (i) Earth work in excavation including refilling and disposal of surplus earth 1.81X1.81X1.25 m				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	4.10	379.87	1557.46 A
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	4.10	122.72	503.15 A
4.1.11	(ii) Cement concrete 1:5:10 (1 Cement: 5 fine sand : 10 graded stone aggregate 40mm nominal size) 1.81x1.81x0.1m=0.328cum. Say 0.33 cum. Rate as per Item Number 4.1.11 of SH: Concrete work	cum	0.33	2704.43	892.46 A
6.1.1	(iii) Second class brick work in cement mortar 1:4 (1 Cement: 4coarse sand) in foundations and plinth 5.72x0.23x1.00=1.316cum. Say 1.32 cum. Rate as per Item Number 6.1.1 of SH: Brick work	cum	1.32	4968.25	6558.09 A
13.9.1	(iv) 12mm cement plaster 1:3 (1 Cement: 3 Coarse sand) finished with a floating coat of neat cement. 4.80mx1.00m=4.80sqm. 1.20 x 1.20m=1.44sqm. =6.42sqm. Rate as per Item Number 13.9.1 of SH: Finishing	sqm	6.42	433.17	2780.95 A
1305	(v) C.I. surface box with chained lid Surface box for sluice valve (vi)	each	1.00	210.00	210.00
9999	Carriage of C.I. surface box	L.S.	8.06	2.12	17.09
(vii)	Cement concrete 1:2:4 (1 Cement: 2 Coarse sand ; 4 graded stone aggregate 20mm nominal size) in slab = 1.66mx 1.66mx 0.15m = 0.4133 cum. Less surface box 0.7854x0.156x0.156x0.18 = (-)0.0034 cum. Total = 0.4099 cum. Say 0.41 cum.				
5.3	Rate as per Item Number 5.3 of SH: Reinforced cement concrete work	cum	0.41	5335.95	2187.74 A
115	(viii) Less labour for not lifting the materilas upto floor five level Coolie (ix) Mild steel reinforcement for RCC slab steel @ 80kg/cum. 0.41cum.x80kg/cum. = 32.80kg.	day	-0.77	318.00	-244.86

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.22.1	Rate as per Item Number 5.22.1 of SH: Reinforced cement concrete work (x) Form work 1.20mx1.20m=1.44sqm.+ 5.72mx0.15m=0.86sqm. = 2.30sqm	kilogram	32.80	95.77	3141.19 A
5.9.3	Rate as per Item Number 5.9.3 of SH: Reinforced cement concrete work (xi)	sqm	2.30	433.17	996.29 A
9999	Sundries	L.S.	8.06	2.12	17.09
	TOTAL				18616.64
	Add Water Charges @ 1% except on A i.e on				-0.01
	18617.3				
	TOTAL				18616.64 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				-0.10
	Total				18616.54 (Y)
	Add CPOH @ 15% on "Y" except on A i.e				-0.12
	(18616.54-18617.33)=				
	Cost of each				18616.42
	Add 1% labour cess				186.16
	Rate	each			18802.60
18.36	Constructing masonry chamber 60x60x75 cm inside, in brick work 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), i/c 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.				
18.36.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5.				
	Details of cost for one chamber.				
	MATERIAL:				
	(i) Earth work in excavation including refilling and disposal of surplus earth				
	1.21x1.21x1.00m =1.464 cum say 1.46cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	1.46	379.87	554.61 A
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	1.46	122.72	179.17 A
	(ii) Cement concrete 1:5:10 (1 Cement: 5 fine sand : 10 graded stone aggregate 40mm nominal size)				
	1.21x1.21x0.1m=0.146cum. Say 0.15 cum.				
4.1.11	Rate as per Item Number 4.1.11 of SH: Concrete work	cum	0.15	2704.43	405.66 A
	(iii) Second class brick work in cement mortar 1:4				
	(1 Cement: 4 coarse sand) in foundations and plinth				
	3.32x0.23x0.75=0.573cum. Say 0.57 cum.				
6.1.1	Rate as per Item Number 6.1.1 of SH: Brick work	cum	0.57	4968.25	2831.90 A
	(iv) 12mm cement plaster 1:3 (1 Cement: 3 Coarse sand) finished with a floating coat of neat cement.				
	2.40x0.75=1.80sqm.				
	0.90mx0.90m=0.36sqm.				
	Total =2.16sqm				














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.9.1	Rate as per Item Number 13.9.1 of SH: Finishing	sqm	2.16	433.17	935.65 A
1305	(v) C.I. surface box with chained lid Surface box for sluice valve	each	1.00	210.00	210.00
9999	(vi) Carriage of C.I. surface box	L.S.	53.82	2.12	114.10
	(vii) Cement concrete 1:2:4 (1 Cement: 2 Coarse sand ; 4 graded stone aggregate 20mm nominal size) in slab = 1.06x1.06x 0.15 = 0.1685 cum. Less surface box 0.61x0.41mx0.15m= (-)0.0375 cum. = 0.131 cum. Say 0.13 cum				
5.3	Rate as per Item Number 5.3 of SH: Reinforced cement concrete work	cum	0.13	5335.95	693.67 A
	(viii) Less labour for not lifting the materilas upto floor five level				
115	Coolie	day	-0.24	318.00	-76.32
	(ix) Mild steel reinforcement for RCC work etc. 0.131cumx80kg/cum. = 10.48kg				
5.22.1	Rate as per Item Number 5.22.1 of SH: Reinforced cement concrete work	kilogram	10.48	95.77	1003.65 A
	(x) Form work 0.60mx0.60m=0.36sqm.+ 3.32mx0.15m = 0.50 sqm. =0.86 sqm				
5.9.3	Rate as per Item Number 5.9.3 of SH: Reinforced cement concrete work	sqm	0.86	433.17	372.53 A
	(xi)				
9999	Sundries	L.S.	8.06	2.12	17.09
	TOTAL				7241.70
	Add Water Charges @ 1% except on A i.e on 6976.8				2.65
	TOTAL				7244.35 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				37.59
	Total				7281.94 (Y)
	Add CPOH @ 15% except on A i.e on (7281.94-6976.84)=				45.77
	Cost of each				7327.70
	Add 1% labour cess				73.28
	Rate	each			7401.00
18.37	Constructing masonry chamber 60x45x50 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for water meter complete with C.I. double flap surface box 400x200x200 mm (inside) with locking arrangement and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c 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.				
18.37.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5. Details of cost for one chamber. MATERIAL:				
	(i) Earth work in excavation including refilling and disposal of surplus earth 1.21X1.06X0.85m = 1.09 cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	1.09	379.87	414.06 A

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.25	Rate as per Item Number 2.25 of SH: Earth work (ii) Cement concrete 1:5:10 (1 Cement: 5 fine sand : 10 graded stone aggregate 40mm nominal size) $1.21 \times 1.06 \times 0.1 = 0.128 \text{ cum}$. Say 0.13 cum.	cum	1.09	122.72	133.76 A
4.1.11	Rate as per Item Number 4.1.11 of SH: Concrete work (iii) Second class brick work in cement mortar 1:4 (1 Cement: 4 coarse sand) in foundations and plinth $3.02 \times 0.23 \times 0.50 = 0.347 \text{ cum}$. Say 0.35 cum	cum	0.13	2704.43	351.58 A
6.1.1	Rate as per Item Number 6.1.1 of SH: Brick work (iv) 12mm cement plaster 1:3 (1 Cement: 3 Coarse sand) finished with a floating coat of neat cement. $2.10 \times 0.50 = 1.05 \text{ sqm}$. $0.60 \times 0.45 = 0.27 \text{ sqm}$. Total = 1.32 sqm	cum	0.35	4968.25	1738.89 A
13.9.1	Rate as per Item Number 13.9.1 of SH: Finishing (v) C.I. surface box 400x200x200mm (inside) with locking arrangement	sqm	1.32	433.17	571.78 A
1307	Surface box for water meter (vi)	each	1.00	268.37	268.37
9999	Carriage of C.I. surface box (vii) Cement concrete 1:2:4 (1 Cement: 2 Coarse sand ; 4 graded stone aggregate 20 mm nominal size) in slab = $1.06 \times 0.91 \times 0.25 = 0.241 \text{ cum}$. Less surface box $0.42 \times 0.22 \times 0.2 = (-) 0.018 \text{ cum}$ Total = 0.223 cum. Say 0.22 cum.	L.S.	13.52	2.12	28.66
5.3	Rate as per Item Number 5.3 of SH: Reinforced cement concrete work (viii) Less labour for not lifting the materials upto floor five level	cum	0.22	5335.95	1173.91 A
115	Coolie (ix) Mild steel reinforcement for RCC work steel @ 80kg/cum.	day	-0.41	318.00	-130.38
0.223	cum.x80kg/cum. = 17.84 kg	kilogram	17.84	95.77	1708.50 A
5.22.1	Rate as per Item Number 5.22.1 of SH: Reinforced cement concrete work (x) Form work $0.60 \text{ m} \times 0.45 \text{ m} = 0.27 \text{ sqm}$. + $3.02 \text{ m} \times 0.25 \text{ m} = 0.76 \text{ sqm}$. = 1.03 sqm				
5.9.3	Rate as per Item Number 5.9.3 of SH: Reinforced cement concrete work (xi)	sqm	1.03	433.17	446.16 A
9999	Sundries	L.S.	8.06	2.12	17.09
	TOTAL				6722.38
	Add Water Charges @ 1% except on A i.e on				1.84
	6538.6				
	TOTAL				6724.22 (X)














BCD Analysis of Rates 2022

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST 12% on "X"except A (multiplying factor 0.1405)				26.07
	Total				6750.29 (Y)
	Add CPOH @ 15% except on A i.e on (6750.29-6538.64)=				31.75
	Cost of each				6782.04
	Add 1% labour cess				67.82
	Rate	each			6849.90
18.38	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work.				
18.38.1	15 mm diameter pipe.				
	Details of cost for 10 metres.				
	Perimeter = 0.0673 metre				
	Area 10x0.0673m = 0.673sqm.				
	Priming Coat				
13.81.3	Rate as per Item Number 13.81.3 of SH: Finishing	sqm	0.673	34.30	23.08 A
	Painting two coats excluding priming coat with white paint on new work				
13.93.1	Rate as per Item Number 13.93.1 of SH: Finishing	sqm	0.673	83.67	56.31 A
9999	Add for delay	L.S.	13.52	2.12	28.66
	TOTAL				108.06
	Add Water Charges @ 1% except on A i.e on TOTAL				0.29
	TOTAL				108.34 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				4.07
	TOTAL				112.41 (Y)
	Add CPOH @ 15% on "Y"except on A i.e on				4.95
	Cost of 10 metre				117.36
	Cost of 1 metre				11.74
	Add 1% labour cess				0.12
	Rate	per m			11.90
18.38.2	20 mm diameter pipe.				
	Details of cost for 10 metres.				
	Perimeter = 0.0845 metre				
	Area = 10x0.0845 sqm. = 0.845 sqm.				
	Priming Coat				
13.81.3	Rate as per Item Number 13.81.3 of SH: Finishing	sqm	0.845	34.30	28.98 A
	Painting two coats excluding priming coat with white paint on new work				
13.93.1	Rate as per Item Number 13.93.1 of SH: Finishing	sqm	0.845	83.67	70.70 A
9999	Add for delay	L.S.	13.52	2.12	28.66
	TOTAL				128.35
	Add Water Charges @ 1% except on A i.e on TOTAL				0.29
	TOTAL				128.63 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				4.07
	TOTAL				132.70 (Y)
	Add CPOH @ 15% on "Y"except on A i.e on				4.95
	Cost of 10 metre				137.65
	Cost of 1 metre				13.77
	Add 1% labour cess				0.14
	Rate	per m			13.90
18.38.3	25 mm diameter pipe.				
	Details of cost for 10 metre.				
	Perimeter = 0.1061 metre				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Area= 10x0.1061 sqm. = 1.061 sqm				
	Priming coat				
13.81.3	Rate as per Item Number 13.81.3 of SH:	sqm	1.061	34.30	36.39 A
	Finishing				
	Painting two coats excluding priming coat with white paint on new work				
13.93.1	Rate as per Item Number 13.93.1 of SH:	sqm	1.061	83.67	88.77 A
	Finishing				
9999	Add for delay	L.S.	20.28	2.12	42.99
	TOTAL				168.16
	Add Water Charges @ 1% except on A i.e on				0.43
	TOTAL				168.59 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				6.10
	TOTAL				174.69 (Y)
	Add CPOH @ 15% on "Y"except on A i.e on				7.43
	Cost of 10 metre				182.12
	Cost of 1 metre				18.21
	Add 1% labour cess				0.18
	Rate	per m			18.40
18.38.4	32 mm diameter pipe.				
	Details of cost for 10 metres.				
	Perimeter = 0.1334 metre				
	Area = 10x0.1334 sqm. = 1.334 sqm.				
	Priming Coat				
13.81.3	Rate as per Item Number 13.81.3 of SH:	sqm	1.334	34.30	45.76 A
	Finishing				
	Painting two coats excluding priming coat with white paint on new work				
13.93.1	Rate as per Item Number 13.93.1 of SH:	sqm	1.334	83.67	111.61 A
	Finishing				
9999	Add for delay	L.S.	20.28	2.12	42.99
	TOTAL				200.37
	Add Water Charges @ 1% except on A i.e on				0.43
	TOTAL				200.80 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				6.10
	TOTAL				206.90 (Y)
	Add CPOH @ 15% on "Y"except on A i.e on				7.43
	Cost of 10 metre				214.33
	Cost of 1 metre				21.43
	Add 1% labour cess				0.21
	Rate	per m			21.60
18.38.5	40 mm diameter pipe.				
	Details of cost for 10 metre.				
	Perimeter = 0.1520 metre				
	Area = 10x0.1520 sqm.= 1.520 sqm.				
	Priming Coat				
13.81.3	Rate as per Item Number 13.81.3 of SH:	sqm	1.52	34.30	52.14 A
	Finishing				
	Painting two coats excluding priming coat with white paint on new work				
13.93.1	Rate as per Item Number 13.93.1 of SH:	sqm	1.52	83.67	127.18 A
	Finishing				
9999	(a)add for delay	L.S.	26.91	2.12	57.05
	TOTAL				236.36
	Add Water Charges @ 1% except on A i.e on				0.57
	TOTAL				236.93 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				8.10














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				245.03 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				9.86
	Cost of 10 metre				254.89
	Cost of 1 metre				25.49
	Add 1% labour cess				0.25
	Rate	per m			25.70
18.38.6	50 mm diameter pipe.				
	Details of cost for 10 metre.				
	Perimeter = 0.1894 metre				
	Area = 10x0.1894 sqm. = 1.894 sqm.				
	Priming Coat				
13.81.3	Rate as per Item Number 13.81.3 of SH:	sqm	1.894	34.30	64.97 A
	Finishing				
	Painting two coats excluding priming coat with white paint on new work				
13.93.1	Rate as per Item Number 13.93.1 of SH:	sqm	1.894	83.67	158.47 A
	Finishing				
9999	Add for delay	L.S.	26.91	2.12	57.05
	TOTAL				280.48
	Add Water Charges @ 1% except on A i.e on				0.57
	TOTAL				281.05 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				8.10
	TOTAL				289.15 (Y)
	Add CPOH @ 15% except on A i.e on				9.86
	Cost of 10 metre				299.01
	Cost of 1 metre				29.90
	Add 1% labour cess				0.30
	Rate	per m			30.20
18.39	Repainting G.I. pipes and fittings with synthetic enamel white paint with one coat of approved quality.				
18.39.1	15 mm diameter pipe.				
	Details of cost for 10 metre.				
	Painting one coat with white paint on old work				
13.93.2	Rate as per Item Number 13.93.2 of SH:	sqm	0.673	53.76	36.18 A
	Repairs to buildings				
9999	Add for delay	L.S.	8.06	2.12	17.09
	TOTAL				53.27
	Add Water Charges @ 1% except on A i.e on				0.17
	TOTAL				53.44 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				2.42
	TOTAL				55.86 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				2.95
	Cost of 10 metre				58.81
	Cost of 1 metre				5.88
	Add 1% labour cess				0.06
	Rate	per m			5.90
18.39.2	20 mm diameter pipe.				
	Details of cost for 10 metre.				
	Painting one coat with white paint on old work				
13.93.2	Rate as per Item Number 13.93.2 of SH:	sqm	0.845	53.76	45.42 A
	Repairs to buildings				
9999	Add for delay	L.S.	8.06	2.12	17.09
	TOTAL				62.51
	Add Water Charges @ 1% except on A i.e on				0.17

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				62.68 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				2.42
	TOTAL				65.11 (Y)
	Add CPOH @ 15% on "Y"except on A i.e on				2.95
	Cost of 10 metre				68.06
	Cost of 1 metre				6.81
	Add 1% labour cess				0.07
	Rate	per m			6.90
18.39.3	25 mm diameter pipe.				
	Details of cost for 10 metre.				
	Painting one coat with white paint on old work				
13.93.2	Rate as per Item Number 13.93.2 of SH:	sqm	1.061	53.76	57.04 A
	Repairs to buildings				
9999	Add for delay	L.S.	10.79	2.12	22.87
	TOTAL				79.91
	Add Water Charges @ 1% except on A i.e on				0.23
	TOTAL				80.14 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				3.25
	TOTAL				83.39 (Y)
	Add CPOH @ 15% on "Y"except on A i.e on				3.95
	Cost of 10 metre				87.34
	Cost of 1 metre				8.73
	Add 1% labour cess				0.09
	Rate	per m			8.80
18.39.4	32 mm diameter pipe.				
	Details of cost for 10 metre.				
	Painting one coat with white paint on old work				
13.93.2	Rate as per Item Number 13.93.2 of SH:	sqm	1.334	53.76	71.71 A
	Repairs to buildings				
9999	Add for delay	L.S.	10.92	2.12	23.15
	TOTAL				94.86
	Add Water Charges @ 1% except on A i.e on				0.23
	TOTAL				95.09 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				3.29
	TOTAL				98.38 (Y)
	Add CPOH @ 15% on "Y"except on A i.e on				4.00
	Cost of 10 metre				102.38
	Cost of 1 metre				10.24
	Add 1% labour cess				0.10
	Rate	per m			10.30
18.39.5	40 mm diameter pipe.				
	Details of cost for 10 metre.				
	Painting one coat with white paint on old work				
13.93.2	Rate as per Item Number 13.93.2 of SH:	sqm	1.52	53.76	81.71 A
	Repairs to buildings				
9999	Add for delay	L.S.	13.52	2.12	28.66
	TOTAL				110.37
	Add Water Charges @ 1% except on A i.e on				0.29
	TOTAL				110.66 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				4.07
	TOTAL				114.73 (Y)
	Add CPOH @ 15% on "Y"except on A i.e on				4.95
	Cost of 10 metre				119.68
	Cost of 1 metre				11.97














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1% labour cess				0.12
	Rate	per m			12.10
18.39.6	50 mm diameter pipe.				
	Details of cost for 10 metre.				
	Painting one coat with white paint on old work				
13.93.2	Rate as per Item Number 13.93.2 of SH:	sqm	1.894	53.76	101.82 A
	Repairs to buildings				
9999	Add for delay	L.S.	13.52	2.12	28.66
	TOTAL				130.48
	Add Water Charges @ 1% except on A i.e on				0.29
	TOTAL				130.77 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				4.07
	TOTAL				134.83 (Y)
	Add CPOH @ 15% on "Y"except on A i.e on				4.95
	Cost of 10 metre				139.79
	Cost of 1 metre				13.98
	Add 1% labour cess				0.14
	Rate	per m			14.10
18.40	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality.				
18.40.1	15 mm diameter pipe.				
	Details of cost for 10 metre.				
	Painting with anti-corrosive paint two coats				
13.97.1	Rate as per Item Number 13.97.1 of SH:	sqm	0.673	64.90	43.68 A
	Finishing				
9999	Add for delay	L.S.	8.06	2.12	17.09
	TOTAL				60.77
	Add Water Charges @ 1% except on A i.e on				0.17
	TOTAL				60.94 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				2.42
	TOTAL				63.36 (Y)
	Add CPOH @ 15% on "Y"except on A i.e on				2.95
	Cost of 10 metre				66.31
	Cost of 1 metre				6.63
	Add 1% labour cess				0.07
	Rate	per m			6.70
18.40.2	20 mm diameter pipe.				
	Details of cost for 10 metre.				
	Painting with anti-corrosive paint two coats				
13.97.1	Rate as per Item Number 13.97.1 of SH:	sqm	0.845	64.90	54.84 A
	Finishing				0.00
9999	Add for delay	L.S.	8.06	2.12	17.09
	TOTAL				71.93
	Add Water Charges @ 1% except on A i.e on				0.17
	TOTAL				72.10 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				2.42
	TOTAL				74.53 (Y)
	Add CPOH @ 15% on "Y"except on A i.e on				2.95
	Cost of 10 metre				77.48
	Cost of 1 metre				7.75
	Add 1% labour cess				0.08
	Rate	per m			7.80
18.40.3	25 mm diameter pipe.				
	Details of cost for 10 metre.				
	Painting with anti-corrosive paint two coats				
13.97.1	Rate as per Item Number 13.97.1 of SH:	sqm	1.061	64.90	68.86 A
	Finishing				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Add for delay	L.S.	10.79	2.12	22.87
	TOTAL				91.74
	Add Water Charges @ 1% except on A i.e on				0.23
	TOTAL				91.97 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				3.25
	TOTAL				95.21 (Y)
	Add CPOH @ 15% on "Y"except on A i.e on				3.47
	Cost of 10 metre				98.68
	Cost of 1 metre				9.87
	Add 1% labour cess				0.10
	Rate	per m			10.00
18.40.4	32 mm diameter pipe.				
	Details of cost for 10 metre.				
	Painting with anti-corrosive paint two coats				
13.97.1	Rate as per Item Number 13.97.1 of SH:	sqm	1.334	64.90	86.58 A
	Finishing				
9999	Add for delay	L.S.	10.79	2.12	22.87
	TOTAL				109.45
	Add Water Charges @ 1% except on A i.e on				0.23
	TOTAL				109.68 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				3.25
	TOTAL				112.93 (Y)
	Add CPOH @ 15% on "Y"except on A i.e on				3.47
	Cost of 10 metre				116.39
	Cost of 1 metre				11.64
	Add 1% labour cess				0.12
	Rate	per m			11.80
18.40.5	40 mm diameter pipe.				
	Details of cost for 10 metre.				
	Painting with anti-corrosive paint two coats				
13.97.1	Rate as per Item Number 13.97.1 of SH:	sqm	1.52	64.90	98.65 A
	Finishing				
9999	Add for delay	L.S.	12.22	2.12	25.91
	TOTAL				124.56
	Add Water Charges @ 1% except on A i.e on				0.26
	TOTAL				124.82 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				3.68
	TOTAL				128.49 (Y)
	Add CPOH @ 15% on "Y"except on A i.e on				3.92
	Cost of 10 metre				132.42
	Cost of 1 metre				13.24
	Add 1% labour cess				0.13
	Rate	per m			13.40
18.40.6	50 mm diameter pipe.				
	Details of cost for 10 metre.				
	Painting with anti-corrosive paint two coats				
13.97.1	Rate as per Item Number 13.97.1 of SH:	sqm	1.894	64.90	122.93 A
	Finishing				
9999	Add for delay	L.S.	12.22	2.12	25.91
	TOTAL				148.83
	Add Water Charges @ 1% except on A i.e on				0.26
	TOTAL				149.09 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				3.68
	TOTAL				152.77 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				3.92
	Cost of 10 metre				156.69
	Cost of 1 metre				15.67














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1% labour cess				0.16
	Rate	per m			15.80
18.40.7	65 mm diameter pipe.				
	Details of cost for 10 metre.				
	Painting with anti-corrosive paint two coats				
13.97.1	Rate as per Item Number 13.97.1 of SH:	sqm	2.387	64.90	154.92 A
	Finishing				
9999	Add for delay	L.S.	13.52	2.12	28.66
	TOTAL				183.58
	Add Water Charges @ 1% except on A i.e on				0.29
	TOTAL				183.87 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				4.07
	TOTAL				187.94 (Y)
	Add CPOH @ 15% except on A i.e on				4.34
	Cost of 10 metre				192.28
	Cost of 1 metre				19.23
	Add 1% labour cess				0.19
	Rate	per m			19.40
18.40.8	80 mm diameter pipe.				
	Details of cost for 10 metre.				
	Painting with anti-corrosive paint two coats				
13.97.1	Rate as per Item Number 13.97.1 of SH:	sqm	2.796	64.90	181.47 A
	Finishing				
9999	Add for delay	L.S.	14.82	2.12	31.42
	TOTAL				212.89
	Add Water Charges @ 1% except on A i.e on				0.31
	TOTAL				213.20 (X)
	Add GST 12% on "X"except A (multiplying factor 0.1405)				4.46
	TOTAL				217.66 (Y)
	Add CPOH @ 15% except on A i.e on				4.76
	Cost of 10 metre				222.42
	Cost of 1 metre				22.24
	Add 1% labour cess				0.22
	Rate	per m			22.50
18.41	Providing and filling sand of grading zone V or coarser grade, all- round the G.I. pipes in external work.				
18.41.1	15 mm diameter pipe.				
	Details of cost for sand filling alround				
	15mm dia pipe 10 m long.				
	Width of sand filling = 300mm				
	Depth of sand filling under the pipe=75mm+				
	Above the pipe = 150mm+				
	Max. external dia of pipe = 21.8mm				
	= 246.8mm say 247mm				
	Quantity of sand				
	= 10x0.30x0.247 = 0.744 cum.				
	Less for pipe				
	= (3.142 x 0.0218 ² / 4)x10 = (-)0.004 cum.				
	= 0.74 cum				
18.41.1A	Rate as per Item Number 18.41.1A of	cum	0.74	270.73	200.34 A
	SH: Water supply				
	TOTAL				200.34
	Cost of 10 metre				200.34
	Cost of 1 metre				20.03
	Add 1% labour cess				0.20
	Rate	per m			20.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.41.1A	Sub analysis item for sand filling component				
18.41.1A	Details of cost for 1 cum sand.				
	MATERIAL:				
6501	Local Sand	cum	1	141.85	141.85
2335	Carriage of Local sand	cum	1	0.00	0.00
	LABOUR:				
114	Beldar	day	0.09	306.00	27.54
115	Coolie	day	0.11	318.00	34.98
	TOTAL				204.37
	Add Water Charges @ 1%				2.04
	TOTAL				206.41
	Add GST 12% on "X" (multiplying factor 0.1405)				29.00
	TOTAL				235.41
	Add CPOH @ 15% on "Y"				35.31
	Cost of 1 cum				270.73
	Add 1% labour cess				2.71
	Rate	cum			273.40
18.41.2	20 mm diameter pipe.				
	Details of cost for sand filling around				
	20mm dia pipe 10 m long.				
	Width of sand filling = 300mm				
	Depth of sand filling under the pipe=75mm+				
	Above the pipe = 150mm+				
	Max. external dia of pipe = 27.3mm				
	= 252.3 Say 252mm				
	Quantity of sand				
	= $10 \times 0.30 \times 0.252 = 0.756$ cum.				
	Less for pipe				
	= $(3.142 \times 0.0273^2 / 4) \times 10 = (-)0.006$ cum.				
	= 0.750 cum				
18.41.1A	Rate as per Item Number 18.41.1A of	cum	0.75	270.73	203.05 A
	SH: Water supply				
	TOTAL				203.05
	Cost of 10 metre				203.05
	Cost of 1 metre				20.30
	Add 1% labour cess				0.20
	Rate	per m			20.50
18.41.3	25 mm diameter pipe.				
	Details of cost for sand filling around				
	25mm dia pipe 10 m long.				
	Width of sand filling = 300mm				
	Depth of sand filling under the pipe=75mm				
	Above the pipe = 150mm				
	Max. external dia of pipe = 34.2mm				
	= 259.2 Say 259mm				
	Quantity of sand				
	= $10 \times 0.30 \times 0.259 = 0.777$ cum.				
	Less for pipe				
	= $(3.142 \times 0.0342^2 / 4) \times 10 = (-)0.009$ cum.				
	= 0.768 Say 0.77 cum				
18.41.1A	Rate as per Item Number 18.41.1A of	cum	0.77	270.73	208.46 A
	SH: Water supply				
	TOTAL				208.46
	Cost of 10 metre				208.46
	Cost of 1 metre				20.85
	Add 1% labour cess				0.21
	Rate	per m			21.10








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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.41.4	32 mm diameter pipe. Details of cost for sand filling alround 32mm dia pipe 10 m long. Width of sand filling = 300mm Depth of sand filling under the pipe=75mm+ Above the pipe = 150mm+ Max. external dia of pipe = 42.9mm = 267.9 Say 268mm Quantity of sand = 10x0.30x0.268 =0.804 cum Less for pipe (3.142 x 0.0429 ² / 4)x 10 = (-)0.014cum. = 0.790 Say 0.79 cum.				
18.41.1A	Rate as per Item Number 18.41.1A of SH: Water supply	cum	0.79	270.73	213.87 A
	TOTAL				213.87
	Cost of 10 metre				213.87
	Cost of 1 metre				21.39
	Add 1% labour cess				0.21
	Rate	per m			21.60
18.41.5	40 mm diameter pipe. Details of cost for sand filling alround 40mm dia pipe 10 m long. Width of sand filling = 300mm Depth of sand filling under the pipe=75mm+ Above the pipe = 150mm+ Max. external dia of pipe = 48.8mm = 273.8 Say 274mm Quantity of sand = 10x0.30x0.274 = 0.82cum Less for pipe (3.142 x 0.0488 ² / 4)x10 = (-)0.014cum. = 0.801 Say 0.80 cum				
18.41.1A	Rate as per Item Number 18.41.1A of SH: Water supply	cum	0.8	270.73	216.58 A
	TOTAL				216.58
	Cost of 10 metre				216.58
	Cost of 1 metre				21.66
	Add 1% labour cess				0.22
	Rate	per m			21.90
18.41.6	50 mm diameter pipe. Details of cost for sand filling alround 50mm dia pipe 10 m long. Width of sand filling = 300mm Depth of sand filling under the pipe=75mm+ Above the pipe =150mm+ Max. external dia of pipe = 60.8mm = 285.8 Say 286mm Quantity of sand =10x0.30x0.286 =0.858 cum Less for pipe (3.142 x 0.0608 ² / 4)x10 = (-)0.029cum. = 0.829 Say 0.83 cum				
18.41.1A	Rate as per Item Number 18.41.1A of SH: Water supply	cum	0.83	270.73	224.70 A
	TOTAL				224.70
	Cost of 10 metre				224.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 metre				22.47
	Add 1% labour cess				0.22
	Rate	per m			22.70
18.41.7	65 mm diameter pipe.				
	Details of cost for sand filling around				
	65mm dia pipe 10 m long.				
	Width of sand filling = 300mm				
	Depth of sand filling under the pipe=75mm+				
	Above the pipe = 150mm+				
	Max. external dia of pipe = 76.6mm				
	= 301.6 Say 302mm				
	Quantity of sand				
	= $10 \times 0.45 \times 0.302 = 1.359 \text{ cum}$				
	Less for pipe				
	$(3.142 \times 0.0766^2 / 4) \times 10 = (-) 0.046 \text{ cum.}$				
	= 1.313 Say 1.31 cum				
18.41.1A	Rate as per Item Number 18.41.1A of	cum	1.31	270.73	354.65 A
	SH: Water supply				
	TOTAL				354.65
	Cost of 10 metre				354.65
	Cost of 1 metre				35.47
	Add 1% labour cess				0.35
	Rate	per m			35.80
18.41.8	80 mm diameter pipe.				
	Details of cost for sand filling around				
	80mm dia pipe 10 m long.				
	Width of sand filling = 300mm				
	Depth of sand filling under the pipe=75mm+				
	Above the pipe = 150mm+				
	Max. external dia of pipe = 89.9mm				
	= 314.9 Say 315mm				
	Quantity of sand				
	= $10 \times 0.45 \times 0.315 = 1.418 \text{ cum}$				
	Less for pipe				
	$(3.142 \times 0.0899^2 / 4) \times 10 = (-) 0.0640 \text{ cum.}$				
	= 1.354 Say 1.35 cum				
18.41.1A	Rate as per Item Number 18.41.1A of	cum	1.35	270.73	365.48 A
	SH: Water supply				
	TOTAL				365.48
	Cost of 10 metre				365.48
	Cost of 1 metre				36.55
	Add 1% labour cess				0.37
	Rate	per m			36.90
18.41.9	100 mm diameter pipe.				
	Details of cost for sand filling around				
	100mm dia pipe 10 m long.				
	Depth of sand filling under the pipe=75mm+				
	Above the pipe = 150mm+				
	Max. external dia of pipe = 115mm				
	= 340mm				
	Quantity of sand				
	= $10 \times 0.45 \times 0.34 = 1.53 \text{ cum}$				
	Less for pipe				
	$(3.142 \times 0.115^2 / 4) \times 10 = (-) 0.10 \text{ cum.}$				
	= 1.43 cum				
18.41.1A	Rate as per Item Number 18.41.1A of	cum	1.43	270.73	387.14 A
	SH: Water supply				













Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				387.14
	Cost of 10 metre				387.14
	Cost of 1 metre				38.71
	Add 1% labour cess				0.39
	Rate	per m			39.10
18.41.10	150 mm diameter pipe.				
	Details of cost for sand filling alround				
	150mm dia pipe 10 m long.				
	Width of sand filling = 300mm				
	Depth of sand filling under the pipe 75mm+				
	Above the pipe = 150mm+				
	Max. external dia of pipe = 166.5mm				
	= 391.50mm Say 0.392m				
	Quantity of sand				
	= 10x0.60x0.392 = 2.35 cum				
	Less for pipe				
	(3.142 x 0.0167 ² / 4)x10 = (-)0.22cum.				
	= 2.13 cum				
18.41.1A	Rate as per Item Number 18.41.1A of	cum	2.13	270.73	576.65 A
	SH: Water supply				
	TOTAL				576.65
	Cost of 10 metre				576.65
	Cost of 1 metre				57.66
	Add 1% labour cess				0.58
	Rate	per m			58.20
18.42	Boring with 100 mm diameter casing pipe for hand pump / tube well in all soils except ordinary hard rocks requiring blasting, including removing the casing pipeafter the hand pump/ tube well is lowered and tested.				
18.42.1	Upto 6 metres depth.				
	Details of cost for 6 metre.				
	LABOUR :				
	For boring and removing the pipe-				
116	Fitter (grade 1)	day	0.50	420.00	210.00
114	Beldar	day	3.00	306.00	918.00
10	Hire charges of Derrick monkey rope	day	0.50	750.00	375.00
	and other accessories				
	Depreciation @ 2% of the cost of casing pipe				
	6metre @ Rs. per metre				
1472	Casing pipe 100 mm dia	metre	0.12	340.00	40.80
9999	Sundries	L.S.	13.52	2.12	28.66
	TOTAL				1572.46
	Add Water Charges @ 1%				15.72
	TOTAL				1588.19 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				223.14
	TOTAL				1811.33 (Y)
	Add CPOH @ 15% on "Y"				271.70
	Cost of 6 metre				2083.03
	Cost of 1 metre				347.17
	Add 1% labour cess				3.47
	Rate	per m			350.60
18.42.2	Beyond 6 m and upto 12 m depth.				
	Details of cost for 6 metre.				
	LABOUR :				
	For boring and removing the pipe-				
116	Fitter (grade 1)	day	0.62	420.00	260.40
114	Beldar	day	3.50	306.00	1071.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
10	Hire charges of Derrick monkey rope and other accessories	day	0.62	750.00	465.00
	Depreciation @ 2% of the cost of casing pipe 6metre @ Rs. per metre				
1472	Casing pipe 100 mm dia	metre	0.12	340.00	40.80
9999	Sundries	L.S.	13.52	2.12	28.66
	TOTAL				1865.86
	Add Water Charges @ 1%				18.66
	TOTAL				1884.52 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				264.78
	TOTAL				2149.30 (Y)
	Add CPOH @ 15% on "Y"				322.39
	Cost of 6 metre				2471.69
	Cost of 1 metre				411.95
	Add 1% labour cess				4.12
	Rate	per m			416.10
18.42.3	Beyond 12 m and upto 18 m depth.				
	Details of cost for 6 metre.				
	LABOUR :				
	For boring and removing the pipe-				
116	Fitter (grade 1)	day	0.75	420.00	315.00
114	Beldar	day	4.00	306.00	1224.00
10	Hire charges of Derrick monkey rope and other accessories	day	0.75	750.00	562.50
	Depreciation @ 2% of the cost of casing pipe 6metre @ Rs. per metre				
1472	Casing pipe 100 mm dia	metre	0.12	340.00	40.80
9999	Sundries	L.S.	13.52	2.12	28.66
	TOTAL				2170.96
	Add Water Charges @ 1%				21.71
	TOTAL				2192.67 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				308.07
	TOTAL				2500.74 (Y)
	Add CPOH @ 15% on "Y"				375.11
	Cost of 6 metre				2875.85
	Cost of 1 metre				479.31
	Add 1% labour cess				4.79
	Rate	per m			484.10
18.43	Providing and placing in position filters of 40 mm diameter G.I. pipe with brass strainer of approved quality.				
	Details of cost for one strainer 1.5 long.				
	MATERIAL:				
1882	Strainer brass 40 mm dia 1.5 metre long	each	1	625.00	625.00
9999	Carriage of site	L.S.	13.52	2.12	28.66
	LABOUR:				0.00
116	Fitter (grade 1)	day	0.17	420.00	71.40
114	Beldar	day	0.17	306.00	52.02
9999	Sundries including hamp white lead etc.	L.S.	7.15	2.12	15.16
	TOTAL				792.24
	Add Water Charges @ 1%				7.92
	TOTAL				800.16 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				112.42
	TOTAL				912.59 (Y)
	Add CPOH @ 15% on "Y"				136.89
	Cost of 1.5 metre				1049.47
	Cost of 1 metre				699.65














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1% labour cess				7.00
	Rate	per m			706.60
18.44	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.				
	Details of cost for a depth of 10 metre.				
	MATERIAL:				
1549	G.I. pipes 40 mm dia	metre	10.20	290.00	2958.00
	Carriage of 40mm pipe(36.5kg)				
	Added 2% wastage and fittings				
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.04	145.72	5.43
9999	White lead, hamp and oil etc.	L.S.	6.76	2.12	14.33
116	Fitter (grade 1)	day	0.33	420.00	138.60
114	Beldar	day	0.75	306.00	229.50
9999	Sundries	L.S.	7.25	2.12	15.37
	TOTAL				3361.23
	Add Water Charges @ 1%				33.61
	TOTAL				3394.84 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				476.97
	TOTAL				3871.81 (Y)
	Add CPOH @ 15% on "Y"				580.77
	Cost of 10 metre				4452.59
	Cost of 1 metre				445.26
	Add 1% labour cess				4.45
	Rate	per m			449.70
18.45	Providing and placing in position hand pump of approved quality for 40 mm diameter G.I. pipe complete with all accessories.				
	Details of cost for 1 pump.				
	MATERIAL:				
1693	S.C.I. hand pump	each	1.00	700.00	700.00
9999	Carriage	L.S.	13.52	2.12	28.66
	LABOUR:				
116	Fitter (grade 1)	day	0.10	420.00	42.00
114	Beldar	day	0.10	306.00	30.60
9999	Sundries	L.S.	4.42	2.12	9.37
	TOTAL				810.63
	Add Water Charges @ 1%				8.11
	TOTAL				818.74 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				115.03
	TOTAL				933.77 (Y)
	Add CPOH @ 15% on "Y"				140.07
	Cost of each				1073.84
	Add 1% labour cess				10.74
	Rate	each			1084.60
18.46	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work).				
18.46.1	15 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1641	G.I. Union 15 mm nominal bore	each	1.00	35.00	35.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
116	Fitter (grade 1)	day	0.11	420.00	46.20
114	Beldar	day	0.11	306.00	33.66
	TOTAL				118.72
	Add Water Charges @ 1%				1.19
	TOTAL				119.91 (X)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST 12% on "X" (multiplying factor 0.1405)				16.85
	TOTAL				136.75 (Y)
	Add CPOH @ 15% on "Y"				20.51
	Cost of each				157.27
	Add 1% labour cess				1.57
	Rate	each			158.80
18.46.2	20 mm nominal bore				
	Details of cost for one no.				
	MATERIAL:				
1642	G.I. Union 20 mm nominal bore	each	1.00	55.00	55.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
116	Fitter (grade 1)	day	0.11	420.00	46.20
114	Beldar	day	0.11	306.00	33.66
	TOTAL				138.72
	Add Water Charges @ 1%				1.39
	TOTAL				140.11 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				19.68
	TOTAL				159.79 (Y)
	Add CPOH @ 15% on "Y"				23.97
	Cost of each				183.76
	Add 1% labour cess				1.84
	Rate	each			185.60
18.46.3	25 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1643	G.I. Union 25 mm nominal bore	each	1.00	115.00	115.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
116	Fitter (grade 1)	day	0.11	420.00	46.20
114	Beldar	day	0.11	306.00	33.66
	TOTAL				198.72
	Add Water Charges @ 1%				1.99
	TOTAL				200.71 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				28.20
	TOTAL				228.90 (Y)
	Add CPOH @ 15% on "Y"				34.34
	Cost of each				263.24
	Add 1% labour cess				2.63
	Rate	each			265.90
18.46.4	32 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1644	G.I. Union 32 mm nominal bore	each	1.00	145.00	145.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
116	Fitter (grade 1)	day	0.11	420.00	46.20
114	Beldar	day	0.11	306.00	33.66
	TOTAL				228.72
	Add Water Charges @ 1%				2.29
	TOTAL				231.01 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				32.46
	TOTAL				263.46 (Y)
	Add CPOH @ 15% on "Y"				39.52
	Cost of each				302.98
	Add 1% labour cess				3.03
	Rate	each			306.00







420




Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.46.5	40 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1645	G.I. Union 40 mm nominal bore	each	1.00	230.00	230.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
116	Fitter (grade 1)	day	0.11	420.00	46.20
114	Beldar	day	0.11	306.00	33.66
	TOTAL				313.72
	Add Water Charges @ 1%				3.14
	TOTAL				316.86 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				44.52
	TOTAL				361.37 (Y)
	Add CPOH @ 15% on "Y"				54.21
	Cost of each				415.58
	Add 1% labour cess				4.16
	Rate	each			419.70
18.46.6	50 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1646	G.I. Union 50 mm nominal bore	each	1.00	310.00	310.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
116	Fitter (grade 1)	day	0.15	420.00	63.00
114	Beldar	day	0.15	306.00	45.90
	TOTAL				422.76
	Add Water Charges @ 1%				4.23
	TOTAL				426.99 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				59.99
	TOTAL				486.98 (Y)
	Add CPOH @ 15% on "Y"				73.05
	Cost of each				560.02
	Add 1% labour cess				5.60
	Rate	each			565.60
18.46.7	65 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1647	G.I. Union 65 mm nominal bore	each	1.00	525.00	525.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
116	Fitter (grade 1)	day	0.15	420.00	63.00
114	Beldar	day	0.15	306.00	45.90
	TOTAL				637.76
	Add Water Charges @ 1%				6.38
	TOTAL				644.14 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				90.50
	TOTAL				734.64 (Y)
	Add CPOH @ 15% on "Y"				110.20
	Cost of each				844.83
	Add 1% labour cess				8.45
	Rate	each			853.30
18.46.8	80 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1648	G.I. Union 80 mm nominal bore	each	1.00	575.00	575.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
116	Fitter (grade 1)	day	0.15	420.00	63.00
114	Beldar	day	0.15	306.00	45.90
	TOTAL				687.76
	Add Water Charges @ 1%				6.88
	TOTAL				694.64 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				97.60
	TOTAL				792.23 (Y)
	Add CPOH @ 15% on "Y"				118.83
	Cost of each				911.07
	Add 1% labour cess				9.11
	Rate	each			920.20
18.47	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.				
18.47.1	15 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1641	G.I. Union 15 mm nominal bore	each	1.00	35.00	35.00
9999	Carriage of materials and sundries	L.S.	1.80	2.12	3.82
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
114	Beldar	day	0.33	306.00	100.98
	TOTAL				278.40
	Add Water Charges @ 1%				2.78
	TOTAL				281.18 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				39.51
	TOTAL				320.69 (Y)
	Add CPOH @ 15% on "Y"				48.10
	Cost of each				368.79
	Add 1% labour cess				3.69
	Rate	each			372.50
18.47.2	20 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1642	G.I. Union 20 mm nominal bore	each	1.00	55.00	55.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
114	Beldar	day	0.33	306.00	100.98
	TOTAL				298.44
	Add Water Charges @ 1%				2.98
	TOTAL				301.42 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				42.35
	TOTAL				343.77 (Y)
	Add CPOH @ 15% on "Y"				51.57
	Cost of each				395.34
	Add 1% labour cess				3.95
	Rate	each			399.30
18.47.3	25 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1643	G.I. Union 25 mm nominal bore	each	1.00	115.00	115.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
114	Beldar	day	0.33	306.00	100.98
	TOTAL				358.44








422




Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Water Charges @ 1%				3.58
	TOTAL				362.02 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				50.86
	TOTAL				412.89 (Y)
	Add CPOH @ 15% on "Y"				61.93
	Cost of each				474.82
	Add 1% labour cess				4.75
	Rate	each			479.60
18.47.4	32 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1644	G.I. Union 32 mm nominal bore	each	1.00	145.00	145.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
114	Beldar	day	0.33	306.00	100.98
	TOTAL				388.44
	Add Water Charges @ 1%				3.88
	TOTAL				392.32 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				55.12
	TOTAL				447.44 (Y)
	Add CPOH @ 15% on "Y"				67.12
	Cost of each				514.56
	Add 1% labour cess				5.15
	Rate	each			519.70
18.47.5	40 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1645	G.I. Union 40 mm nominal bore	each	1.00	230.00	230.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
114	Beldar	day	0.33	306.00	100.98
	TOTAL				473.44
	Add Water Charges @ 1%				4.73
	TOTAL				478.17 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				67.18
	TOTAL				545.36 (Y)
	Add CPOH @ 15% on "Y"				81.80
	Cost of each				627.16
	Say				6.27
					633.40
18.47.6	50 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1646	G.I. Union 50 mm nominal bore	each	1	310.00	310.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
116	Fitter (grade 1)	day	0.45	420.00	189.00
114	Beldar	day	0.45	306.00	137.70
	TOTAL				640.56
	Add Water Charges @ 1%				6.41
	TOTAL				646.96 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				90.90
	TOTAL				737.86 (Y)
	Add CPOH @ 15% on "Y"				110.68
	Cost of each				848.54

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1% labour cess				8.49
	Rate	each			857.00
18.47.7	65 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1647	G.I. Union 65 mm nominal bore	each	1	525.00	525.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
116	Fitter (grade 1)	day	0.45	420.00	189.00
114	Beldar	day	0.45	306.00	137.70
	TOTAL				855.56
	Add Water Charges @ 1%				8.56
	TOTAL				864.11 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				121.41
	TOTAL				985.52 (Y)
	Add CPOH @ 15% on "Y"				147.83
	Cost of each				1133.35
	Add 1% labour cess				11.33
	Rate	per m			1144.70
18.47.8	80 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
1648	G.I. Union 80 mm nominal bore	each	1	575.00	575.00
9999	Carriage of materials and sundries	L.S.	1.82	2.12	3.86
	LABOUR:				
116	Fitter (grade 1)	day	0.45	420.00	189.00
114	Beldar	day	0.45	306.00	137.70
	TOTAL				905.56
	Add Water Charges @ 1%				9.06
	TOTAL				914.61 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				128.50
	TOTAL				1043.12 (Y)
	Add CPOH @ 15% on "Y"				156.47
	Cost of each				1199.58
	Add 1% labour cess				12.00
	Rate	each			1211.60
18.48	Providing and placing on terrace (at all floor levels) 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.				
	Details of cost for 500 litres tank one no.				
	MATERIAL:				
1649	Polyethylene water storage tank with cover and per suitable locking arrangement	litre	500	6.10	3050.00
9999	Carriage to site	L.S.	179.4	2.12	380.33
9999	Placing at terrace	L.S.	89.7	2.12	190.16
	TOTAL				3620.49
	Add Water Charges @ 1%				36.20
	TOTAL				3656.70 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				513.77
	TOTAL				4170.46 (Y)
	Add CPOH @ 15% on "Y"				625.57
	Cost of 500 litres				4796.03
	Cost per litre				9.59
	Add 1% labour cess				0.10
	Rate	per litre			9.70








424




Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.48.A	Providing and fixing rectangular high density polyethylene water storage loft tank with cover, conforming to ISI : 12701, colour of opaque white or as approved by Engineer-in-charge. The rate includes making necessary holes for inlet, outlet & over flow pipes. The base support i/c fittings & fixtures for tank shall be paid separately.				
	Details of cost for one no. tank of 500 litres				
	MATERIAL				
1649	Polyethylene water storage tank with cover and suitable locking arrangement	per litre	500	6.10	3050.00
9977	Carriage to site	L.S.	179.4	2.12	380.33
9999	Placing at terrace	L.S.	89.7	2.12	190.16
	TOTAL				3620.49
	Add Water Charges @ 1%				36.20
	TOTAL				3656.70 (X)
	Add GST on "X" (multiplying factor 0.1405)				513.77
	TOTAL				4170.46 (Y)
	Add 15% CPOH on "Y"				625.57
	Cost of 500 liters				4796.03
	Cost per litre				9.59
	Add 1% labour cess				0.10
	Say	Rate	per litre		9.70
18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931.				
18.49.1	15 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
7257	C.P. Brass bibcock 15 mm	each	1	300.00	300.00
9999	Carriage of materials and fixing charges	L.S.	11.57	2.12	24.53
	TOTAL				324.53
	Add Water Charges @ 1%				3.25
	TOTAL				327.77 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				46.05
	TOTAL				373.83 (Y)
	Add CPOH @ 15% on "Y"				56.07
	Cost of each				429.90
	Add 1% labour cess				4.30
	Rate	each			434.20
18.50	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
18.50.1	15 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
7258	C.P. Brass long nose bibcock 15 mm	each	1	500.00	500.00
9999	Carriage of materials and fixing charges	L.S.	16.25	2.12	34.45
	TOTAL				534.45
	Add Water Charges @ 1%				5.34
	TOTAL				539.79 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				75.84
	TOTAL				615.64 (Y)
	Add CPOH @ 15% on "Y"				92.35
	Cost of each				707.98
	Add 1% labour cess				7.08
	Rate	each			715.10
18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
18.51.1	15 mm nominal bore.				
	Details of cost for one no.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL:				
7259	C.P. Brass long body bibcock 15 mm	each	1	500.00	500.00
9999	Carriage of materials and fixing charges	L.S.	13.91	2.12	29.49
	TOTAL				529.49
	Add Water Charges @ 1%				5.29
	TOTAL				534.78 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				75.14
	TOTAL				609.92 (Y)
	Add CPOH @ 15% on "Y"				91.49
	Cost of each				701.41
	Add 1% labour cess				7.01
	Rate	each			708.40
18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
18.52.1	15 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
7260	C.P. Brass stop cock (concealed) 15 mm	each	1	420.00	420.00
9999	Carriage of materials and fixing charges	L.S.	11.57	2.12	24.53
	TOTAL				444.53
	Add Water Charges @ 1%				4.45
	TOTAL				448.97 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				63.08
	TOTAL				512.05 (Y)
	Add CPOH @ 15% on "Y"				76.81
	Cost of each				588.86
	Add 1% labour cess				5.89
	Rate	per m			594.80
18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931.				
18.53.1	15 mm nominal bore.				
	Details of cost for one no.				
	MATERIAL:				
7261	C.P. Brass angle valve 15 mm	each	1	350.00	350.00
9999	Carriage and fixing changes	L.S.	11.31	2.12	23.98
	TOTAL				373.98
	Add Water Charges @ 1%				3.74
	TOTAL				377.72 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				53.07
	TOTAL				430.79 (Y)
	Add CPOH @ 15% on "Y"				64.62
	Cost of each				495.40
	Add 1% labour cess				4.95
	Say				500.40
18.53.A	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.				
	Details of cost for one no.				
	MATERIAL:				
0593	C.P. Brass Extension Nipple (1/2"x2" size)	each	1	40.00	40.00
9999	Sundries	L.S.	2.89	2.12	6.13
	TOTAL				46.13
	Add Water Charges @ 1%				0.46
	TOTAL				46.59 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				6.55
	TOTAL				53.13 (Y)














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15% CPOH on "Y"				7.97
	Cost of 1 no.				61.10
	Add 1% labour cess				0.61
	Rate	each			61.70
18.54	Providing and fixing PTMT bib cock of approved quality and colour.				
18.54.1	15 mm nominal bore, 86 mm long, weighing not less than 88 gms.				
	Details of cost for one no.				
	MATERIAL:				
7400	15 mm PTMT bib cock	each	1.00	65.00	65.00
9999	Carriage of materials and fixing charges	L.S.	8.06	2.12	17.09
	TOTAL				82.09
	Add Water Charges @ 1%				0.82
	TOTAL				82.91 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				11.65
	TOTAL				94.56 (Y)
	Add CPOH @ 15% on "Y"				14.18
	Cost of each				108.74
	Add 1% labour cess				1.09
	Rate	each			109.80
18.54.2	15 mm nominal bore, 122 mm long, weighing not less than 99 gms.				
	Details of cost for one no.				
	MATERIAL:				
7401	15 mm PTMT bib cock with flange (fancy)	each	1.00	90.00	90.00
9999	Carriage of materials and fixing charges	L.S.	8.06	2.12	17.09
	TOTAL				107.09
	Add Water Charges @ 1%				1.07
	TOTAL				108.16 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				15.20
	TOTAL				123.35 (Y)
	Add CPOH @ 15% on "Y"				18.50
	Cost of each				141.86
	Add 1% labour cess				1.42
	Rate	each			143.30
18.54.3	15 mm nominal bore, 165 mm long, weighing not less than 110 gms.				
	Details of cost for one no.				
	MATERIAL:				
7402	15 mm PTMT bib-cock long body with flange	each	1.00	100.00	100.00
9999	Carriage of materials and fixing charges	L.S.	8.06	2.12	17.09
	TOTAL				117.09
	Add Water Charges @ 1%				1.17
	TOTAL				118.26 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				16.62
	TOTAL				134.87 (Y)
	Add CPOH @ 15% on "Y"				20.23
	Cost of each				155.10
	Add 1% labour cess				1.55
	Rate	each			156.70
18.54.4	15 mm nominal bore, 90 mm long, weighing not less than 93 gms.				
	Details of cost for one no.				
	MATERIAL:				
7859	P.T.M.T. Bib cock with nozzle 15 mm	each	1.00	110.00	110.00
9999	Carriage of materials and fixing charges	L.S.	8.06	2.12	17.09
	TOTAL				127.09
	Add Water Charges @ 1%				1.27
	TOTAL				128.36 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				18.03
	TOTAL				146.39 (Y)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add CPOH @ 15% on "Y"				21.96
	Cost of each				168.35
	Add 1% labour cess				1.68
	Rate	each			170.00
18.55	Providing and fixing PTMT stop cock of approved quality and colour.				
18.55.1	15 mm nominal bore, 86 mm long, weighing not less than 88 gms.				
	Details of cost for one no.				
	MATERIAL:				
7403	15 mm dia PTMT stop cock(male thread)	each	1.00	60.00	60.00
9999	Carriage of materials and fixing charges	L.S.	8.06	2.12	17.09
	TOTAL				77.09
	Add Water Charges @ 1%				0.77
	TOTAL				77.86 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				10.94
	TOTAL				88.80 (Y)
	Add CPOH @ 15% on "Y"				13.32
	Cost of each				102.12
	Add 1% labour cess				1.02
	Rate	each			103.10
18.55.2	20 mm nominal bore, 89 mm long, weighing not less than 88 gms.				
	Details of cost for one no.				
	MATERIAL:				
7405	20 mm dia PTMT stop cock	each	1.00	68.00	68.00
9999	Carriage of materials and fixing charges	L.S.	8.06	2.12	17.09
	TOTAL				85.09
	Add Water Charges @ 1%				0.85
	TOTAL				85.94 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				12.07
	TOTAL				98.01 (Y)
	Add CPOH @ 15% on "Y"				14.70
	Cost of each				112.71
	Add 1% labour cess				1.13
	Rate	each			113.80
18.55.3	Concealed stop cock, 15 mm nominal bore, 108 mm long, weighing not less than 108 gms.				
	Details of cost for one no.				
	MATERIAL:				
7861	P.T.M.T. Stop cock (concealed) 15 mm	each	1.00	120.00	120.00
9999	Carriage of materials and fixing charges	L.S.	8.06	2.12	17.09
	TOTAL				137.09
	Add Water Charges @ 1%				1.37
	TOTAL				138.46 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				19.45
	TOTAL				157.91 (Y)
	Add CPOH @ 15% on "Y"				23.69
	Cost of each				181.60
	Add 1% labour cess				1.82
	Rate	each			183.40
18.56	Providing and fixing PTMT pillar cock of approved quality and colour.				
18.56.1	15 mm nominal bore, 107 mm long, weighing not less than 110 gms.				
	Details of cost for one no.				
	MATERIAL:				
7406	PTMT pillar cock	each	1.00	115.00	115.00
9999	Carriage of materials and fixing charges	L.S.	9.49	2.12	20.12
	TOTAL				135.12
	Add Water Charges @ 1%				1.35
	TOTAL				136.47 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				19.17














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				155.64 (Y)
	Add CPOH @ 15% on "Y"				23.35
	Cost of each				178.99
	Add 1% labour cess				1.79
	Rate	each			180.80
18.56.2	15 mm nominal bore, 125 mm long foam flow, weighing not less than 120 gms.				
	Details of cost for one no.				
	MATERIAL:				
7410	PTMT Pillar cock (fancy) 15 mm foam flow	each	1.00	125.00	125.00
9999	Carriage of materials and fixing charges	L.S.	9.49	2.12	20.12
	TOTAL				145.12
	Add Water Charges @ 1%				1.45
	TOTAL				146.57 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				20.59
	TOTAL				167.16 (Y)
	Add CPOH @ 15% on "Y"				25.07
	Cost of each				192.24
	Add 1% labour cess				1.92
	Rate	each			194.20
18.57	Providing and fixing PTMT, push cock of approved quality and colour.				
18.57.1	15 mm nominal bore, 98 mm long, weighing not less than 75 gms.				
	Details of cost for one no.				
	MATERIAL:				
7407	PTMT push cock 15 mm dia	each	1.00	55.00	55.00
9999	Carriage of materials and fixing charges	L.S.	8.06	2.12	17.09
	TOTAL				72.09
	Add Water Charges @ 1%				0.72
	TOTAL				72.81 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				10.23
	TOTAL				83.04 (Y)
	Add CPOH @ 15% on "Y"				12.46
	Cost of each				95.49
	Add 1% labour cess				0.95
	Rate	each			96.40
18.57.2	15 mm nominal bore, 80 mm long, weighing not less than 46 gms.				
	Details of cost for one no.				
	MATERIAL:				
7408	PTMT push cock 12 mm dia 20 mm BSP	each	1.00	45.00	45.00
9999	Carriage of materials and fixing charges	L.S.	8.06	2.12	17.09
	TOTAL				62.09
	Add Water Charges @ 1%				0.62
	TOTAL				62.71 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				8.81
	TOTAL				71.52 (Y)
	Add CPOH @ 15% on "Y"				10.73
	Cost of each				82.25
	Add 1% labour cess				0.82
	Rate	each			83.10
18.58	Providing and fixing PTMT grating of approved quality and colour.				
18.58.1	Circular type.				
18.58.1.1	100 mm nominal dia.				
	Details of cost for one no.				
	MATERIAL:				
7409	PTMT grating 100 mm dia	each	1.00	16.00	16.00
9999	Carriage of materials and fixing charges	L.S.	4.16	2.12	8.82
	TOTAL				24.82
	Add Water Charges @ 1%				0.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				25.07 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				3.52
	TOTAL				28.59 (Y)
	Add CPOH @ 15% on "Y"				4.29
	Cost of each				32.88
	Add 1% labour cess				0.33
	Rate	each			33.20
18.58.1.2	125 mm nominal dia with 25 mm waste hole.				
	Details of cost for one no.				
	MATERIAL:				
7411	125 mm grating with waste hole	each	1.00	25.00	25.00
9999	Carriage of materials and fixing charges	L.S.	4.16	2.12	8.82
	TOTAL				33.82
	Add Water Charges @ 1%				0.34
	TOTAL				34.16 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				4.80
	TOTAL				38.96 (Y)
	Add CPOH @ 15% on "Y"				5.84
	Cost of each				44.80
	Add 1% labour cess				0.45
	Rate	each			45.20
18.58.2	Rectangular type with openable circular lid.				
18.58.2.1	150 mm nominal size square 100 mm diameter of the inner hinged round grating.				
	Details of cost for one no.				
	MATERIAL:				
7412	Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)	each	1.00	118.00	118.00
9999	Carriage of materials and fixing charges	L.S.	4.16	2.12	8.82
	TOTAL				126.82
	Add Water Charges @ 1%				1.27
	TOTAL				128.09 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				18.00
	TOTAL				146.08 (Y)
	Add CPOH @ 15% on "Y"				21.91
	Cost of each				168.00
	Add 1% labour cess				1.68
	Rate	each			169.70
18.59	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).				
18.59.1	50 mm dia.				
	Details of cost for 10 nos. double acting air valves.				
	MATERIAL:				
7415	Double acting air valve 50 mm	each	10	3715.00	37150.00
9999	Carriage of air valves	L.S.	26	2.12	55.12
9999	Labour for laying of double acting air valve	L.S.	39	2.12	82.68
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc				
18.30.1	Rate as per Item Number 18.30.1 of SH: Water supply	each	10	131.0	1310.04 A
	TOTAL				38597.84
	Add Water Charges @ 1% except on A i.e on				372.88
	TOTAL				38970.71 (X)














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST 12% on "X" except A (multiplying factor 0.1405)				5291.33
	TOTAL				44262.04 (Y)
	Add CPOH @ 15% on "Y" except A				6442.80
	Cost of 10 nos				50704.84
	Cost of each				5070.48
	Add 1% labour cess				50.70
	Rate	each			5121.20
18.59.2	80 mm dia.				
	Details of cost for 10 nos. double acting air valves.				
	MATERIAL:				
7416	Double acting air valve 80 mm	each	10	4525.00	45250.00
9999	Carriage of air valves	L.S.	26	2.12	55.12
9999	Labour for laying of double acting air valve	L.S.	39	2.12	82.68
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc				
18.30.1	Rate as per Item Number 18.30.1 of each	10	1	131.0	131.00 A
	SH: Water supply				
	TOTAL				45518.80
	Add Water Charges @ 1% except on A i.e on				453.88
	TOTAL				45972.68 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				6440.76
	TOTAL				52413.44 (Y)
	Add CPOH @ 15% on "Y" except A				7842.37
	Cost of 10 nos				60255.80
	Cost of each				6025.58
	Add 1% labour cess				60.26
	Rate	each			6085.80
18.59.3	100 mm dia.				
	Details of cost for. 10 nos. double acting air valves.				
	MATERIAL:				
7417	Double acting air valve 100 mm	each	10.00	5910.00	59100.00
9999	Carriage of air valves	L.S.	26.00	2.12	55.12
9999	Labour for laying of double acting air valve	L.S.	52.00	2.12	110.24
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc				
18.30.2	Rate as per Item Number 18.30.2 of	each	10.00	213.55	2135.49 A
	SH: Water supply				
	TOTAL				61400.85
	Add Water Charges @ 1% except on A i.e on				592.65
	TOTAL				61993.51 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				8410.05
	TOTAL				70403.56 (Y)
	Add CPOH @ 15% on "Y" except A				10240.21
	Cost of 10 nos				80643.77
	Cost of each				8064.38
	Add 1% labour cess				80.64
	Rate	each			8145.00
18.60	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).				
18.60.1	80 mm dia nominal bore.				
	Details of cost for one no. water meter.				
	MATERIAL:				
7418	Water meter (including testing charges)	each	1	2030.00	2030.00
	80 mm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Testing charges	L.S.	130	2.12	275.60
9999	Carriage of water meter	L.S.	26	2.12	55.12
9999	Labour for laying water meter	L.S.	39	2.12	82.68
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc				
18.30.1	Rate as per Item Number 18.30.1 of SH: Water supply	each	2	131.0	262.01 A
	TOTAL				2705.41
	Add Water Charges @ 1% except on A i.e on				24.43
	TOTAL				2729.84 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				346.73
	TOTAL				3076.57 (Y)
	Add CPOH @ 15% on "Y" except A				422.18
	Cost of each				3498.76
	Add 1% labour cess				34.99
	Rate	each			3533.70
18.60.2	100 mm dia nominal bore.				
	Details of cost for one no. water meter.				
	MATERIAL:				
7419	Water meter (including testing charges) 100 mm	each	1	3143.00	3143.00
					0.00
9999	Testing charges	L.S.	130	2.12	275.60
9999	Carriage of water meter	L.S.	26	2.12	55.12
9999	Labour for laying water meter	L.S.	52	2.12	110.24
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc				
18.30.2	Rate as per Item Number 18.30.2 of SH: Water supply	each	2	213.5	427.10 A
	TOTAL				4011.06
	Add Water Charges @ 1% except on A i.e on				35.84
	TOTAL				4046.90 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				508.58
	TOTAL				4555.48 (Y)
	Add CPOH @ 15% on "Y" except A				619.26
	Cost of each				5174.74
	Add 1% labour cess				51.75
	Rate	each			5226.50
18.60.3	150 mm dia nominal bore.				
	Details of cost for one no. water meter.				
	MATERIAL:				
7420	Water meter (including testing charges) 150 mm	each	1	4765.00	4765.00
					0.00
9999	Testing charges	L.S.	156	2.12	330.72
9999	Carriage of water meter	L.S.	39	2.12	82.68
9999	Labour for laying water meter	L.S.	65	2.12	137.80
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc				
18.30.4	Rate as per Item Number 18.30.4 of SH: Water supply	each	2	262.6	525.14 A
	TOTAL				5841.34
	Add Water Charges @ 1% except on A i.e on				53.16
	TOTAL				5894.50 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				754.40
	TOTAL				6648.90 (Y)
	Add CPOH @ 15% on "Y" except A				918.56
	Cost of each				7567.46
	Add 1% labour cess				75.67
	Rate	each			7643.10







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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.60.4	200 mm dia nominal bore. Details of cost for one no. water meter. MATERIAL:				
7421	Water meter (including testing charges) 200 mm	each	1	5145.00	5145.00
9999	Testing charges	L.S.	156	2.12	330.72
9999	Carriage of water meter	L.S.	52	2.12	110.24
9999	Labour for laying water meter	L.S.	104	2.12	220.48
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc				
18.30.5	Rate as per Item Number 18.30.5 of SH: Water supply	each	2	295.7	591.37 A
	TOTAL				6397.81
	Add Water Charges @ 1% except on A i.e on				58.06
	TOTAL				6455.88 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				823.96
	TOTAL				7279.84 (Y)
	Add CPOH @ 15% on "Y" except A				1003.27
	Cost of each				8283.11
	Add 1% labour cess				82.83
	Rate	each			8365.90
18.61	Providing and fixing C.I. dirt box strainer for bulk type water meter with nuts, bolts, rubber insertions etc. complete conforming to IS: 2373.				
18.61.1	80 mm dia. Details of cost for one no. dirt box strainer. MATERIAL:				
7422	Dirt box strainer 80 mm	each	1	2680.00	2680.00
9999	Carriage of dirt box strainer	L.S.	26	2.12	55.12
9999	Labour for laying dirt box stainer	L.S.	39	2.12	82.68
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc				
18.30.1	Rate as per Item Number 18.30.1 of SH: Water supply	each	2	131.0	262.01 A
	TOTAL				3079.81
	Add Water Charges @ 1% except on A i.e on				28.18
	TOTAL				3107.99 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				399.86
	TOTAL				3507.85 (Y)
	Add CPOH @ 15% on "Y" except A				486.88
	Cost of each				3994.72
	Add 1% labour cess				39.95
	Rate	each			4034.70
18.61.2	100 mm dia. Details of cost for one no. dirt box strainer. MATERIAL:				
7423	Dirt box strainer 100 mm	each	1	4370.00	4370.00
9999	Carriage of dirt box strainer	L.S.	26	2.12	55.12
9999	Labour for laying dirt box stainer	L.S.	52	2.12	110.24
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc				
18.30.2	Rate as per Item Number 18.30.2 of SH: Water supply	each	2	213.5	427.10 A
	TOTAL				4962.46
	Add Water Charges @ 1% except on A i.e on				45.35
	TOTAL				5007.81 (X)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST 12% on "X" except A (multiplying factor 0.1405)				643.59
	TOTAL				5651.40 (Y)
	Add CPOH @ 15% on "Y" except A				783.65
	Cost of each				6435.05
	Add 1% labour cess				64.35
	Rate	each			6499.40
18.61.3	150 mm dia.				
	Details of cost for one no. dirt box strainer.				
	MATERIAL:				
7424	Dirt box strainer 150 mm	each	1	5540.00	5540.00
9999	Carriage of dirt box strainer	L.S.	39	2.12	82.68
9999	Labour for laying dirt box stainer	L.S.	65	2.12	137.80
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc				
18.30.4	Rate as per Item Number 18.30.4 of	each	2	262.6	525.14 A
	SH: Water supply				
	TOTAL				6285.62
	Add Water Charges @ 1% except on A i.e on				57.60
	TOTAL				6343.22 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				817.44
	TOTAL				7160.66 (Y)
	Add CPOH @ 15% on "Y" except A				995.33
	Cost of each				8155.99
	Add 1% labour cess				81.56
	Rate	each			8237.60
18.61.4	200 mm dia.				
	Details of cost for one no. dirt box strainer.				
	MATERIAL:				
7425	Dirt box strainer 200 mm	each	1	7860.00	7860.00
9999	Carriage of dirt box strainer	L.S.	52	2.12	110.24
9999	Labour for laying dirt box stainer	L.S.	104	2.12	220.48
	Providing flanged joints to double acting air valves with bolts, nuts and rubber insertions etc				
18.30.5	Rate as per Item Number 18.30.5 of	each	2	295.7	591.37 A
	SH: Water supply				
	TOTAL				8782.09
	Add Water Charges @ 1% except on A i.e on				81.91
	TOTAL				8864.00 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				1162.30
	TOTAL				10026.30 (Y)
	Add CPOH @ 15% on "Y" except A				1415.24
	Cost of each				11441.54
	Add 1% labour cess				114.42
	Rate	each			11556.00
18.62	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.				
18.62.1	15 mm nominal bore, 105 mm long, weighing not less than 138 gms.				
	Details of cost for one no.				
	MATERIAL:				
7495	PTMT Ball Cock 15mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	1	75.00	75.00
9999	Carriage of materials and fixing charges	L.S.	21.58	2.12	45.75
	TOTAL				120.75
	Add Water Charges @ 1%				1.21
	TOTAL				121.96 (X)














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST 12% on "X" (multiplying factor 0.1405)				17.13
	TOTAL				139.09 (Y)
	Add CPOH @ 15% on "Y"				20.86
	Cost of each				159.96
	Add 1% labour cess				1.60
	Rate	each			161.60
18.62.2	20 mm nominal bore, 120 mm long, weighing not less than 198 gms.				
	Details of cost for one no.				
	MATERIAL:				
7496	PTMT Ball Cock 20mm complete with Epoxy	each	1.00	110.00	110.00
	Coated Aluminium Rod & H.D. Ball				
9999	Carriage of materials and fixing charges	L.S.	26.91	2.12	57.05
	TOTAL				167.05
	Add Water Charges @ 1%				1.67
	TOTAL				168.72 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				23.71
	TOTAL				192.42 (Y)
	Add CPOH @ 15% on "Y"				28.86
	Cost of each				221.29
	Add 1% labour cess				2.21
	Rate	each			223.50
18.62.3	25 mm nominal bore, 152 mm long, weighing not less than 440 gms.				
	Details of cost for one no.				
	MATERIAL:				
7497	PTMT Ball Cock 25mm complete with Epoxy	each	1	275.00	275.00
	Coated Aluminium Rod & H.D. Ball				
9999	Carriage of materials and fixing charges	L.S.	32.24	2.12	68.35
	TOTAL				343.35
	Add Water Charges @ 1%				3.43
	TOTAL				346.78 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				48.72
	TOTAL				395.51 (Y)
	Add CPOH @ 15% on "Y"				59.33
	Cost of each				454.83
	Add 1% labour cess				4.55
	Rate	each			459.40
18.62.4	40 mm nominal bore, 206 mm long, weighing not less than 690 gms.				
	Details of cost for one no.				
	MATERIAL:				
7498	PTMT Ball Cock 40mm complete with Epoxy	each	1	420.00	420.00
	Coated Aluminium Rod & H.D. Ball				
9999	Carriage of materials and fixing charges	L.S.	32.24	2.12	68.35
	TOTAL				488.35
	Add Water Charges @ 1%				4.88
	TOTAL				493.23 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				69.30
	TOTAL				562.53 (Y)
	Add CPOH @ 15% on "Y"				84.38
	Cost of each				646.91
	Add 1% labour cess				6.47
	Rate	each			653.40
18.62.5	50 mm nominal bore, 242 mm long, weighing not less than 1240 gms				
	Details of cost for one no.				
	MATERIAL:				
7499	PTMT Ball Cock 50mm complete with Epoxy	each	1	820.00	820.00
	Coated Aluminium Rod & H.D. Ball				
9999	Carriage of materials and fixing charges	L.S.	32.24	2.12	68.35

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				888.35
	Add Water Charges @ 1%				8.88
	TOTAL				897.23 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				126.06
	TOTAL				1023.29 (Y)
	Add CPOH @ 15% on "Y"				153.49
	Cost of each				1176.79
	Add 1% labour cess				11.77
	Rate	each			1188.60
18.63	Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms.				
	Details of cost for one no.				
	MATERIAL:				
7500	PTMT Angle Stop cock with Flange 15 mm	each	1	85.00	85.00
9999	Carriage of materials and fixing charges	L.S.	8.06	2.12	17.09
	TOTAL				102.09
	Add Water Charges @ 1%				1.02
	TOTAL				103.11 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				14.49
	TOTAL				117.59 (Y)
	Add CPOH @ 15% on "Y"				17.64
	Cost of each				135.23
	Add 1% labour cess				1.35
	Rate	each			136.60
18.64	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40 gms.				
	Details of cost for one no.				
	MATERIAL:				
7501	PTMT Swiveling shower 15 mm	each	1	65.00	65.00
9999	Carriage of materials and fixing charges	L.S.	6.76	2.12	14.33
	TOTAL				79.33
	Add Water Charges @ 1%				0.79
	TOTAL				80.12 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				11.26
	TOTAL				91.38 (Y)
	Add CPOH @ 15% on "Y"				13.71
	Cost of each				105.09
	Add 1% labour cess				1.05
	Rate	each			106.10
18.65	Providing and fixing PTMT Soap Dish Holder having length of 138 mm, breadth 102 mm, height of 75 mm with concealed fitting arrangements, weighing not less than 106 gms.				
	Details of cost for one no.				
	MATERIAL:				
7509	PTMT Soap Dish/Holder 138x102x75 mm	each	1	58.00	58.00
9999	Carriage of materials and fixing charges	L.S.	6.76	2.12	14.33
	TOTAL				72.33
	Add Water Charges @ 1%				0.72
	TOTAL				73.05 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				10.26
	TOTAL				83.32 (Y)
	Add CPOH @ 15% on "Y"				12.50
	Cost of each				95.82
	Add 1% labour cess				0.96
	Rate	each			96.80







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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.66	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.				
18.66.1	Upto 300 mm dia.				
	Details of cost for 1 quintal.				
	MATERIAL:				
7708	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing up to 300 mm dia	quintal	1.00	5190.00	5190.00
2309	Carriage of Cast Iron fittings	tonne	0.10	145.72	14.57
	Labour for laying				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	1.00	377.16	377.16 A
	TOTAL				5581.73
	Add Water Charges @ 1% except on A i.e on				52.05
	TOTAL				5633.77 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				738.55
	TOTAL				6372.33 (Y)
	Add CPOH @ 15% on "Y" except A				899.28
	Cost of 1 quintal				7271.60
	Add 1% labour cess				72.72
	Rate	per quintal			7344.30
18.66.2	Above 300 mm dia.				
	Details of cost for 1 quintal.				
	MATERIAL:				
7709	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing over 300 mm dia	quintal	1.00	6200.00	6200.00
2309	Carriage of Cast Iron fittings	tonne	0.10	145.72	14.57
	Labour for laying				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	1.00	377.16	377.16 A
	TOTAL				6591.73
	Add Water Charges @ 1% except on A i.e on				62.15
	TOTAL				6653.87 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				881.88
	TOTAL				7535.75 (Y)
	Add CPOH @ 15% on "Y" except A				1073.79
	Cost of 1 quintal				8609.54
	Add 1% labour cess				86.10
	Rate	each			8695.60
18.67	Providing and laying S&S C.I. Standard specials suitable for mechanical jointing as per IS : 13382.				
18.67.1	Upto 300 mm dia .				
	Details of cost for 1 quintal.				
	MATERIAL:				
7710	S&S Centrifugally (Spun) C.I. Pipe specials suitable for mechanical joint as per I.S. 13382 up to 300 mm dia	quintal	1	8571.00	8571.00
2309	Carriage of Cast Iron fittings	tonne	0.1	145.72	14.57
	Labour for laying				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	1	377.16	377.16 A
	TOTAL				8962.73
	Add Water Charges @ 1% except on A i.e on				85.86
	TOTAL				9048.58 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				1218.34
	TOTAL				10266.92 (Y)
	Add CPOH @ 15% on "Y" except A				1483.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 quintal				11750.38
	Add 1% labour cess				117.50
	Rate	Per quintal			11867.90
18.67.2	Above 300 mm dia.				
	Details of cost for 1 quintal.				
	MATERIAL:				
7711	S&S Centrifugally (Spun) C.I. Pipe Specials suitable for mechanical joint as per I.S. 13382 over 300 mm dia	quintal	1	9048.00	9048.00
2309	Carriage of Cast Iron fittings	tonne	0.1	145.72	14.57
	Labour for laying				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	1	377.16	377.16 A
	TOTAL				9439.73
	Add Water Charges @ 1% except on A i.e on TOTAL				90.63
	TOTAL				9530.35 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				1286.02
	TOTAL				10816.38 (Y)
	Add CPOH @ 15% on "Y" except A				1565.88
	Cost of 1 quintal				12382.26
	Add 1% labour cess				123.82
	Rate	Per quintal			12506.10
18.68	Providing and laying D.I. specials of class K-12 suitable for push-on jointing as per IS : 9523.				
18.68.1	Upto 600 mm dia.				
	Details of cost for 1 quintal.				
	MATERIAL:				
7682	Ductile Iron K - 12 specials suitable for push on jointing up to 600 mm dia	quintal	1	12400.00	12400.00
2309	Carriage of Cast Iron fittings	tonne	0.1	145.72	14.57
	Labour for laying				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	1	377.16	377.16 A
	TOTAL				12791.73
	Add Water Charges @ 1% except on A i.e on TOTAL				124.15
	TOTAL				12915.87 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				1761.69
	TOTAL				14677.56 (Y)
	Add CPOH @ 15% on "Y" except A				2145.06
	Cost of 1 quintal				16822.62
	Add 1% labour cess				168.23
	Rate	each			16990.90
18.68.2	Above 600 mm dia.				
	Details of cost for 1 quintal.				
	MATERIAL:				
7683	Ductile Iron K - 12 specials suitable for push on jointing over 600 mm dia	quintal	1	17200.00	17200.00
2309	Carriage of Cast Iron fittings	tonne	0.1	145.72	14.57
	Labour for laying				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	1	377.16	377.16 A
	TOTAL				17591.73
	Add Water Charges @ 1% except on A i.e on TOTAL				172.15
	TOTAL				17763.87 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				2442.83
	TOTAL				20206.71 (Y)
	Add CPOH @ 15% on "Y" except A				2974.43














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 quintal				23181.14
	Add 1% labour cess				231.81
	Rate	each			23413.00
18.69	Providing and laying D.I. Specials of Class K - 12 suitable for mechanical jointing as per IS : 9523.				
18.69.1	Upto 600 mm dia.				
	Details of cost for 1 quintal.				
	MATERIAL:				
7684	Ductile Iron specials suitable for mechanical jointing as per I.S. 9523 - up to 600 mm dia	quintal	1	13050.00	13050.00
2309	Carriage of Cast Iron fittings	tonne	0.1	145.72	14.57
	Labour for laying				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	1	377.16	377.16 A
	TOTAL				13441.73
	Add Water Charges @ 1% except on A i.e on				130.65
	TOTAL				13572.37 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				1853.93
	TOTAL				15426.30 (Y)
	Add CPOH @ 15% on "Y" except A				2257.37
	Cost of 1 quintal				17683.67
	Add 1% labour cess				176.84
	Rate	each			17860.50
18.69.2	Above 600 mm dia.				
	Details of cost for 1 quintal.				
	MATERIAL:				
7685	Ductile Iron Specials suitable for mechanical jointing as per I.S. 9523 over 600 mm dia	quintal	1	18750.00	18750.00
2309	Carriage of Cast Iron fittings	tonne	0.1	145.72	14.57
	Labour for laying				
18.24	Rate as per Item Number 18.24 of SH: Water supply	quintal	1	377.16	377.16 A
	TOTAL				19141.73
	Add Water Charges @ 1% except on A i.e on				187.65
	TOTAL				19329.37 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				2662.79
	TOTAL				21992.16 (Y)
	Add CPOH @ 15% on "Y" except A				3242.25
	Cost of 1 quintal				25234.41
	Add 1% labour cess				252.34
	Rate	each			25486.80
18.70	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.				
18.70.1	100 mm dia pipes.				
	Details of cost for 50 joints.				
	MATERIAL:				
7666	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 100 mm dia	each	50	29.00	1450.00
	LABOUR:				
116	Fitter (grade 1)	day	1	420.00	420.00
117	Assistant Fitter or 2nd class Fitter	day	1	369.00	369.00
114	Beldar	day	1	306.00	306.00
	TOTAL				2545.00
	Add Water Charges @ 1%				25.45
	TOTAL				2570.45 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				361.15
	TOTAL				2931.60 (Y)
	Add CPOH @ 15% on "Y"				439.74

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 50 joint				3371.34
	Cost of 1 joint				67.43
	Add 1% labour cess				0.67
	Rate	per joint			68.10
18.70.2	150 mm dia pipes.				
	Details of cost for 50 joints.				
	MATERIAL:				
7668	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 150 mm dia	each	50	33.00	1650.00
	LABOUR:				
116	Fitter (grade 1)	day	1.5	420.00	630.00
117	Assistant Fitter or 2nd class Fitter	day	1.5	369.00	553.50
114	Beldar	day	3	306.00	918.00
	TOTAL				3751.50
	Add Water Charges @ 1%				37.52
	TOTAL				3789.02 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				532.36
	TOTAL				4321.37 (Y)
	Add CPOH @ 15% on "Y"				648.21
	Cost of 50 joint				4969.58
	Cost of 1 joint				99.39
	Add 1% labour cess				0.99
	Rate	per joint			100.40
18.70.3	200 mm dia pipes.				
	Details of cost for 50 joints.				
	MATERIAL:				
7669	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 200 mm dia	each	50	60.00	3000.00
	LABOUR:				
116	Fitter (grade 1)	day	2	420.00	840.00
117	Assistant Fitter or 2nd class Fitter	day	2	369.00	738.00
114	Beldar	day	4	306.00	1224.00
	TOTAL				5802.00
	Add Water Charges @ 1%				58.02
	TOTAL				5860.02 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				823.33
	TOTAL				6683.35 (Y)
	Add CPOH @ 15% on "Y"				1002.50
	Cost of 50 joint				7685.86
	Cost of 1 joint				153.72
	Add 1% labour cess				1.54
	Rate	per joint			155.30
18.70.4	250 mm dia pipes.				
	Details of cost for 50 joints.				
	MATERIAL:				
7670	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 250 mm dia	each	50	70.00	3500.00
	LABOUR:				
116	Fitter (grade 1)	day	2.5	420.00	1050.00
117	Assistant Fitter or 2nd class Fitter	day	2.5	369.00	922.50
114	Beldar	day	5	306.00	1530.00
	TOTAL				7002.50
	Add Water Charges @ 1%				70.03
	TOTAL				7072.53 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				993.69
	TOTAL				8066.21 (Y)
	Add CPOH @ 15% on "Y"				1209.93














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 50 joint				9276.15
	Cost of 1 joint				185.52
	Add 1% labour cess				1.86
	Rate	per joint			187.40
18.70.5	300 mm dia pipe.				
	Details of cost for 50 joints.				
	MATERIAL:				
7671	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 300 mm dia	each	50	100.00	5000.00
	LABOUR:				
116	Fitter (grade 1)	day	3	420.00	1260.00
117	Assistant Fitter or 2nd class Fitter	day	3	369.00	1107.00
114	Beldar	day	6	306.00	1836.00
	TOTAL				9203.00
	Add Water Charges @ 1%				92.03
	TOTAL				9295.03 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				1305.95
	TOTAL				10600.98 (Y)
	Add CPOH @ 15% on "Y"				1590.15
	Cost of 50 joint				12191.13
	Cost of 1 joint				243.82
	Add 1% labour cess				2.44
	Rate	per joint			246.30
18.70.6	350 mm dia pipes.				
	Details of cost for 50 joints.				
	MATERIAL:				
7672	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 350 mm dia	each	50	116.00	5800.00
	LABOUR:				
116	Fitter (grade 1)	day	3	420.00	1260.00
117	Assistant Fitter or 2nd class Fitter	day	3	369.00	1107.00
114	Beldar	day	6	306.00	1836.00
	TOTAL				10003.00
	Add Water Charges @ 1%				100.03
	TOTAL				10103.03 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				1419.48
	TOTAL				11522.51 (Y)
	Add CPOH @ 15% on "Y"				1728.38
	Cost of 50 joint				13250.88
	Cost of 1 joint				265.02
	Add 1% labour cess				2.65
	Rate	per joint			267.70
18.70.7	400 mm dia pipes.				
	Details of cost for 50 joints.				
	MATERIAL:				
7673	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 400 mm dia	each	50	210.00	10500.00
	LABOUR:				
116	Fitter (grade 1)	day	4	420.00	1680.00
117	Assistant Fitter or 2nd class Fitter	day	4	369.00	1476.00
114	Beldar	day	8	306.00	2448.00
	TOTAL				16104.00
	Add Water Charges @ 1%				161.04
	TOTAL				16265.04 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				2285.24
	TOTAL				18550.28 (Y)
	Add CPOH @ 15% on "Y"				2782.54

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 50 joint				21332.82
	Cost of 1 joint				426.66
	Add 1% labour cess				4.27
	Rate	per joint			430.90
18.70.8	450 mm dia pipes.				
	Details of cost for 50 joints.				
	MATERIAL:				
7674	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 450 mm dia	each	50	250.00	12500.00
	LABOUR:				
116	Fitter (grade 1)	day	4.5	420.00	1890.00
117	Assistant Fitter or 2nd class Fitter	day	4.5	369.00	1660.50
114	Beldar	day	9	306.00	2754.00
	TOTAL				18804.50
	Add Water Charges @ 1%				188.05
	TOTAL				18992.55 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				2668.45
	TOTAL				21661.00 (Y)
	Add CPOH @ 15% on "Y"				3249.15
	Cost of 50 joint				24910.15
	Cost of 1 joint				498.20
	Add 1% labour cess				4.98
	Rate	per joint			503.20
18.70.9	500 mm dia pipes.				
	Details of cost for 50 joints.				
	MATERIAL:				
7675	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 500 mm dia	each	50	270.00	13500.00
	LABOUR:				
116	Fitter (grade 1)	day	4.75	420.00	1995.00
117	Assistant Fitter or 2nd class Fitter	day	4.75	369.00	1752.75
114	Beldar	day	9.5	306.00	2907.00
	TOTAL				20154.75
	Add Water Charges @ 1%				201.55
	TOTAL				20356.30 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				2860.06
	TOTAL				23216.36 (Y)
	Add CPOH @ 15% on "Y"				3482.45
	Cost of 50 joint				26698.81
	Cost of 1 joint				533.98
	Add 1% labour cess				5.34
	Rate	per joint			539.30
18.70.10	600 mm dia pipes.				
	Details of cost for 50 joints.				
	MATERIAL:				
7676	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 600 mm dia	each	50	356.00	17800.00
	LABOUR:				
116	Fitter (grade 1)	day	6.5	420.00	2730.00
117	Assistant Fitter or 2nd class Fitter	day	6.5	369.00	2398.50
114	Beldar	day	13	306.00	3978.00
	TOTAL				26906.50
	Add Water Charges @ 1%				269.07
	TOTAL				27175.57 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				3818.17
	TOTAL				30993.73 (Y)
	Add CPOH @ 15% on "Y"				4649.06














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 50 joint				35642.79
	Cost of 1 joint				712.86
	Add 1% labour cess				7.13
	Rate	per joint			720.00
18.70.11	700 mm dia pipes.				
	Details of cost for 50 joints.				
	MATERIAL:				
7677	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 700 mm dia	each	50	510.00	25500.00
	LABOUR:				
116	Fitter (grade 1)	day	7.7	420.00	3234.00
117	Assistant Fitter or 2nd class Fitter	day	7.7	369.00	2841.30
114	Beldar	day	15.4	306.00	4712.40
	TOTAL				36287.70
	Add Water Charges @ 1%				362.88
	TOTAL				36650.58 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				5149.41
	TOTAL				41799.98 (Y)
	Add CPOH @ 15% on "Y"				6270.00
	Cost of 50 joint				48069.98
	Cost of 1 joint				961.40
	Add 1% labour cess				9.61
	Rate	per joint			971.00
18.70.12	750 mm dia pipes.				
	Details of cost for 50 joints.				
	MATERIAL:				
7678	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 750 mm dia	each	50	600.00	30000.00
	LABOUR:				
116	Fitter (grade 1)	day	7.7	420.00	3234.00
117	Assistant Fitter or 2nd class Fitter	day	7.7	369.00	2841.30
114	Beldar	day	15.4	306.00	4712.40
	TOTAL				40787.70
	Add Water Charges @ 1%				407.88
	TOTAL				41195.58 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				5787.98
	TOTAL				46983.56 (Y)
	Add CPOH @ 15% on "Y"				7047.53
	Cost of 50 joint				54031.09
	Cost of 1 joint				1080.62
	Add 1% labour cess				10.81
	Rate	per joint			1091.40
18.70.13	800 mm di a pipes.				
	Details of cost for 50 joints.				
	MATERIAL:				
7679	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 800 mm dia	each	50	705.00	35250.00
	LABOUR:				
116	Fitter (grade 1)	day	8.5	420.00	3570.00
117	Assistant Fitter or 2nd class Fitter	day	8.5	369.00	3136.50
114	Beldar	day	17	306.00	5202.00
	TOTAL				47158.50
	Add Water Charges @ 1%				471.59
	TOTAL				47630.09 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				6692.03
	TOTAL				54322.11 (Y)
	Add CPOH @ 15% on "Y"				8148.32

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 50 joint				62470.43
	Cost of 1 joint				1249.41
	Add 1% labour cess				12.49
	Rate	per joint			1261.90
18.70.14	900 mm dia pipes.				
	Details of cost for 50 joints.				
	MATERIAL:				
7680	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 900 mm dia	each	50	910.00	45500.00
	LABOUR:				
116	Fitter (grade 1)	day	10	420.00	4200.00
117	Assistant Fitter or 2nd class Fitter	day	10	369.00	3690.00
114	Beldar	day	20	306.00	6120.00
	TOTAL				59510.00
	Add Water Charges @ 1%				595.10
	TOTAL				60105.10 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				8444.77
	TOTAL				68549.87 (Y)
	Add CPOH @ 15% on "Y"				10282.48
	Cost of 50 joint				78832.35
	Cost of 1 joint				1576.65
	Add 1% labour cess				15.77
	Rate	per joint			1592.40
18.70.15	1000 mm dia pipes.				
	Details of cost for 50 joints.				
	MATERIAL:				
7681	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 1000 mm dia	each	50	1080.00	54000.00
	LABOUR:				
116	Fitter (grade 1)	day	11	420.00	4620.00
117	Assistant Fitter or 2nd class Fitter	day	11	369.00	4059.00
114	Beldar	day	22	306.00	6732.00
	TOTAL				69411.00
	Add Water Charges @ 1%				694.11
	TOTAL				70105.11 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				9849.77
	TOTAL				79954.88 (Y)
	Add CPOH @ 15% on "Y"				11993.23
	Cost of 50 joint				91948.11
	Cost of 1 joint				1838.96
	Add 1% labour cess				18.39
	Rate	per joint			1857.40
18.71	Providing and laying Double Flanged (screwed / welded) Centrifugally (Spun)Cast Iron, Class B (IS : 1536).				
18.71.1	100 mm dia C.I. Double Flanged Pipe.				
	Details of cost for 5 metre.				
	MATERIAL:				
	100 mm dia. cast iron pipes double flanged weight of 1m pipe = 27.00 kg				
	Weight of 5 m pipes 27.00x5 = 135.00 kg				
7712	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 100 mm dia	metre	5.00	1310.00	6550.00
2319	Carriage of Spun iron S & S pipes 100 mm dia Labour for laying	100 metre	5.00	358.32	17.92
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	1.35	148.26	200.16 A














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				6768.07
	Add Water Charges @ 1% except on A i.e on				65.68
	TOTAL				6833.75 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				932.02
	TOTAL				7765.77 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				1134.84
	Cost of 5 metre				8900.61
	Cost of 1 metre				1780.12
	Add 1% labour cess				17.80
	Rate	per metre			1797.90
18.71.2	150 mm dia C.I. Double Flanged Pipe.				
	Details of cost for 5 metre.				
	MATERIAL:				
	150 mm dia. cast iron pipes double flanged				
	weight of 1m pipe = 44.10 kg				
	Weight of 5 m pipes 44.10x5 = 220.50 kg				
7713	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 150 mm dia	metre	5	2048.00	10240.00
2321	Carriage of Spun iron S & S pipes 150 mm dia Labour for laying	100 metre	5	597.20	29.86
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	2.21	148.26	327.66 A
	TOTAL				10597.52
	Add Water Charges @ 1% except on A i.e on				102.70
	TOTAL				10700.22 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				1457.34
	TOTAL				12157.57 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				1774.49
	Cost of 5 metre				13932.05
	Cost of 1 metre				2786.41
	Add 1% labour cess				27.86
	Rate	per metre			2814.30
18.71.3	200 mm dia C.I. Double Flanged Pipe.				
	Details of cost for 5 metre.				
	MATERIAL:				
	200 mm dia. cast iron pipes double flanged				
	weight of 1m pipe = 63.50 kg				
	Weight of 5 m pipes 63.50 0x5 = 317.50 kg				
7714	Screwed double flanged centrifugally cast spun) C.I. Pipe of Class B conforming to I.S. 1536, - 200 mm dia	metre	5	3238.00	16190.00
2322	Carriage of Spun iron S & S pipes 200 mm dia Labour for laying	100 metre	5	971.45	48.57
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	3.18	148.26	471.48 A
	TOTAL				16710.05
	Add Water Charges @ 1% except on A i.e on				162.39
	TOTAL				16872.44 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				2304.33
	TOTAL				19176.77 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				2805.79
	Cost of 5 metre				21982.56
	Cost of 1 metre				4396.51
	Add 1% labour cess				43.97
	Rate	per metre			4440.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.71.4	250 mm dia C.I. Double Flanged Pipe. Details of cost for 5 metre. MATERIAL: 250 mm dia. cast iron pipes double flanged weight of 1m pipe= 85.30 kg Weight of 5 m pipes 85.30 x5 = 426.50 kg				
7715	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 250 mm dia	metre	5	3905.00	19525.00
2323 C	Carriage of Spun iron S & S pipes 250 mm dia	100 metre	5	1380.48	69.02
18.23	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	4.27	148.26	633.08 A
	TOTAL				20227.11
	Add Water Charges @ 1% except on A i.e on TOTAL				195.94
	TOTAL				20423.05 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				2780.49
	TOTAL				23203.54 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 5 metre				3385.57
	Cost of 5 metre				26589.11
	Cost of 1 metre				5317.82
	Add 1% labour cess				53.18
	Rate	per metre			5371.00
18.71.5	300 mm dia C.I. Double Flanged Pipe. Details of cost for 5 metre. MATERIAL: 300 mm dia. cast iron pipes double flanged weight of 1m pipe= 110.00 kg Weight of 5 m pipes 110.00x5 = 550.00 kg				
7716	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 300 mm dia	metre	5	4990.00	24950.00
2324	Carriage of Spun iron S & S pipes 300 mm. dia 100 Labour for laying	100metre	5	1706.30	85.32
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	5.5	148.26	815.45 A
	TOTAL				25850.76
	Add Water Charges @ 1% except on A i.e on TOTAL				250.35
	TOTAL				26101.12 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				3552.64
	TOTAL				29653.75 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 5 metre				4325.75
	Cost of 5 metre				33979.50
	Cost of 1 metre				6795.90
	Add 1% labour cess				67.96
	Rate	per metre			6863.90
18.71.6	350 mm dia C.I. Double Flanged Pipe. Details of cost for 5 metre. MATERIAL: 350 mm dia. cast iron pipes double flanged weight of 1m pipe = 135.70 kg Weight of 5 m pipes 135.70x5 = 678.50 kg				
7717	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 350 mm dia	metre	5	6286.00	31430.00
2325	Carriage of Spun iron S & S pipes 350 mm dia Labour for laying	100 metre	5	2388.82	119.44














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	6.79	148.26	1006.71 A
	TOTAL				32556.15
	Add Water Charges @ 1% except on A i.e on TOTAL				315.49
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				32871.64 (X)
	TOTAL				4477.02
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 5 metre				37348.67 (Y)
	Cost of 1 metre				5451.29
	Add 1% labour cess				42799.96
	Rate	per metre			8559.99
					85.60
					8645.60
18.71.7	400 mm dia C.I. Double Flanged Pipe. Details of cost for 5 metre. MATERIAL: 400 mm dia. cast iron pipes double flanged weight of 1m pipe = 166.80kg Weight of 5 m pipes 166.80x5 = 834.00 kg				
7718	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 400 mm dia	metre	5	8143.00	40715.00
2326	Carriage of Spun iron S & S pipes 400 mm dia Labour for laying	100 metre	5	3257.48	162.87
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	8.34	148.26	1236.52 A
	TOTAL				42114.39
	Add Water Charges @ 1% except on A i.e on TOTAL				408.78
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				42523.17 (X)
	TOTAL				5800.77
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 5 metre				48323.94 (Y)
	Cost of 1 metre				7063.11
	Add 1% labour cess				55387.06
	Rate	per metre			11077.41
					110.77
					11188.20
18.71.8	450 mm dia C.I. Double Flanged Pipe. Details of cost for 5 metre. MATERIAL: 450 mm dia. cast iron pipes double flanged weight of 1m pipe= 201.600 kg Weight of 5 m pipes 201.600x5 = 1008.00 kg				
7719	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 450 mm dia	metre	5	10381.00	51905.00
2327	Carriage of Spun iron S & S pipes 450 mm dia Labour for laying	100 metre	5	3981.36	199.07
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	10.08	148.26	1494.50 A
	TOTAL				53598.56
	Add Water Charges @ 1% except on A i.e on TOTAL				521.04
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				54119.60 (X)
	TOTAL				7393.83
	Add CPOH @ 15% on "Y" except on A i.e on				61513.43 (Y)
					9002.84

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 5 metre				70516.27
	Cost of 1 metre				14103.25
	Add 1% labour cess				141.03
	Rate	per metre			14244.30
18.71.9	500 mm dia C.I. Double Flanged Pipe.				
	Details of cost for 5 metre.				
	MATERIAL:				
	500 mm dia. cast iron pipes double flanged				
	weight of 1m pipe= 234.80 kg				
	Weight of 5 m pipes 234.80x5 = 1174.00 kg				
7720	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 500 mm dia	metre	5	12914.00	64570.00
2328	Carriage of Spun iron S & S pipes 500 mm dia Labour for laying	100 metre	5	2624.84	131.24
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	11.74	148.26	1740.61 A
	TOTAL				66441.85
	Add Water Charges @ 1% except on A i.e on				647.01
	TOTAL				67088.87 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				9181.43
	TOTAL				76270.30 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				11179.45
	Cost of 5 metre				87449.75
	Cost of 1 metre				17489.95
	Add 1% labour cess				174.90
	Rate	per metre			17664.80
18.71.10	600 mm dia C.I. Double Flanged Pipe.				
	Details of cost for 5 metre.				
	MATERIAL:				
	600 mm dia. cast iron pipes double flanged				
	weight of 1m pipe= 315.30kg				
	Weight of 5 m pipes 315.30x5 = 1576.50 kg				
7721	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 600 mm dia	metre	5	17905.00	89525.00
2329	Carriage of Spun iron S & S pipes 600mm dia Labour for laying	100 metre	5	3937.25	196.86
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	15.77	148.26	2338.11 A
	TOTAL				92059.98
	Add Water Charges @ 1% except on A i.e on				897.22
	TOTAL				92957.20 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				12731.98
	TOTAL				105689.18 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				15502.66
	Cost of 5 metre				121191.84
	Cost of 1 metre				24238.37
	Add 1% labour cess				242.38
	Rate	per metre			24480.80
18.72	Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329.				
18.72.1	100 mm dia Ductile Iron Class K-7 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	100mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe= 15.39 kg				














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7722	Weight of 10m pipes 15.39x10= 153.90 kg Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 100 mm dia	metre	10	800.00	8000.00
2343	Carriage of Ductile Iron pipes (k7) 100 mm dia Labour for laying	100 metre	10	358.32	35.83
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	1.54	148.26	228.33 A
	TOTAL				8264.16
	Add Water Charges @ 1% except on A i.e on TOTAL				80.36
	TOTAL				8344.52 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				1140.32
	TOTAL				9484.84 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 10 metre				1388.48
	Cost of 10 metre				10873.32
	Cost of 1 metre				1087.33
	Add 1% labour cess				10.87
	Rate	per metre			1098.20
18.72.2	150 mm dia Ductile Iron Class K-7 pipes. Details of cost for 10 metre. MATERIAL: 150 mm dia. cast iron pipes (in 5.5 m lengths) Weight of 1m pipe= 22.750kg Weight of 10m pipes 22.750x 10 = 227.50 kg				
7723	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 150 mm dia	metre	10	1140.00	11400.00
2344	Carriage of Cast iron pipes 150 mm dia Labour for laying	100 metre	10	597.20	59.72
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	2.28	148.26	338.04 A
	TOTAL				11797.76
	Add Water Charges @ 1% except on A i.e on TOTAL				114.60
	TOTAL				11912.36 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				1626.19
	TOTAL				13538.55 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 10 metre				1980.08
	Cost of 10 metre				15518.63
	Cost of 1 metre				1551.86
	Add 1% labour cess				15.52
	Rate	per metre			1567.40
18.72.3	200 mm dia Ductile Iron Class K-7 pipes. Details of cost for 10 metre. MATERIAL: 200 mm dia. cast iron pipes (in 5.5 m lengths) Weight of 1m pipe= 30.090 kg Weight of 10m pipes 30.090x10 = 300.90 kg				
7724	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 200 mm dia	metre	10	1400.00	14000.00
2345	Carriage of Cast iron pipes 200 mm dia Labour for laying	100 metre	10	971.45	97.15
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	3.01	148.26	446.27 A
	TOTAL				14543.42
	Add Water Charges @ 1% except on A i.e on TOTAL				140.97
	TOTAL				14684.39 (X)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				2000.46
	TOTAL				16684.84 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				2435.79
	Cost of 10 metre				19120.63
	Cost of 1 metre				1912.06
	Add 1% labour cess				19.12
	Rate	per metre			1931.20
18.72.4	250 mm dia Ductile Iron Class K-7 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	250mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe= 39.310kg				
	Weight of 10m pipes 39.310x10 = 393.10 kg				
7725	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 250 mm dia	metre	10	1800.00	18000.00
	Carriage of Cast iron pipes 250 mm dia				
2346	Labour for laying	100 metre	10	1380.48	138.05
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	3.93	148.26	582.68 A
	TOTAL				18720.72
	Add Water Charges @ 1% except on A i.e on				181.38
	TOTAL				18902.10 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				2573.88
	TOTAL				21475.98 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				3134.00
	Cost of 10 metre				24609.98
	Cost of 1 metre				2461.00
	Add 1% labour cess				24.61
	Rate	per metre			2485.60
18.72.5	300 mm dia Ductile Iron Class K-7 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	300mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe =48.400kg				
	Weight of 10m pipes 48.400x10 = 484.00 kg				
7726	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 300 mm dia	metre	10	2250.00	22500.00
	Carriage of Cast iron pipes 300 mm dia				
2347	Labour for laying	100 metre	10	1124.93	112.49
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	4.84	148.26	717.59 A
	TOTAL				23330.09
	Add Water Charges @ 1% except on A i.e on				226.12
	TOTAL				23556.21 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				3208.83
	TOTAL				26765.04 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				3907.12
	Cost of 10 metre				30672.16
	Cost of 1 metre				3067.22
	Add 1% labour cess				30.67
	Rate	per metre			3097.90
18.72.6	350 mm dia Ductile Iron Class K-7 pipes.				
	Details of cost for 10 metre				
	MATERIAL:				
	350mm dia. cast iron pipes (in 5.5 m lengths)				














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Weight of 1m pipe= 66.020kg Weight of 10m pipes 66.020x10 = 660.20 kg				
7727	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 350 mm dia	metre	10	2650.00	26500.00
	Carriage of Cast iron pipes 350 mm dia				
2348	Labour for laying	100 metre	10	2388.82	238.88
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	6.6	148.26	978.54 A
	TOTAL				27717.42
	Add Water Charges @ 1% except on A i.e on TOTAL				267.39
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				27984.81 (X)
	TOTAL				3794.38
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 10 metre				4620.10
	Cost of 10 metre				36399.29
	Cost of 1 metre				3639.93
	Add 1% labour cess				36.40
	Rate	per metre			3676.30
18.72.7	400 mm dia Ductile Iron Class K-7 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	400mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 10m pipes 78.280x10 = 782.80 kg				
7728	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 400 mm dia	metre	10	3175.00	31750.00
	Carriage of Cast iron pipes 400 mm dia				
2349	Labour for laying	100 metre	10	3257.48	325.75
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	7.83	148.26	1160.90 A
	TOTAL				33236.65
	Add Water Charges @ 1% except on A i.e on TOTAL				320.76
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				33557.41 (X)
	TOTAL				4551.71
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 10 metre				38109.12 (Y)
	Cost of 10 metre				5542.23
	Cost of 1 metre				43651.35
	Add 1% labour cess				4365.13
	Rate	per metre			4408.80
18.72.8	450 mm dia Ductile Iron Class K-7 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	450mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe= 91.410kg				
	Weight of 10m pipes 91.410x10 = 914.10 kg				
7729	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 450 mm dia	metre	10	3852.00	38520.00
	Carriage of Cast iron pipes 450 mm dia				
2350	Labour for laying	100 metre	10	3981.36	398.14
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	9.14	148.26	1355.13 A
	TOTAL				40273.26
	Add Water Charges @ 1% except on A i.e on TOTAL				389.18
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				40662.44 (X)
	TOTAL				5522.68
	Add CPOH @ 15% on "Y" except on A i.e on				46185.12 (Y)
					6724.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10 metre				52909.62
	Cost of 1 metre				5290.96
	Add 1% labour cess				52.91
	Rate	per metre			5343.90
18.72.9	500 mm dia Ductile Iron Class K-7 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	500mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe = 106.640 kg				
	Weight of 10m pipes 106.640x10 = 1066.40 kg				
7730	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 500 mm dia	metre	10	4350.00	43500.00
2351	Carriage of Cast iron pipes 500 mm dia	100 metre	10	3981.36	398.14
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	10.66	148.26	1580.49 A
	TOTAL				45478.62
	Add Water Charges @ 1% except on A i.e on TOTAL				438.98
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				45917.61 (X)
	TOTAL				6229.36
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 10 metre				52146.97 (Y)
	Cost of 10 metre				7584.97
	Cost of 1 metre				59731.94
	Add 1% labour cess				5973.19
	Rate	per metre			59.73
18.72.10	600 mm dia Ductile Iron Class K-7 pipes.				6032.90
	Details of cost for 10 metre.				
	MATERIAL:				
	600mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe=138.610kg				
	Weight of 10m pipes 138.610x10= 1386.10 kg				
7731	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 600 mm dia	metre	10	5600.00	56000.00
2352	Carriage of Cast iron pipes 600 mm dia	100 metre	10	5972.04	597.20
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	13.86	148.26	2054.93 A
	TOTAL				58652.13
	Add Water Charges @ 1% except on A i.e on TOTAL				565.97
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				59218.11 (X)
	TOTAL				8031.43
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 10 metre				67249.53 (Y)
	Cost of 10 metre				9779.19
	Cost of 1 metre				77028.72
	Add 1% labour cess				7702.87
	Rate	per metre			77.03
18.72.11	700 mm dia Ductile Iron Class K-7 pipes.				7779.90
	Details of cost for 10 metre.				
	MATERIAL:				
	700mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe=188.920 kg				
	Weight of 10m pipes 188.920x 10 = 1889.20 kg				








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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7732	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 700 mm dia	metre	10	7300.00	73000.00
2353	Carriage of Cast iron pipes 700 mm dia	100 metre	10	5972.04	597.20
18.23	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	18.89	148.26	2800.70 A
	TOTAL				76397.90
	Add Water Charges @ 1% except on A i.e on				735.97
	TOTAL				77133.87 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				10443.81
	TOTAL				87577.68 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				12716.55
	Cost of 10 metre				100294.23
	Cost of 1 metre				10029.42
	Add 1% labour cess				100.29
	Rate	per metre			10129.70
18.72.12	800 mm dia Ductile Iron Class K-7 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	800mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe= 243.510kg				
	Weight of 10m pipes 243.510x10 = 2435.10 kg				
7733	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 800 mm dia	metre	10	9100.00	91000.00
2355	Carriage of Cast iron pipes 800 mm dia	100 metre	10	5972.04	597.20
18.23	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	24.35	148.26	3610.21 A
	TOTAL				95207.42
	Add Water Charges @ 1% except on A i.e on				915.97
	TOTAL				96123.39 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				12998.10
	TOTAL				109121.49 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				15826.69
	Cost of 10 metre				124948.18
	Cost of 1 metre				12494.82
	Add 1% labour cess				124.95
	Rate	per metre			12619.80
18.72.13	900 mm dia Ductile Iron Class K-7 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	900 mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe= 282.74 kg				
	Weight of 10m pipes 282.74x10 = 2827.40 kg				
7734	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 900 mm dia	metre	10	11800.00	118000.00
2356	Carriage of Cast iron pipes 900 mm dia	100 metre	10	8958.06	895.81
18.23	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	28.27	148.26	4191.41 A
	TOTAL				123087.21
	Add Water Charges @ 1% except on A i.e on				1188.96
	TOTAL				124276.17 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				16871.91
	TOTAL				141148.08 (Y)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add CPOH @ 15% on "Y" except on A i.e on				20543.50
	Cost of 10 metre				161691.58
	Cost of 1 metre				16169.16
	Add 1% labour cess				161.69
	Rate	per metre			16330.80
18.72.14	1000 mm dia Ductile Iron Class K-7 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	1000 mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe= 348.230kg				
	Weight of 10m pipes 348.230x 10 = 3482.30 kg				
7735	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 1000 mm dia	metre	10	12300.00	123000.00
2357	Carriage of Cast iron pipes 1000 mm dia	100 metre	10	11944.08	1194.41
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	34.82	148.26	5162.53 A
	TOTAL				129356.94
	Add Water Charges @ 1% except on A i.e on				1241.94
	TOTAL				130598.88 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				17623.81
	TOTAL				148222.69 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				21459.02
	Cost of 10 metre				169681.72
	Cost of 1 metre				16968.17
	Add 1% labour cess				169.68
	Rate	per metre			17137.90
18.72.15	100 mm dia Ductile Iron Class K-9 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	100mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe= 17.760kg				
	Weight of 10m pipes 17.760x 10=177.60 kg				
7651	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 100 mm dia	metre	10	765.00	7650.00
2319	Carriage of Spun iron S & S pipes 100 mm dia	100 metre	10	358.32	35.83
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	1.776	148.26	263.32 A
	TOTAL				7949.15
	Add Water Charges @ 1% except on A i.e on				76.86
	TOTAL				8026.01 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				1090.66
	TOTAL				9116.66 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				1328.00
	Cost of 10 metre				10444.67
	Cost of 1 metre				1044.47
	Add 1% labour cess				10.44
	Rate	per metre			1054.90
18.72.16	150 mm dia Ductile Iron Class K-9 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	150 mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe =26.27kg				
	Weight of 10m pipes 26.270x10 = 262.70 kg				














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7652	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 150 mm dia	metre	10	1150.00	11500.00
2321	Carriage of Spun iron S & S pipes 150 mm dia Labour for laying	100 metre	10	597.20	59.72
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	2.627	148.26	389.49 A
	TOTAL				11949.21
	Add Water Charges @ 1% except on A i.e on TOTAL				115.60
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				12064.81 (X)
	TOTAL				1640.38
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 10 metre				13705.19 (Y)
	Cost of 10 metre				1997.35
	Cost of 1 metre				15702.54
	Cost of 1 metre				1570.25
	Add 1% labour cess				15.70
	Rate	per metre			1586.00
18.72.17	200 mm dia Ductile Iron Class K-9 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	200 mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe= 36.150kg				
	Weight of 10m pipes 36.150x 10 = 361.50 kg				
7653	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 200 mm dia	metre	10	1575.00	15750.00
2322	Carriage of Spun iron S & S pipes 200 mm dia Labour for laying	100 metre	10	971.45	97.15
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	3.615	148.26	535.97 A
	TOTAL				16383.12
	Add Water Charges @ 1% except on A i.e on TOTAL				158.47
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				16541.59 (X)
	TOTAL				2248.79
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 10 metre				18790.38 (Y)
	Cost of 10 metre				2738.16
	Cost of 1 metre				21528.54
	Cost of 1 metre				2152.85
	Add 1% labour cess				21.53
	Rate	per metre			2174.40
18.72.18	250 mm dia Ductile Iron Class K-9 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	250mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe = 48.00 kg				
	Weight of 10m pipes 48.00x10 = 480.00 kg				
7654	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 250 mm dia	metre	10	2200.00	22000.00
2323	Carriage of Spun iron S & S pipes 250 mm dia Labour for laying	100 metre	10	1380.48	138.05
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	4.8	148.26	711.66 A
	TOTAL				22849.71
	Add Water Charges @ 1% except on A i.e on TOTAL				221.38
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				23071.09 (X)
	TOTAL				3141.50
	Add CPOH @ 15% on "Y" except on A i.e on				26212.59 (Y)
					3825.14

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7652	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 150 mm dia	metre	10	1150.00	11500.00
2321	Carriage of Spun iron S & S pipes 150 mm dia Labour for laying	100 metre	10	597.20	59.72
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	2.627	148.26	389.49 A
	TOTAL				11949.21
	Add Water Charges @ 1% except on A i.e on TOTAL				115.60
	TOTAL				12064.81 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				1640.38
	TOTAL				13705.19 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				1997.35
	Cost of 10 metre				15702.54
	Cost of 1 metre				1570.25
	Add 1% labour cess				15.70
	Rate	per metre			1586.00
18.72.17	200 mm dia Ductile Iron Class K-9 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	200 mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe= 36.150kg				
	Weight of 10m pipes 36.150x 10 = 361.50 kg				
7653	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 200 mm dia	metre	10	1575.00	15750.00
2322	Carriage of Spun iron S & S pipes 200 mm dia Labour for laying	100 metre	10	971.45	97.15
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	3.615	148.26	535.97 A
	TOTAL				16383.12
	Add Water Charges @ 1% except on A i.e on TOTAL				158.47
	TOTAL				16541.59 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				2248.79
	TOTAL				18790.38 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				2738.16
	Cost of 10 metre				21528.54
	Cost of 1 metre				2152.85
	Add 1% labour cess				21.53
	Rate	per metre			2174.40
18.72.18	250 mm dia Ductile Iron Class K-9 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	250mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe = 48.00 kg				
	Weight of 10m pipes 48.00x10 = 480.00 kg				
7654	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 250 mm dia	metre	10	2200.00	22000.00
2323	Carriage of Spun iron S & S pipes 250 mm dia Labour for laying	100 metre	10	1380.48	138.05
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	4.8	148.26	711.66 A
	TOTAL				22849.71
	Add Water Charges @ 1% except on A i.e on TOTAL				221.38
	TOTAL				23071.09 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				3141.50
	TOTAL				26212.59 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				3825.14
	Cost of 10 metre				30037.73














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 metre				3003.77
	Add 1% labour cess				30.04
	Rate	per metre			3033.80
18.72.19	300 mm dia Ductile Iron Class K-9 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	300mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe= 60.490 kg				
	Weight of 10m pipes 60.490x10 = 604.90 kg				
7655	Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 300 mm dia	metre	10	2750.00	27500.00
2324	Carriage of Spun iron S & S pipes 300 mm. dia Labour for laying	100 metre	10	1706.30	170.63
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	6.049	148.26	896.85 A
	TOTAL				28567.48
	Add Water Charges @ 1% except on A i.e on TOTAL				276.71
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				28844.18 (X)
	TOTAL				3926.60
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 10 metre				32770.78 (Y)
	Cost of 10 metre				4781.09
	Cost of 1 metre				37551.87
	Add 1% labour cess				3755.19
	Rate	per metre			37.55
	3792.70				
18.72.20	350 mm dia Ductile Iron Class K-9 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	350mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe = 79.730 kg				
	Weight of 10m pipes 79.730x10 = 797.30 kg				
7656	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 350 mm dia	metre	10	3350.00	33500.00
2325	Carriage of Spun iron S & S pipes 350 mm dia Labour for laying	100 metre	10	2388.82	238.88
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	7.973	148.26	1182.10 A
	TOTAL				34920.99
	Add Water Charges @ 1% except on A i.e on TOTAL				337.39
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				35258.37 (X)
	TOTAL				4787.72
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 10 metre				40046.09 (Y)
	Cost of 10 metre				5829.60
	Cost of 1 metre				45875.69
	Add 1% labour cess				4587.57
	Rate	per metre			45.88
	4633.40				
18.72.21	400 mm dia Ductile Iron Class K-9 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	400mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe =94.800 kg				
	Weight of 10m pipes 94.800x10 = 948.00 kg				
7657	Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 400 mm dia	metre	10	4300.00	43000.00
2326	Carriage of Spun iron S & S pipes 400 mm dia Labour for laying	100 metre	10	3257.48	325.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	9.48	148.26	1405.54 A
	TOTAL				44731.29
	Add Water Charges @ 1% except on A i.e on TOTAL				433.26
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				45164.54 (X)
	TOTAL				6148.14
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 10 metre				51312.68 (Y)
	Cost of 10 metre				7486.07
	Cost of 1 metre				58798.75
	Cost of 1 metre				5879.88
	Add 1% labour cess				58.80
	Rate	per metre			5938.70
18.72.22	450 mm dia Ductile Iron Class K-9 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	450mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe= 110.970kg				
	Weight of 10m pipes 110.970x 10 = 1109.70 kg				
7658	Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 450 mm dia	metre	10	5000.00	50000.00
2327	Carriage of Spun iron S & S pipes 450 mm dia Labour for laying	100 metre	10	3981.36	398.14
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	11.097	148.26	1645.28 A
	TOTAL				52043.42
	Add Water Charges @ 1% except on A i.e on TOTAL				503.98
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				52547.40 (X)
	TOTAL				7151.75
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 10 metre				59699.14 (Y)
	Cost of 10 metre				8708.08
	Cost of 1 metre				68407.22
	Cost of 1 metre				6840.72
	Add 1% labour cess				68.41
	Rate	per metre			6909.10
18.72.23	500 mm dia Ductile Iron Class K-9 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	500mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe =129.480kg				
	Weight of 10m pipes 129.480x10= 1294.80 kg				
7659	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 500 mm dia	metre	10	6270.00	62700.00
2328	Carriage of Spun iron S & S pipes 500 mm dia Labour for laying	100 metre	10	3981.36	398.14
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	12.948	148.26	1919.71 A
	TOTAL				65017.85
	Add Water Charges @ 1% except on A i.e on TOTAL				630.98
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				65648.83 (X)
	TOTAL				8953.94
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 10 metre				74602.77 (Y)
	Cost of 10 metre				10902.46
	Cost of 1 metre				85505.23














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 metre				8550.52
	Add 1% labour cess				85.51
	Rate	per metre			8636.00
18.72.24	600 mm dia Ductile Iron Class K-9 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	600mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe= 168.680 kg				
	Weight of 10m pipes 168.680x10= 1686.80 kg				
7660	Ductile Iron class K -9 pipe Conforming to I.S. 8329 - 600 mm dia	metre	10	7560.00	75600.00
2329	Carriage of Spun iron S & S pipes 600mm dia Labour for laying	100 metre	10	5972.04	597.20
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	16.868	148.26	2500.91 A
	TOTAL				78698.11
	Add Water Charges @ 1% except on A i.e on TOTAL				761.97
	TOTAL				79460.08 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				10812.76
	TOTAL				90272.85 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on TOTAL				13165.79
	Cost of 10 metre				103438.64
	Cost of 1 metre				10343.86
	Add 1% labour cess				103.44
	Rate	per metre			10447.30
18.72.25	700 mm dia Ductile Iron Class K-9 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	700mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe= 217.540 kg				
	Weight of 10m pipes 217.540x10 = 2175.40 kg				
7661	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 700 mm dia	metre	10	10500.00	105000.00
2330	Carriage of C.I. pipes 500 mm dia Labour for laying	100 metre	10	3981.36	398.14
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	21.754	148.26	3225.32 A
	TOTAL				108623.46
	Add Water Charges @ 1% except on A i.e on TOTAL				1053.98
	TOTAL				109677.44 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				14956.52
	TOTAL				124633.96 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on TOTAL				18211.30
	Cost of 10 metre				142845.26
	Cost of 1 metre				14284.53
	Add 1% labour cess				142.85
	Rate	per metre			14427.40
18.72.26	750 mm dia Ductile Iron Class K-9 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	750mm dia. cast iron pipes (in 5.5 m lengths)				
	Wt. of 1 m pipe = 242.60 kg.				
	Weight of 10m pipes 242.60x10 = 2426.00 kg				
7662	Ductile Iron class K - 9 pipe Conforming to	metre	10	11350.00	113500.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2331	I.S. 8329 - 750 mm dia Carriage of R.C.C. pipes 900 mm dia	100 metre	10	8958.06	895.81
18.23	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	24.26	148.26	3596.87 A
	TOTAL				117992.68
	Add Water Charges @ 1% except on A i.e on				1143.96
	TOTAL				119136.63 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				16233.34
	TOTAL				135369.97 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				19765.97
	Cost of 10 metre				155135.94
	Cost of 1 metre				15513.59
	Add 1% labour cess				155.14
	Rate	per metre			15668.70
18.72.27	800 mm dia Ductile Iron Class K-9 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	800 mm dia. cast iron pfpes (in 5.5 m lengths)				
	Weight of 1m pipe= 267.100 kg				
	Weight of 10m pipes 267.100x10 =				
	2671.00 kg				
7663	Ductile Iron class K - 9 pipe Conforming to	metre	10	11450.00	114500.00
	I.S. 8329 - 800 mm dia				
2332	Carriage of R.C.C. pipes 1000 mm dia	100 metre	10	11944.08	1194.41
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	26.71	148.26	3960.12
	TOTAL				119654.52
	Add Water Charges @ 1% except on A i.e on				1156.94
	TOTAL				120811.47 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				16417.61
	TOTAL				137229.08 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				19990.35
	Cost of 10 metre				157219.43
	Cost of 1 metre				15721.94
	Add 1% labour cess				157.22
	Rate	per metre			15879.20
18.72.28	900 mm dia Ductile Iron Class K-9 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	900 mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe =321.290 kg				
	Weight of 10m pipes 321.290x10 =				
	3212.90 kg				
7664	Ductile Iron class K - 9 pipe Conforming to	metre	10	13900.00	139000.00
	I.S. 8329 - 900 mm dia				
2333	Carriage of R. C. C. pipes 1100 mm dia	100 metre	10	11944.08	1194.41
	Labour for laying				
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	32.129	148.26	4763.56 A
	TOTAL				144957.96
	Add Water Charges @ 1% except on A i.e on				1401.94
	TOTAL				146359.91 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				19894.29
	TOTAL				166254.19 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				24223.60














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10 metre				190477.79
	Cost of 1 metre				19047.78
	Add 1% labour cess				190.48
	Rate	per metre			19238.30
18.72.29	1000 mm dia Ductile Iron Class K-9 pipes.				
	Details of cost for 10 metre.				
	MATERIAL:				
	1000 mm dia. cast iron pipes (in 5.5 m lengths)				
	Weight of 1m pipe = 380.190 kg				
	Weight of 10m pipes 380.190x10 = 3801.90 kg				
7665	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 1000 mm dia	metre	10	15550.00	155500.00
2334	Carriage of R.C.C. pipes 1200 mm dia Labour for laying	100 metre	10	11944.08	1194.41
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	38.019	148.26	5636.83 A
	TOTAL				162331.23
	Add Water Charges @ 1% except on A i.e on TOTAL				1566.94
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				163898.18 (X)
	TOTAL				22235.72
	Add CPOH @ 15% on "Y" except on A i.e on				186133.90 (Y)
	Cost of 10 metre				27074.56
	Cost of 1 metre				213208.46
	Add 1% labour cess				21320.85
	Rate	per metre			213.21
18.73	Providing and laying Double Flanged (Screwed / Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K-9 conforming to IS: 8329.				21534.10
18.73.1	100 mm dia Ductile Iron Double Flanged.				
	Details of cost for 5 metre.				
	MATERIAL:				
	100 mm dia. ductile iron pipes double flanged				
	Weight of 1m pipe = 21.700 kg				
	Weight of 10m pipes 21.700x5 = 108.50 kg				
7686	Ductile Iron Pipe Class K-9 flanges and welding 100 mm dia	metre	5	1100.00	5500.00
2319	Carriage of Spun iron S & S pipes 100 mm dia Labour for laying	100 metre	5	358.32	17.92
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	1.09	148.26	161.61 A
	TOTAL				5679.52
	Add Water Charges @ 1% except on A i.e on TOTAL				55.18
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				5734.70 (X)
	TOTAL				783.02
	Add CPOH @ 15% on "Y" except on A i.e on				6517.72 (Y)
	Cost of 5 metre				953.42
	Cost of 1 metre				7471.14
	Add 1% labour cess				1494.23
	Rate	per metre			14.94
18.73.2	150 mm dia Ductile Iron Double Flanged.				1509.20
	Details of cost for 5 metre.				
	MATERIAL:				
	150 mm dia. ductile iron pipes double flanged				
	Weight of 1m pipe = 32.600 kg				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7687	Weight of 5m pipes 32.600x5 = 163.00kg Ductile Iron Pipe Class K-9 flanges and welding 150 mm dia	metre	5	1650.00	8250.00
2321	Carriage of Spun iron S & S pipes 150 mm dia Labour for laying	100 metre	5	597.20	29.86
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	1.63	148.26	241.67 A
	TOTAL				8521.53
	Add Water Charges @ 1% except on A i.e on TOTAL				82.80
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				8604.33 (X)
	TOTAL				1174.95
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 5 metre				9779.28 (Y)
	Cost of 1 metre				1430.64
	Add 1% labour cess				11209.92
	Rate	per metre			2241.98
					22.42
					2264.40
18.73.3	200 mm dia Ductile Iron Double Flanged. Details of cost for 5 metre. MATERIAL: 200mm dia. ductile iron pipes double flanged Weight of 1m pipe = 44.200 kg Weight of 5m pipes 44.200x5 = 221.00kg				
7688	Ductile Iron Pipe Class K-9 flanges and welding 200 mm dia	metre	5	2075.00	10375.00
2322	Carriage of Spun iron S & S pipes 200 mm dia Labour for laying	100 metre	5	971.45	48.57
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	2.21	148.26	327.66 A
	TOTAL				10751.23
	Add Water Charges @ 1% except on A i.e on TOTAL				104.24
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				10855.47 (X)
	TOTAL				1479.16
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 5 metre				12334.63 (Y)
	Cost of 1 metre				1801.04
	Add 1% labour cess				14135.67
	Rate	per metre			2827.13
					28.27
					2855.40
18.73.4	250 mm dia Ductile Iron Double Flanged. Details of cost for 5 metre. MATERIAL: 250 mm dia. ductile iron pipes double flanged Weight of 1m pipe = 59.400kg Weight of 5m pipes 59.400x5 = 297.00kg				
7689	Ductile Iron Pipe Class K-9 flanges and welding 250 mm dia	metre	5	2950.00	14750.00
2323	Carriage of Spun iron S & S pipes 250 mm dia Labour for laying	100 metre	5	1380.48	69.02
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	2.97	148.26	440.34 A
	TOTAL				15259.37
	Add Water Charges @ 1% except on A i.e on TOTAL				148.19
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				15407.56 (X)
	TOTAL				2102.89
	Add CPOH @ 15% on "Y" except on A i.e on				17510.45 (Y)
					2560.52














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 5 metre				20070.97
	Cost of 1 metre				4014.19
	Add 1% labour cess				40.14
	Rate	per metre			4054.30
18.73.5	300 mm dia Ductile Iron Double Flanged.				
	Details of cost for 5 metre.				
	MATERIAL:				
	300 mm dia. ductile iron pipes double flanged				
	Weight of 1m pipe =76.400kg				
	Weight of 5m pipes 76.400x5 = 382.00kg				
7690	Ductile Iron Pipe Class K-9 flanges and welding 300 mm dia	metre	5	3790.00	18950.00
2324	Carriage of Spun iron S & S pipes 300 mm. dia Labour for laying	100 metre	5	1706.30	85.32
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	3.82	148.26	566.37 A
	TOTAL				19601.68
	Add Water Charges @ 1% except on A i.e on				190.35
	TOTAL				19792.03 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				2701.21
	TOTAL				22493.24 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				3289.03
	Cost of 5 metre				25782.27
	Cost of 1 metre				5156.45
	Add 1% labour cess				51.56
	Rate	per metre			5208.00
18.73.6	350 mm dia Ductile Iron Double Flanged.				
	Details of cost for 5 metre.				
	MATERIAL:				
	350 mm dia. ductile iron pipes double flanged				
	Weight of 1m pipe =91.400kg				
	Weight of 5m pipes 91.400x5 = 457.00kg				
7691	Ductile Iron Pipe Class K-9 flanges and welding 350 mm dia	metre	5	4780.00	23900.00
2325	Carriage of Spun iron S & S pipes 350 mm dia Labour for laying	100 metre	5	2388.82	119.44
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	4.57	148.26	677.56 A
	TOTAL				24697.00
	Add Water Charges @ 1% except on A i.e on				240.19
	TOTAL				24937.20 (X)
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				3408.48
	TOTAL				28345.68 (Y)
	Add CPOH @ 15% on "Y" except on A i.e on				4150.22
	Cost of 5 metre				32495.90
	Cost of 1 metre				6499.18
	Add 1% labour cess				64.99
	Rate	per metre			6564.20
18.73.7	400 mm dia Ductile Iron Double Flanged.				
	Details of cost for 5 metre.				
	MATERIAL:				
	400 mm dia. ductile iron pipes double flanged				
	Weight of 1m pipe =108.100kg				
	Weight of 5m pipes 108.100x5 = 540.50kg				
7692	Ductile Iron Pipe Class K-9 flanges and welding 400 mm dia	metre	5	6150.00	30750.00
2326	Carriage of Spun iron S & S pipes 400 mm	100 metre	5	3257.48	162.87

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.23	dia Labour for laying Rate as per Item Number 18.23 of SH: Water supply	quintal	5.4	148.26	800.62 A
	TOTAL				31713.50
	Add Water Charges @ 1% except on A i.e on TOTAL				309.13
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				32022.63 (X)
	TOTAL				4386.69
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 5 metre				36409.32 (Y)
	Cost of 1 metre				5341.30
	Cost of 5 metre				41750.62
	Cost of 1 metre				8350.12
	Add 1% labour cess				83.50
	Rate	per metre			8433.60
18.73.8	450 mm dia Ductile Iron Double Flanged.				
	Details of cost for 5 metre.				
	MATERIAL:				
	450 mm dia. ductile iron pipes double flanged				
	Weight of 1m pipe =127.800kg				
	Weight of 5m pipes 127.800x5 = 639.00kg				
7693	Ductile Iron Pipe Class K-9 flanges and welding 450 mm dia	metre	5	6453.00	32265.00
2327	Carriage of Spun iron S & S pipes 450 mm dia Labour for laying	100 metre	5	3981.36	199.07
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	6.39	148.26	947.40 A
	TOTAL				33411.47
	Add Water Charges @ 1% except on A i.e on TOTAL				324.64
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				33736.11 (X)
	TOTAL				4606.81
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 5 metre				38342.93 (Y)
	Cost of 1 metre				5609.33
	Cost of 5 metre				43952.25
	Cost of 1 metre				8790.45
	Add 1% labour cess				87.90
	Rate	per metre			8878.40
18.73.9	500 mm dia Ductile Iron Double Flanged				
	Details of cost for 5 metre				
	MATERIAL:				
	500 mm dia. ductile iron pipes double flanged				
	Weight of 1m pipe =147.900kg				
	Weight of 5m pipes 147.900x5 = 739.50kg				
7694	Ductile Iron Pipe Class K-9 flanges and welding 500 mm dia	metre	5	9180.00	45900.00
2328	Carriage of Spun iron S & S pipes 500 mm dia Labour for laying	100 metre	5	3981.36	199.07
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	7.4	148.26	1097.15 A
	TOTAL				47196.22
	Add Water Charges @ 1% except on A i.e on TOTAL				460.99
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				47657.21 (X)
	TOTAL				6541.69
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 5 metre				54198.90 (Y)
	Cost of 1 metre				7965.26
	Cost of 5 metre				62164.16
	Cost of 1 metre				12432.83
	Add 1% labour cess				124.33
	Rate	per metre			12557.20














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.73.10	600 mm dia Ductile Iron Double Flanged. Details of cost for 5 metre. MATERIAL: 600 mm dia. ductile iron pipes double flanged Weight of 1m pipe =198.900kg Weight of 5m pipes 198.900x5 = 994.50kg				
7695	Ductile Iron Pipe Class K-9 flanges and welding 600 mm dia	metre	5	12150.00	60750.00
2329	Carriage of Spun iron S & S pipes 600mm dia Labour for laying	100 metre	5	5972.04	298.60
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	9.95	148.26	1475.22 A
	TOTAL				62523.82
	Add Water Charges @ 1% except on A i.e on TOTAL				610.49
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				63134.31 (X)
	TOTAL				8663.10
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 5 metre				71797.41 (Y)
	Cost of 1 metre				10548.33
	Add 1% labour cess				82345.74
	Rate	per metre			16469.15
					164.69
					16633.80
18.73.11	700 mm dia Ductile Iron Double Flanged. Details of cost for 5 metre. MATERIAL: 700 mm dia. ductile iron pipes double flanged Weight of 1m pipe =254.90 kg Weight of 5m pipes 254.90x5 = 1274.50 kg				
7696	Ductile Iron Pipe Class K-9 flanges and welding 700 mm dia	metre	5	14370.00	71850.00
2330	Carriage of C.I. pipes 500 mm dia Labour for laying	100 metre	5	3981.36	199.07
18.23	Rate as per Item Number 18.23 of SH: Water supply	quintal	12.75	148.26	1890.36 A
	TOTAL				73939.43
	Add Water Charges @ 1% except on A i.e on TOTAL				720.49
	Add GST 12% on "X" except on A (multiplying factor 0.1405)				74659.92 (X)
	TOTAL				10224.12
	Add CPOH @ 15% on "Y" except on A i.e on Cost of 5 metre				84884.04 (Y)
	Cost of 1 metre				12449.05
	Add 1% labour cess				97333.09
	Rate	per metre			19466.62
					194.67
					19661.30
18.74	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.				
18.74.1	15 mm nominal bore with 30 cm length. Details of cost for one no. MATERIAL: 15 mm nominal bore and 30 cm length PVC connection pipe with P.T.M.T. Nuts				
7862	15 mm nominal bore and 30 cm length PVC connection pipe with P.T.M.T. Nuts	each	1	38.00	38.00
9999	Carriage of materials and fixing charges	L.S.	12.22	2.12	25.91
	TOTAL				63.91
	Add Water Charges @ 1%				0.64
	TOTAL				64.55 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				9.07
	TOTAL				73.61 (Y)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add CPOH @ 15% on "Y"				11.04
	Cost of each				84.70
	Add 1% labour cess				0.85
	Rate	each			85.50
18.74.2	15 mm nominal bore with 45 cm length.				
	Details of cost for one no.				
	MATERIAL:				
7863	15 mm nominal bore and 45 cm length PVC connection pipe with P.T.M.T. Nuts	each	1	52.00	52.00
9999	Carriage of materials and fixing charges	L.S.	13.52	2.12	28.66
	TOTAL				80.66
	Add Water Charges @ 1%				0.81
	TOTAL				81.47 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				11.45
	TOTAL				92.92 (Y)
	Add CPOH @ 15% on "Y"				13.94
	Cost of each				106.90
	Add 1% labour cess				1.07
	Rate	each			108.00
18.75	Providing and fixing PTMT extension nipple				
18.75.1	15 mm nominal bore, weighing not less than				
	Details of cost for one no.				
	MATERIAL:				
7864	P.T.M.T. extension nipple 15 mm	each	1	25.00	25.00
9999	Carriage of materials and fixing charges	L.S.	3.38	2.12	7.17
	TOTAL				32.17
	Add Water Charges @ 1%				0.32
	TOTAL				32.49 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				4.56
	TOTAL				37.05 (Y)
	Add CPOH @ 15% on "Y"				5.56
	Cost of each				42.60
	Add 1% labour cess				0.43
	Rate	each			43.00
18.75.2	20 mm nominal bore, weighing not less than				
	Details of cost for one no.				
	MATERIAL:				
7865	P.T.M.T. extension nipple 20 mm	each	1	50.00	50.00
9999	Carriage of materials and fixing charges	L.S.	3.38	2.12	7.17
	TOTAL				57.17
	Add Water Charges @ 1%				0.57
	TOTAL				57.74 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				8.11
	TOTAL				65.85 (Y)
	Add CPOH @ 15% on "Y"				9.88
	Cost of each				75.70
	Add 1% labour cess				0.76
	Rate	each			76.50
18.75.3	25 mm nominal bore, weighing not less than				
	Details of cost for one no.				
	MATERIAL:				
7866	P.T.M.T. extension nipple 25 mm	each	1	68.00	68.00
9999	Carriage of materials and fixing charges	L.S.	3.38	2.12	7.17
	TOTAL				75.17
	Add Water Charges @ 1%				0.75
	TOTAL				75.92 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				10.67
	TOTAL				86.58 (Y)














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add CPOH @ 15% on "Y"				12.99
	Cost of each				99.60
	Add 1% labour cess				1.00
	Rate	each			100.60
18.76	Cutting holes up to 30x30 cm in walls				
18.76.1	With common burnt clay F.P.S. (non modular)				
	Details of cost for 10 holes Size 30x30cm in 34 cm wall				
	Labour for cutting holes				
123	Mason (brick layer) 1 st class	day	0.16	413.00	66.08
124	Mason (brick layer) 2nd class	day	0.16	369.00	59.04
114	Beldar	day	1.25	306.00	382.50
	Brick work with bricks of class designation 75 in cement mortar 1:4(1 cement: 4 coarse sand)				
	10x0.30x0.30x0.344m = 0.309 cum				
	Les 33% for pipe etc. = (-) 0.102 cum				
	= 0.207 cum Say 0.21 cum				
6.4.1	Rate as per Item Number 6.4.1 of SH: Brick work	cum	0.21	4968.25054	1043.33 A
	10x2x0.3x0.3m = 1.80 sqm				
	Les 33% for pipe etc. = (-) 0.59 sqm				
	= 1.21 sqm Say 1.20 sqm				
13.11.1	Rate as per Item Number 13.11.1 of SH: Finishing	sqm	1.2	151.40	181.68 A
9999	Add for delay	L.S.	16.12	2.12	34.17
9999	Sundries	L.S.	8.06	2.12	17.09
	TOTAL				1783.89
	Add Water Charges @ 1% except on A i.e on				5.59
	TOTAL				1789.48 (X)
	Add GST 12% on "X" except A (multiplying factor				79.31
	TOTAL				1868.79 (Y)
	Add CPOH @ 15% on "Y"except A				96.57
	Cost of 10 nos				1965.36
	Cost of each				196.54
	Add 1% labour cess				1.97
	Rate	each			198.50
18.77	Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size),including finishing complete so as to make it leak proof.				
	Details of cost for 10 holes Average size . 15x15x15 cm				
	Labour for cutting holes				
123	Mason (brick layer) 1 st class	day	0.83	413.00	342.79
124	Mason (brick layer) 2nd class	day	0.83	369.00	306.27
114	Beldar	day	1.67	306.00	511.02
	Cement concrete 1:2:4 (1 cement: 2 coarse sand ; 4 graded stone aggregate 20 mm nominal size)				
	10x0.15x0.15x0.15 m = 0.033 cum				
	Les 33% for pipe etc. = (-) 0.011 cum				
	= 0.022 cum Say 0.02 cum				
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.02	4959.99	99.20 A
9999	Finishing top and bottom and making the holes leak proof	L.S.	121.16	2.12	256.86

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Add for delay	L.S.	40.3	2.12	85.44
9999	Sundries	L.S.	21.58	2.12	45.75
	TOTAL				1647.32
	Add Water Charges @ 1% except on A i.e on (1647.32 - 99.2 =)				15.48
	TOTAL				1662.81 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405) (1662.81 - 99.2 * 0.1405)				219.69
	TOTAL				1882.49 (Y)
	Add CPOH @ 15% on "Y" except A i.e on (1882.49 - 99.2 =)				267.49
	Cost of 10 nos				2149.99
	Cost of each				215.00
	Add 1% labour cess				2.15
	Rate	each			217.10
18.78	Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc.				
	Details of cost for 10 metre.				
	Labour for making chases				
123	Mason (brick layer) 1 st class	day	0.25	413.00	103.25
124	Mason (brick layer) 2nd class	day	0.25	369.00	92.25
114	Beldar	day	1	306.00	306.00
	Cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) 0.075x0.075x10 m = 0.05625 cum Less 33% for pipe etc. = (-) 0.01856 cum = 0.03769 cum Say 0.04 cum				
4.2.5	Rate as per Item Number 4.2.5 of SH:	cum	0.04	4519.03	180.76 A
	Concrete work				
	TOTAL				682.26
	Add Water Charges @ 1% except on A i.e on (682.26 - 180.76 =)				5.02
	TOTAL				687.28 (X)
	Add GST 12% on "X" except on "A" (multiplying factor 0.1405) (687.28 - 180.76 * 0.1405)				71.17
	TOTAL				758.44 (Y)
	Add CPOH @ 15% except on A i.e on (687.28 - 180.76 =)				86.65
	Cost of 10 metre				845.09
	Cost of 1 metre				84.51
	Add 1% labour cess				0.85
	Rate	per m			85.40
18.79	Making hole up to 20x20 cm and embedding pipes up to 150 mm diameter in masonry and filling with cement concrete 1:3:6 (1 cement : 3 coarse sand 6 graded stone aggregate 20 mm nominal size) including disposal of malba.				
	Details of cost for 10 metres.				
	Cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) 0.2x0.2x10 m = 0.40 cum Less for pipe 3.1416 x 0.15 ² / 4 x 10 m = 0.177 cum = 0.223 cum Say 0.22 cum				














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.2.5	Rate as per Item Number 4.2.5 of SH:	cum	0.22	4519.03	994.19 A
	Concrete work				
9999	Disposal of malba	L.S.	13.52	2.12	28.66
	TOTAL				1108.25
	Add Water Charges @ 1% except on A i.e on				1.14
	TOTAL				1109.39 (X)
	Add GST 12% on "X" except on "A"(multiplying factor 0.1405)				16.19
	Total				1125.58 (Y)
	Add CPOH @ 15% except on "Y" A i.e on				19.71
	Cost of 10 metre				1145.28
	Cost of 1 metre				114.53
	Add 1% labour cess				1.15
	Rate	per m			115.70
18.80	Disinfecting C.I. 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 the municipal laboratory.				
18.80.1	80 mm diameter C.I. pipe.				
	Details of cost for 100 metres.				
	MATERIAL:				
	Bleaching powder				
	$3 \times 3.1416/4 \times (80/10)^2 \times (100 \times 100)/1000 \times 0.5$				
	gms. = 754.28 gms Say 0.008 q				
1301	Bleaching powder	quintal	0.008	1800.00	14.40
	LABOUR:				
116	Fitter (grade 1)	day	0.33	420.00	138.60
114	Beldar	day	1.31	306.00	400.86
9999	Sundries including testing of samples	L.S.	9.88	2.12	20.95
	TOTAL				574.81
	Add Water Charges @ 1%				5.75
	TOTAL				580.55 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				81.57
	TOTAL				662.12 (Y)
	Add CPOH @ 15% on "Y"				99.32
	Cost of 100 metre				761.44
	Add 1% labour cess				7.61
	Rate	per 100 m			769.10
18.80.2	100 mm diameter C.I. pipe.				
	Details of cost for 100 metres.				
	MATERIAL:				
	Bleaching powder				
	$3 \times (3.1416/4) \times (100/10)^2 \times (100 \times 100)/1000 \times 0.5$				
	gms.				
	= 1178.57 gms Say 0.012 q				
1301	Bleaching powder	quintal	0.012	1800	21.60
	LABOUR:				
116	Fitter (grade 1)	day	0.49	420.00	205.80
114	Beldar	day	1.64	306.00	501.84
9999	Sundries including testing of samples	L.S.	13.52	2.12	28.66
	TOTAL				757.90
	Add Water Charges @ 1%				7.58
	TOTAL				765.48 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				107.55
	TOTAL				873.03 (Y)
	Add CPOH @ 15% on "Y"				130.95
	Cost of 100 metre				1003.99
	Add 1% labour cess				10.04
	Rate	per 100 m			1014.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.80.3	125 mm diameter C.I. pipe. Details of cost for 100 metres. MATERIAL: Bleaching powder $3 \times (3.1416/4) \times (125/10)^2 \times (100 \times 100) / 1000 \times 0.5$ gms. = 1841.52 gms Say 0.008 q				
1301	Bleaching powder	quintal	0.018	1800	32.40
	LABOUR:				
116	Fitter (grade 1)	day	0.66	420.00	277.20
114	Beldar	day	1.97	306.00	602.82
9999	Sundries including testing of samples	L.S.	17.94	2.12	38.03
	TOTAL				950.45
	Add Water Charges @ 1%				9.50
	TOTAL				959.96 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				134.87
	TOTAL				1094.83 (Y)
	Add CPOH @ 15% on "Y"				164.22
	Cost of 100 metre				1259.06
	Add 1% labour cess				12.59
	Rate	per 100 m			1271.60
18.80.4	150 mm diameter C.I. pipe. Details of cost for 100 metres. MATERIAL: Bleaching powder $3 \times (3.1416/4) \times (150/10)^2 \times (100 \times 100) / 1000 \times 0.5$ gms. = 2651 gms Say 0.027 q				
1301	Bleaching powder	quintal	0.027	1800	48.60
	LABOUR:				
116	Fitter (grade 1)	day	0.82	420.00	344.40
114	Beldar	day	2.3	306.00	703.80
9999	Sundries including testing of samples	L.S.	22.88	2.12	48.51
	TOTAL				1145.31
	Add Water Charges @ 1%				11.45
	TOTAL				1156.76 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				162.52
	TOTAL				1319.28 (Y)
	Add CPOH @ 15% on "Y"				197.89
	Cost of 100 metre				1517.18
	Add 1% labour cess				15.17
	Rate	per 100 m			1532.30
18.80.5	200 mm diameter C.I. pipe. Details of cost for 100 metres. MATERIAL: Bleaching powder $3 \times (3.1416/4) \times (200/10)^2 \times (100 \times 100) / 1000 \times 0.5$ gms. = 4712.39 gms Say 0.047 q				
1301	Bleaching powder	quintal	0.047	1800	84.60
	LABOUR:				
116	Fitter (grade 1)	day	1.15	420.00	483.00
114	Beldar	day	2.95	306.00	902.70
9999	Sundries including testing of samples	L.S.	31.46	2.12	66.70
	TOTAL				1537.00
	Add Water Charges @ 1%				15.37
	TOTAL				1552.37 (X)














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST 12% on "X" (multiplying factor 0.1405)				218.11
	TOTAL				1770.47 (Y)
	Add CPOH @ 15% on "Y"				265.57
	Cost of 100 metre				2036.04
	Add 1% labour cess				20.36
	Rate		per 100 m		2056.40
18.80.6	250 mm diameter C.I. pipe.				
	Details of cost for 100 metres.				
	MATERIAL:				
	Bleaching powder				
	$3 \times (3.1416/4) \times (250/10)^2 \times (100 \times 100) / 1000 \times 0.5$				
	gms.				
	= 7363.10 gms Say 0.074 q				
1301	Bleaching powder	quintal	0.074	1800	133.20
	LABOUR:				
116	Fitter (grade 1)	day	1.48	420.00	621.60
114	Beldar	day	3.61	306.00	1104.66
9999	Sundries including testing of samples	L.S.	40.3	2.12	85.44
	TOTAL				1944.90
	Add Water Charges @ 1%				19.45
	TOTAL				1964.34 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				275.99
	TOTAL				2240.34 (Y)
	Add CPOH @ 15% on "Y"				336.05
	Cost of 100 metre				2576.39
	Add 1% labour cess				25.76
	Rate		per 100 m		2602.10
18.80.7	300 mm diameter C.I.				
	Details of cost for 100 metres.				
	MATERIAL:				
	Bleaching powder				
	$3 \times (3.1416/4) \times (300/10)^2 \times (100 \times 100) / 1000 \times 0.5$				
	gms.				
	= 10602.88 gms Say 0.106 q				
1301	Bleaching powder	quintal	0.106	1800	190.80
	LABOUR:				
116	Fitter (grade 1)	day	1.64	420.00	688.80
114	Beldar	day	3.94	306.00	1205.64
9999	Sundries including testing of samples	L.S.	44.46	2.12	94.26
	TOTAL				2179.50
	Add Water Charges @ 1%				21.79
	TOTAL				2201.29 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				309.28
	TOTAL				2510.57 (Y)
	Add CPOH @ 15% on "Y"				376.59
	Cost of 100 metre				2887.16
	Add 1% labour cess				28.87
	Rate		per 100 m		2916.00
18.80.8	350 mm diameter C.I. pipe.				
	Details of cost for 100 metres.				
	MATERIAL:				
	Bleaching powder				
	$3 \times (3.1416/4) \times (350/10)^2 \times (100 \times 100) / 1000 \times 0.5$				
	gms.				
	= 14431.70 gms Say 0.144 q				
1301	Bleaching powder	quintal	0.144	1800	259.20
	LABOUR:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
116	Fitter (grade 1)	day	1.8	420.00	756.00
114	Beldar	day	4.27	306.00	1306.62
9999	Sundries including testing of samples	L.S.	48.36	2.12	102.52
	TOTAL				2424.34
	Add Water Charges @ 1%				24.24
	TOTAL				2448.59 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				344.03
	TOTAL				2792.61 (Y)
	Add CPOH @ 15% on "Y"				418.89
	Cost of 100 metre				3211.51
	Add 1% labour cess				32.12
	Rate		per 100 m		3243.60
18.80.9	400 mm diameter C.I. pipe.				
	Details of cost for 100 metres.				
	MATERIAL:				
	Bleaching powder				
	$3 \times (3.1416/4) \times (400/10)^2 \times (100 \times 100) / 1000 \times 0.5$				
	gms.				
	= 18849.60 gms Say 0.189 q				
1301	Bleaching powder	quintal	0.189	1800	340.20
	LABOUR:				
116	Fitter (grade 1)	day	1.97	420.00	827.40
114	Beldar	day	4.59	306.00	1404.54
9999	Sundries including testing of samples	L.S.	53.82	2.12	114.10
	TOTAL				2686.24
	Add Water Charges @ 1%				26.86
	TOTAL				2713.10 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				381.19
	TOTAL				3094.29 (Y)
	Add CPOH @ 15% on "Y"				464.14
	Cost of 100 metre				3558.44
	Add 1% labour cess				35.58
	Rate		per 100 m		3594.00
18.80.10	450 mm diameter C.I. pipe.				
	Details of cost for 100 metres.				
	MATERIAL:				
	Bleaching powder				
	$3 \times (3.1416/4) \times (450/10)^2 \times (100 \times 100) / 1000 \times 0.5$				
	gms.				
	= 23856.50 gms Say 0.239 q				
1301	Bleaching powder	quintal	0.239	1800	430.20
	LABOUR:				
116	Fitter (grade 1)	day	2.13	420.00	894.60
114	Beldar	day	4.92	306.00	1505.52
9999	Sundries including testing of samples	L.S.	58.24	2.12	123.47
	TOTAL				2953.79
	Add Water Charges @ 1%				29.54
	TOTAL				2983.33 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				419.16
	TOTAL				3402.48 (Y)
	Add CPOH @ 15% on "Y"				510.37
	Cost of 100 metre				3912.86
	Add 1% labour cess				39.13
	Rate		per 100 m		3952.00
18.80.11	500 mm diameter C.I. pipe.				
	Details of cost for 100 metres.				
	MATERIAL:				














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Bleaching powder $3 \times (3.1416/4) \times (500/10)^2 \times (100 \times 100) / 1000 \times 0.5$ gms. = 29452.40 gms Say 0.295 q				
1301	Bleaching powder	quintal	0.295	1800	531.00
	LABOUR:				
116	Fitter (grade 1)	day	2.3	420.00	966.00
114	Beldar	day	5.25	306.00	1606.50
9999	Sundries including testing of samples	L.S.	63.7	2.12	135.04
	TOTAL				3238.54
	Add Water Charges @ 1%				32.39
	TOTAL				3270.93 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				459.57
	TOTAL				3730.50 (Y)
	Add CPOH @ 15% on "Y"				559.57
	Cost of 100 metre				4290.07
	Add 1% labour cess				42.90
	Rate	per 100 m			4333.00
18.80.12	600 mm diameter C.I. pipe.				
	Details of cost for 100 metres.				
	MATERIAL:				
	Bleaching powder $3 \times (3.1416/4) \times (600/10)^2 \times (100 \times 100) / 100 \times 0.5$ gms = 42411.5 gms Say 0.424 q				
1301	Bleaching powder	quintal	0.424	1800	763.20
	LABOUR:				
116	Fitter (grade 1)	day	2.62	420.00	1100.40
114	Beldar	day	5.91	306.00	1808.46
9999	Sundries including testing of samples	L.S.	71.37	2.12	151.30
	TOTAL				3823.36
	Add Water Charges @ 1%				38.23
	TOTAL				3861.60 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				542.55
	TOTAL				4404.15 (Y)
	Add CPOH @ 15% on "Y"				660.62
	Cost of 100 metre				5064.78
	Add 1% labour cess				50.65
	Rate	per 100 m			5115.40
18.81	Extra for every operation of disinfecting the C.I. main by flushing with water containing bleaching powder @ 0.5 gms per litre of water and cleaning the same with fresh water, including getting the samples of water tested in the municipal laboratory.				
18.81.1	80 mm diameter C.I.				
	Details of cost for 100 metres.				
	MATERIAL:				
1301	Bleaching powder	quintal	0.003	1800	5.40
116	Fitter (grade 1)	day	0.11	420.00	46.20
114	Beldar	day	0.49	306.00	149.94
9999	Sundries including testing of samples	L.S.	4.42	2.12	9.37
	TOTAL				210.91
	Add Water Charges @ 1%				2.11
	TOTAL				213.02 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				29.93
	TOTAL				242.95 (Y)
	Add CPOH @ 15% on "Y"				36.44
	Cost of 100 metre				279.39
	Add 1% labour cess				2.79
	Rate	per 100 m			282.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.81.2	100 mm diameter C.I. pipe. Details of cost for 100 metres. MATERIAL:				
1301	Bleaching powder	quintal	0.004	1800	7.20
116	Fitter (grade 1)	day	0.16	420.00	67.20
114	Beldar	day	0.57	306.00	174.42
9999	Sundries including testing of samples	L.S.	4.42	2.12	9.37
	TOTAL				258.19
	Add Water Charges @ 1%				2.58
	TOTAL				260.77 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				36.64
	TOTAL				297.41 (Y)
	Add CPOH @ 15% on "Y"				44.61
	Cost of 100 metre				342.02
	Add 1% labour cess				3.42
	Rate	per 100 m			345.40
18.81.3	125 mm diameter C.I. pipe. Details of cost for 100 metres. MATERIAL:				
1301	Bleaching powder	quintal	0.006	1800	10.80
116	Fitter (grade 1)	day	0.22	420.00	92.40
114	Beldar	day	0.66	306.00	201.96
9999	Sundries including testing of samples	L.S.	5.46	2.12	11.58
	TOTAL				316.74
	Add Water Charges @ 1%				3.17
	TOTAL				319.90 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				44.95
	TOTAL				364.85 (Y)
	Add CPOH @ 15% on "Y"				54.73
	Cost of 100 metre				419.58
	Add 1% labour cess				4.20
	Rate	per 100 m			423.80
18.81.4	150 mm diameter C.I. pipe. Details of cost for 100 metres. MATERIAL:				
1301	Bleaching powder	quintal	0.009	1800	16.20
116	Fitter (grade 1)	day	0.27	420.00	113.40
114	Beldar	day	0.74	306.00	226.44
9999	Sundries including testing of samples	L.S.	7.15	2.12	15.16
	TOTAL				371.20
	Add Water Charges @ 1%				3.71
	TOTAL				374.91 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				52.67
	TOTAL				427.58 (Y)
	Add CPOH @ 15% on "Y"				64.14
	Cost of 100 metre				491.72
	Add 1% labour cess				4.92
	Rate	per 100 m			496.60
18.81.5	200 mm diameter C.I. pipe. Details of cost for 100 metres. MATERIAL:				
1301	Bleaching powder	quintal	0.016	1800	28.80
116	Fitter (grade 1)	day	0.58	420.00	243.60
114	Beldar	day	0.9	306.00	275.40
9999	Sundries including testing of samples	L.S.	9.88	2.12	20.95
	TOTAL				568.75
	Add Water Charges @ 1%				5.69








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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				574.43 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				80.71
	TOTAL				655.14 (Y)
	Add CPOH @ 15% on "Y"				98.27
	Cost of 100 metre				753.41
	Add 1% labour cess				7.53
	Rate		per 100 m		760.90
18.81.6	250 mm diameter C.I. pipe.				
	Details of cost for 100 metres.				
	MATERIAL:				
1301	Bleaching powder	quintal	0.025	1800	45.00
116	Fitter (grade 1)	day	0.6	420.00	252.00
114	Beldar	day	1.1	306.00	336.60
9999	Sundries including testing of samples	L.S.	10.79	2.12	22.87
	TOTAL				656.47
	Add Water Charges @ 1%				6.56
	TOTAL				663.04 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				93.16
	TOTAL				756.20 (Y)
	Add CPOH @ 15% on "Y"				113.43
	Cost of 100 metre				869.63
	Add 1% labour cess				8.70
	Rate		per 100 m		878.30
18.81.7	300 mm diameter C.I. pipe.				
	Details of cost for 100 metres.				
	MATERIAL:				
1301	Bleaching powder	quintal	0.035	1800	63.00
116	Fitter (grade 1)	day	0.6	420.00	252.00
114	Beldar	day	1.3	306.00	397.80
9999	Sundries including testing of samples	L.S.	13.52	2.12	28.66
	TOTAL				741.46
	Add Water Charges @ 1%				7.41
	TOTAL				748.88 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				105.22
	TOTAL				854.09 (Y)
	Add CPOH @ 15% on "Y"				128.11
	Cost of 100 metre				982.21
	Add 1% labour cess				9.82
	Rate		per 100 m		992.00
18.81.8	350 mm diameter C.I. pipe.				
	Details of cost for 100 metres.				
	MATERIAL:				
1301	Bleaching powder	quintal	0.048	1800	86.40
116	Fitter (grade 1)	day	0.7	420.00	294.00
114	Beldar	day	1.5	306.00	459.00
9999	Sundries including testing of samples	L.S.	16.12	2.12	34.17
	TOTAL				873.57
	Add Water Charges @ 1%				8.74
	TOTAL				882.31 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				123.96
	TOTAL				1006.27 (Y)
	Add CPOH @ 15% on "Y"				150.94
	Cost of 100 metre				1157.22
	Add 1% labour cess				11.57
	Rate		per 100 m		1168.80
18.81.9	400 mm diameter C.I. pipe.				
	Details of cost for 100 metres.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL:				
1301	Bleaching powder	quintal	0.063	1800	113.40
116	Fitter (grade 1)	day	0.8	420.00	336.00
114	Beldar	day	1.7	306.00	520.20
9999	Sundries including testing of samples	L.S.	17.94	2.12	38.03
	TOTAL				1007.63
	Add Water Charges @ 1%				10.08
	TOTAL				1017.71 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				142.99
	TOTAL				1160.70 (Y)
	Add CPOH @ 15% on "Y"				174.10
	Cost of 100 metre				1334.80
	Add 1% labour cess				13.35
	Rate		per 100 m		1348.10
18.81.10	450 mm diameter C.I. pipe.				
	Details of cost for 100 metres.				
	MATERIAL:				
1301	Bleaching powder	quintal	0.08	1800	144.00
116	Fitter (grade 1)	day	0.9	420.00	378.00
114	Beldar	day	1.9	306.00	581.40
9999	Sundries including testing of samples	L.S.	20.67	2.12	43.82
	TOTAL				1147.22
	Add Water Charges @ 1%				11.47
	TOTAL				1158.69 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				162.80
	TOTAL				1321.49 (Y)
	Add CPOH @ 15% on "Y"				198.22
	Cost of 100 metre				1519.71
	Add 1% labour cess				15.20
	Rate		per 100 m		1534.90
18.81.11	500 mm diameter C.I. pipe.				
	Details of cost for 100 metres.				
	MATERIAL:				
1301	Bleaching powder	quintal	0.098	1800	176.40
116	Fitter (grade 1)	day	1	420.00	420.00
114	Beldar	day	2.1	306.00	642.60
9999	Sundries including testing of samples	L.S.	23.27	2.12	49.33
	TOTAL				1288.33
	Add Water Charges @ 1%				12.88
	TOTAL				1301.22 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				182.82
	TOTAL				1484.04 (Y)
	Add CPOH @ 15% on "Y"				222.61
	Cost of 100 metre				1706.64
	Add 1% labour cess				17.07
	Rate		per 100 m		1723.70
18.81.12	600 mm diameter C.I. pipe.				
	Details of cost for 100 metres.				
	MATERIAL:				
1301	Bleaching powder	quintal	0.141	1800	253.80
116	Fitter (grade 1)	day	1.2	420.00	504.00
114	Beldar	day	2.5	306.00	765.00
9999	Sundries including testing of samples	L.S.	26	2.12	55.12
	TOTAL				1577.92
	Add Water Charges @ 1%				15.78
	TOTAL				1593.70 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				223.91














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1817.61 (Y)
	Add CPOH @ 15% on "Y"				272.64
	Cost of 100 metre				2090.26
	Add 1% labour cess				20.90
	Rate	per 100 m			2111.20
18.82	Dismantling old C.I. 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 metre.				
18.82.1	80 mm diameter C.I. pipe.				
	Details of cost for 40.26m or 11 nos. joints.				
	Earth work in excavation for dismantling pipes including refilling of excavated earth				
	1x40.26x55x0.75 m= 16.61 cum				
	Deduct for pipe				
	1x40.26x ¼ x 3.1416x(0.098)² = (-)0.30 cum				
	Total=16.31cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	16.31	379.87	6195.65 A
2.26	Rate as per Item Number 2.25 of SH: Earth work	cum	16.31	122.72	2001.55 A
	Breaking lead caulked joints' making blocks and stacking				
	MATERIAL:				
761	Fuel wood	quintal	0.373	500.00	186.50
771	Kerosene oil	litre	0.379	50.00	18.95
	LABOUR:				
117	Assistant Fitter or 2nd class Fitter	day	0.5	369.00	184.50
114	Beldar	day	4	306.00	1224.00
9999	Sundries and carriage	L.S.	53.82	2.12	114.10
	TOTAL				9925.25
	Add Water Charges @ 1% except on A i.e on				17.28
	TOTAL				9942.53 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				245.22
	TOTAL				10187.75 (Y)
	Add CPOH @ 15% on "Y"except A				298.58
	Cost of 40.26 metre				10486.33
	Cost of 1 metre				260.47
	Add 1% labour cess				2.60
	Rate	per m			263.10
18.82.2	100 mm diameter C.I. pipe.				
	Details of cost for 40.26m or 11 nos. joints.				
	Earth work in excavation for dismantling pipes including refilling of excavated earth				
	1x40.26x55x0.75 m=16.61 cum				
	Deduct for pipe				
	1x40.26x ¼ x 3.1416x(0.098)² = (-)0.44				
	Total = 16.17 cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	16.17	379.87	6142.47 A
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	16.17	122.72	1984.37 A
	Breaking lead caulked joints, making blockst and stacking				
	MATERIAL:				
761	Fuel wood	quintal	0.466	500	233.00
771	Kerosene oil	litre	0.379	50	18.95
	LABOUR:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
117	Assistant Fitter or 2nd class Fitter	day	0.63	369.00	232.47
114	Beldar	day	4.5	306.00	1377.00
9999	Sundries and carriage	L.S.	53.82	2.12	114.10
	TOTAL				10102.36
	Add Water Charges @ 1% except on A i.e on				19.76
	TOTAL				10122.12 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				280.34
	TOTAL				10402.45 (Y)
	Add CPOH @ 15% on "Y" except A				341.34
	Cost of 40.26 metre				10743.79
	Cost of 1 metre				266.86
	Add 1% labour cess				2.67
	Rate	per m			269.50
18.82.3	125 mm diameter C.I. pipe.				
	Details of cost for 40.26m or 11 nos. joints.				
	Earth work in excavation for dismantling pipes including refilling of excavated earth				
	1x40.26x55x0.75 m= 16.61 cum				
	Deduct for pipe				
	1x40.26x ¼ x 3.1416 x (0.144)² = (-) 0.65cum				
	Total=15.96cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	15.96	379.87	6062.70 A
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	15.96	122.72	1958.60 A
	Breaking lead caulked joints, making blockst and stacking				
	MATERIAL:				
761	Fuel wood	quintal	0.559	500	279.50
771	Kerosene oil	litre	0.568	50	28.40
	LABOUR:				
117	Assistant Fitter or 2nd class Fitter	day	0.75	369.00	276.75
114	Beldar	day	5	306.00	1530.00
9999	Sundries and carriage	L.S.	53.82	2.12	114.10
	TOTAL				10250.05
	Add Water Charges @ 1% except on A i.e on				22.29
	TOTAL				10272.34 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				316.27
	TOTAL				10588.61 (Y)
	Add CPOH @ 15% on "Y" except A				385.10
	Cost of 40.26 metre				10973.70
	Cost of 1 metre				272.57
	Add 1% labour cess				2.73
	Rate	per m			275.30
18.82.4	150 mm diameter C.I. pipe.				
	Details of cost for 40.26m or 11 nos. joints.				
	Earth work in excavation for dismantling pipes including refilling of excavated earth				
	1x40.26x55x0.75 m= 16.61 cum				
	Deduct for pipe				
	1x40.26x 3.1416 x (0.17)²/4 = (-) 0.91 cum				
	Total Qty=16.61-0.91=15.70 cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	15.7	379.87	5963.93 A
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	15.7	122.72	1926.69 A














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Breaking lead caulked joints,making blockst and stacking				
	MATERIAL:				
761	Fuel wood	quintal	0.653	500	326.50
771	Kerosene oil	litre	0.568	50	28.40
	LABOUR:				
117	Assistant Fitter or 2nd class Fitter	day	0.88	369.00	324.72
114	Beldar	day	5.5	306.00	1683.00
9999	Sundries and carriage	L.S.	67.21	2.12	142.49
	TOTAL				10395.73
	Add Water Charges @ 1% except on A i.e on				25.05
	TOTAL				10420.78 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				355.49
	TOTAL				10776.27 (Y)
	Add CPOH @ 15% on "Y"except A				432.85
	Cost of 40.26 metre				11209.12
	Cost of 1 metre				278.42
	Add 1% labour cess				2.78
	Rate	per m			281.20
18.82.5	200 mm diameter C.I. pipe.				
	Details of cost for 40.26m or 11 nos. joints.				
	Earth work in excavationfor dismantling pipes including refilling of excavated earth				
	1x40.26x60x0.75 m=18.12 cum = 16.56 cum				
	Deduct for pipe				
	1x40.26x 3.1416 x (0.222) ² /4 = (-) 1.56cum				
	Total=16.56cum				
2.8.1	Rate as per Item Number 2.8.1 of	cum	16.56	379.87	6290.62 A
	SH: Earth work				
2.25	Rate as per Item Number 2.25 of	cum	16.56	122.72	2032.23 A
	SH: Earth work				
	Breaking lead caulked joints,making blockst and stacking				
	MATERIAL:				
761	Fuel wood	quintal	0.84	500	420.00
771	Kerosene oil	litre	0.7576	50	37.88
	LABOUR:				
117	Assistant Fitter or 2nd class Fitter	day	1.1	369.00	405.90
114	Beldar	day	6.5	306.00	1989.00
9999	Sundries and carriage	L.S.	67.21	2.12	142.49
	TOTAL				11318.12
	Add Water Charges @ 1% except on A i.e on				29.95
	TOTAL				11348.07 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				425.04
	TOTAL				11773.11 (Y)
	Add CPOH @ 15% on "Y"except A				517.54
	Cost of 40.26 metre				12290.65
	Cost of 1 metre				305.28
	Add 1% labour cess				3.05
	Rate	per m			308.30
18.82.6	250 mm diameter C.I. pipe.				
	Details of cost for 40.26m or 11 nos. joints.				
	Earth work in excavationfor dismantling pipes including refilling of excavated earth				
	1x40.26x.65x0.75m= 19.63				
	Deduct for pipe				
	1x40.26x 3.1416 x (0.274) ² / 4 = (-) 2.37 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 17.26 cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	17.26	379.87	6556.53 A
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	17.26	122.72	2118.14 A
	Breaking lead caulked joints,making blockst and stacking				
	MATERIAL:				
761	Fuel wood	quintal	1.026	500	513.00
771	Kerosene oil	litre	1.1365	50	56.83
	LABOUR:				
117	Assistant Fitter or 2nd class Fitter	day	1.3	369.00	479.70
114	Beldar	day	7.5	306.00	2295.00
9999	Sundries and carriage	L.S.	80.73	2.12	171.15
	TOTAL				12190.34
	Add Water Charges @ 1% except on A i.e on TOTAL				35.16
	Add GST 12% on "X" except A (multiplying factor 0.1405)				498.89
	TOTAL				12724.38 (Y)
	Add CPOH @ 15% on "Y"except A				607.46
	Cost of 40.26 metre				13331.84
	Cost of 1 metre				331.14
	Add 1% labour cess				3.31
	Rate	per m			334.50
18.82.7	300 mm diameter C.I. pipe.				
	Details of cost for 40.26m or 11 nos. joints.				
	Earth work in excavationfor dismantling pipes including refilling of excavated earth				
	1x40.26x.65x0.75m= 19.63 = 21.14 cum				
	Deduct for pipe				
	1x40.26x ¼ x 3.1416 x (0.326)²= (-) 3.36 cum				
	Total = 17.79 cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	17.79	379.87	6757.86 A
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	17.79	122.72	2183.18 A
	Breaking lead caulked joints,making blockst and stacking				
	MATERIAL:				
761	Fuel wood	quintal	1.12	500	560.00
771	Kerosene oil	litre	1.515	50	75.75
	LABOUR:				
117	Assistant Fitter or 2nd class Fitter	day	1.5	369.00	553.50
114	Beldar	day	8.5	306.00	2601.00
9999	Sundries and carriage	L.S.	94.12	2.12	199.53
	TOTAL				12930.82
	Add Water Charges @ 1% except on A i.e on TOTAL				39.90
	Add GST 12% on "X" except A (multiplying factor 0.1405)				566.17
	TOTAL				13536.89 (Y)
	Add CPOH @ 15% on "Y"except A				689.38
	Cost of 40.26 metre				14226.27
	Cost of 1 metre				353.36
	Add 1% labour cess				3.53
	Rate	per m			356.90
18.82.8	350 mm diameter C.I. pipe.				
	Details of cost for 40.26m or 11 nos. joints.				









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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Earth work in excavation for dismantling pipes including refilling of excavated earth 1x40.26x.75x0.75 m=22.65 cum Deduct for pipe 1x40.26x ¼ x 3.1416 x (0.378)² = (-) 4.51cum Total = 18.14 cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	18.14	379.87	6890.81 A
2.25	Rate as per Item Number 2.25 of SH: Earth work Breaking lead caulked joints, making blockst and stacking MATERIAL:	cum 1	18.14	122.72	2226.13 A
761	Fuel wood	quintal	1.213	500	606.50
771	Kerosene oil	litre	1.515	50	75.75
	LABOUR:				
117	Assistant Fitter or 2nd class Fitter	day	1.75	369.00	645.75
114	Beldar	day	9.5	306	2907.00
9999	Sundries and carriage	L.S.	107.64	2.12	228.20
	TOTAL				13580.14
	Add Water Charges @ 1% except on A i.e on TOTAL				44.63
	Add GST 12% on "X" except A (multiplying factor 0.1405)				13624.77 (X)
	TOTAL				633.35
	Add CPOH @ 15% on "Y" except A				14258.12 (Y)
	Cost of 40.26 metre				771.18
	Cost of 1 metre				15029.30
	Add 1% labour cess				373.31
	Rate	per m			3.73
18.82.9	400 mm diameter C.I. pipe. Details of cost for 40.26m or 11 nos. joints. Earth work in excavation for dismantling pipes including refilling of excavated earth 1x40.26x.80x0.75 m=24.16 cum Deduct for pipe 1x40.26x ¼ x 3.1416 x (0.429)² = (-) 5.93cum Total = 18.23 cum				377.00
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	18.23	379.87	6925.00 A
2.25	Rate as per Item Number 2.25 of SH: Earth work Breaking lead caulked joints, making blockst and stacking MATERIAL:	cum	18.23	122.72	2237.17 A
761	Fuel wood	quintal	1.306	500	653.00
771	Kerosene oil	litre	1.894	50	94.70
	LABOUR:				
117	Assistant Fitter or 2nd class Fitter	day	2	369.00	738.00
114	Beldar	day	10.5	306.00	3213.00
9999	Sundries and carriage	L.S.	121.03	2.12	256.58
	TOTAL				14117.46
	Add Water Charges @ 1% except on A i.e on TOTAL				49.55
	Add GST 12% on "X" except A (multiplying factor 0.1405)				14167.01 (X)
	TOTAL				703.18
	Add CPOH @ 15% on "Y" except A				14870.19 (Y)
	Cost of 40.26 metre				856.20
					15726.39

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 1 metre				390.62
	Add 1% labour cess				3.91
	Rate		per m		394.50
18.82.10	450 mm diameter C.I. pipe.				
	Details of cost for 40.26m or 11 nos. joints.				
	Earth work in excavation for dismantling pipes including refilling of excavated earth				
	1x40.26x.85x0.75 m=25.67 cum.				
	Deduct for pipe				
	1x40.26x ¼ x 3.1416 x (0.48)² = (-) 7.29cum				
	Total =18.38 cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	18.38	379.87	6981.98 A
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	18.38	122.72	2255.58 A
	Breaking lead caulked joints,making blockst and stacking				
	MATERIAL:				
761	Fuel wood	quintal	1.4	500	700.00
771	Kerosene oil	litre	2.273	50	113.65
	LABOUR:				
117	Assistant Fitter or 2nd class Fitter	day	2.25	369.00	830.25
114	Beldar	day	11.5	306.00	3519.00
9999	Sundries and carriage	L.S.	134.55	2.12	285.25
	TOTAL				14685.71
	Add Water Charges @ 1% except on A i.e on				54.48
	TOTAL				14740.19 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				773.12
	TOTAL				15513.31 (Y)
	Add CPOH @ 15% on "Y"except A				941.36
	Cost of 40.26 metre				16454.67
	Cost of 1 metre				408.71
	Add 1% labour cess				4.09
	Rate		per m		412.80
18.82.11	500 mm diameter C.I. pipe.				
	Details of cost for 40.26m or 11 nos. joints.				
	Earth work in excavation for dismantling pipes including refilling of excavated earth				
	1x40.26x.90x0.75m=27.18cum				
	Deduct for pipe				
	1x40.26x ¼ x 3.1416 x (0.532)² = (-) 8.94cum				
	Total = 18.24cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	18.24	379.87	6928.80 A
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	18.24	122.72	2238.40 A
	Breaking lead caulked joints,making blockst and stacking				
	MATERIAL:				
761	Fuel wood	quintal	1.492	500	746.00
771	Kerosene oil	litre	2.652	50	132.60
	LABOUR:				
117	Assistant Fitter or 2nd class Fitter	day	2.5	369.00	922.50
114	Beldar	day	12.5	306	3825.00
9999	Sundries and carriage	L.S.	147.94	2.12	313.63
	TOTAL				15106.93
	Add Water Charges @ 1% except on A i.e on				59.40














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				15166.33 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				842.88
	TOTAL				16009.21 (Y)
	Add CPOH @ 15% on "Y" except A				1026.30
	Cost of 40.26 metre				17035.51
	Cost of 1 metre				423.14
	Add 1% labour cess				4.23
	Rate	per m			427.40
18.82.12	600 mm diameter C.I. pipe.				
	Details of cost for 40.26m or 11 nos. joints.				
	Earth work in excavation for dismantling pipes including refilling of excavated earth				
	1x40.26x1.00x0.75 m=30.20 cum				
	Deduct for pipe				
	1x40.26x ¼ x 3.1416 x (0.635)² = (-) 12.76cum				
	Total = 17.44 cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	17.44	379.87	6624.90 A
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	17.44	122.72	2140.23 A
	Breaking lead caulked joints, making blockst and stacking				
	MATERIAL:				
761	Fuel wood	quintal	1.68	500	840.00
771	Kerosene oil	litre	3.41	50	170.50
	LABOUR:				
117	Assistant Fitter or 2nd class Fitter	day	3	369.00	1107.00
114	Beldar	day	14.5	306	4437.00
9999	Sundries and carriage	L.S.	174.85	2.12	370.68
	TOTAL				15690.31
	Add Water Charges @ 1% except on A i.e on				69.25
	TOTAL				15759.56 (X)
	Add GST 12% on "X" except A (multiplying factor 0.1405)				982.72
	TOTAL				16742.28 (Y)
	Add CPOH @ 15% on "Y" except A				1196.57
	Cost of 40.26 metre				17938.85
	Cost of 1 metre				445.58
	Add 1% labour cess				4.46
	Rate	per m			450.00
18.83	Labour for cutting C.I. pipe with steel saw.				
18.83.1	80 mm diameter C.I. pipe.				
	Details of cost for one cut.				
	LABOUR:				
116	Fitter (grade 1)	day	0.06	420.00	25.20
114	Beldar	day	0.06	306.00	18.36
9999	Sundries	L.S.	1.82	2.12	3.86
	TOTAL				47.42
	Add Water Charges @ 1%				0.47
	TOTAL				47.89 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				6.73
	TOTAL				54.62 (Y)
	Add CPOH @ 15% on "Y"				8.19
	Cost of each cut				62.81
	Add 1% labour cess				0.63
	Rate	Each			63.40
18.83.2	100 mm diameter C.I. pipe.				
	Details of cost for one cut.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
116	Fitter (grade 1)	day	0.08	420.00	33.60
114	Beldar	day	0.08	306.00	24.48
9999	Sundries	L.S.	2.73	2.12	5.79
	TOTAL				63.87
	Add Water Charges @ 1%				0.64
	TOTAL				64.51 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				9.06
	TOTAL				73.57 (Y)
	Add CPOH @ 15% on "Y"				11.04
	Cost of each cut				84.60
	Add 1% labour cess				0.85
	Rate		Each		85.50
18.83.3	125 mm diameter C.I. pipe.				
	Details of cost for one cut.				
	LABOUR:				
116	Fitter (grade 1)	day	0.11	420.00	46.20
114	Beldar	day	0.11	306	33.66
9999	Sundries	L.S.	4.42	2.12	9.37
	TOTAL				89.23
	Add Water Charges @ 1%				0.89
	TOTAL				90.12 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				12.66
	TOTAL				102.78 (Y)
	Add CPOH @ 15% on "Y"				15.42
	Cost of each cut				118.20
	Add 1% labour cess				1.18
	Rate		Each		119.40
18.83.4	150 mm diameter C.I. pipe.				
	Details of cost for one cut.				
	LABOUR:				
116	Fitter (grade 1)	day	0.15	420.00	63.00
114	Beldar	day	0.15	306	45.90
9999	Sundries	L.S.	5.33	2.12	11.30
	TOTAL				120.20
	Add Water Charges @ 1%				1.20
	TOTAL				121.40 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				17.06
	TOTAL				138.46 (Y)
	Add CPOH @ 15% on "Y"				20.77
	Cost of each cut				159.23
	Add 1% labour cess				1.59
	Rate		Each		160.80
18.83.5	200 mm diameter C.I. pipe.				
	Details of cost for one cut.				
	LABOUR:				
116	Fitter (grade 1)	day	0.2	420.00	84.00
114	Beldar	day	0.2	306.00	61.20
9999	Sundries	L.S.	7.15	2.12	15.16
	TOTAL				160.36
	Add Water Charges @ 1%				1.60
	TOTAL				161.96 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				22.76
	TOTAL				184.72 (Y)
	Add CPOH @ 15% on "Y"				27.71
	Cost of each cut				212.42
	Add 1% labour cess				2.12
	Rate		Each		214.50







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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.83.6	250 mm diameter C.I. pipe.				
	Details of cost for one cut.				
	LABOUR:				
116	Fitter (grade 1)	day	0.25	420.00	105.00
114	Beldar	day	0.25	306.00	76.50
9999	Sundries	L.S.	8.06	2.12	17.09
	TOTAL				198.59
	Add Water Charges @ 1%				1.99
	TOTAL				200.57 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				28.18
	TOTAL				228.75 (Y)
	Add CPOH @ 15% on "Y"				34.31
	Cost of each cut				263.07
	Add 1% labour cess				2.63
	Rate	Each			265.70
18.83.7	300 mm diameter C.I. pipe.				
	Details of cost for one cut.				
	LABOUR:				
116	Fitter (grade 1)	day	0.3	420.00	126.00
114	Beldar	day	0.3	306.00	91.80
9999	Sundries	L.S.	9.88	2.12	20.95
	TOTAL				238.75
	Add Water Charges @ 1%				2.39
	TOTAL				241.13 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				33.88
	TOTAL				275.01 (Y)
	Add CPOH @ 15% on "Y"				41.25
	Cost of each cut				316.26
	Add 1% labour cess				3.16
	Rate	Each			319.40
18.83.8	350 mm diameter C.I. pipe.				
	Details of cost for one cut.				
	LABOUR:				
116	Fitter (grade 1)	day	0.35	420.00	147.00
114	Beldar	day	0.35	306.00	107.10
9999	Sundries	L.S.	10.79	2.12	22.87
	TOTAL				276.97
	Add Water Charges @ 1%				2.77
	TOTAL				279.74 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				39.30
	TOTAL				319.05 (Y)
	Add CPOH @ 15% on "Y"				47.86
	Cost of each cut				366.91
	Add 1% labour cess				3.67
	Rate	Each			370.60
18.83.9	400 mm diameter C.I. pipe.				
	Details of cost for one cut.				
	LABOUR:				
116	Fitter (grade 1)	day	0.4	420.00	168.00
114	Beldar	day	0.4	306.00	122.40
9999	Sundries	L.S.	12.48	2.12	26.46
	TOTAL				316.86
	Add Water Charges @ 1%				3.17
	TOTAL				320.03 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				44.96
	TOTAL				364.99 (Y)
	Add CPOH @ 15% on "Y"				54.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of each cut				419.74
	Add 1% labour cess				4.20
	Rate	Each			423.90
18.83.10	450 mm diameter C.I. pipe.				
	Details of cost for one cut.				
	LABOUR:				
116	Fitter (grade 1)	day	0.45	420.00	189.00
114	Beldar	day	0.45	306.00	137.70
9999	Sundries	L.S.	13.52	2.12	28.66
	TOTAL				355.36
	Add Water Charges @ 1%				3.55
	TOTAL				358.92 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				50.43
	TOTAL				409.34 (Y)
	Add CPOH @ 15% on "Y"				61.40
	Cost of each cut				470.75
	Add 1% labour cess				4.71
	Rate	Each			475.50
18.83.11	500 mm diameter C.I. pipe.				
	Details of cost for one cut.				
	LABOUR:				
116	Fitter (grade 1)	day	0.5	420.00	210.00
114	Beldar	day	0.5	306	153.00
9999	Sundries	L.S.	15.21	2.12	32.25
	TOTAL				395.25
	Add Water Charges @ 1%				3.95
	TOTAL				399.20 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				56.09
	TOTAL				455.28 (Y)
	Add CPOH @ 15% on "Y"				68.29
	Cost of each cut				523.58
	Add 1% labour cess				5.24
	Rate	Each			528.80
18.83.12	600 mm diameter C.I. pipe.				
	Details of cost for one cut.				
	LABOUR:				
116	Fitter (grade 1)	day	0.6	420.00	252.00
114	Beldar	day	0.6	306	183.60
9999	Sundries	L.S.	16.12	2.12	34.17
	TOTAL				469.77
	Add Water Charges @ 1%				4.70
	TOTAL				474.47 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				66.66
	TOTAL				541.14 (Y)
	Add CPOH @ 15% on "Y"				81.17
	Cost of each cut				622.31
	Add 1% labour cess				6.22
	Rate	Each			628.50
18.84	Providing & fixing chrome plated brass battery based infrared sensor operated pillar cock, having foam flow technology.				
18.84.1	15 mm nominal bore.				
	Details of cost for one No.				
	MATERIAL:				
3327	15 mm Battery Based Sensor Pillar Cock	each	1	6000.00	6000.00
9999	Carriage of material and fixing charges	L.S.	8.06	2.12	17.09
	TOTAL				6017.09
	Add Water Charges @ 1%				60.17














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				6077.26 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				853.85
	TOTAL				6931.11 (Y)
	Add CPOH @ 15% on "Y"				1039.67
	Cost of each				7970.78
	Add 1% labour cess				79.71
	Rate	Each			8050.50
18.85	Providing and fixing Stainless Steel pipe and fitting of grade AISI 304 as per JIS standard 3448 complete with press type fitting (fitting shall be paid for separately)i/c fixing of the pipe with clamps at 1.00 m spacing including cutting and making good the walls including testing of joints complete as per direction of Engineer -in-charge. (The pipe length inserted in the fitting shall not be measured for payment).Inernal work - Exposed on wall.				
18.85.1	15.88 mm outer dia pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
8779	SS pipe 304 grades with press fit technology as per JIS 3448 standard 15.88 mm outer dia	metre	10	140.00	1400.00 X
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.003	145.72	0.44
	Add 3% for pipe inserted into fitting and wastage etc. on X on X = 3 X 1400 / 100=42				42.00
9999	Cement , sand and grit etc.	L.S.	2.73	2.12	5.79
	Add 2% for special T&P and sundries etc. on X on X = 2 X 1400 / 100=28				28.00
	LABOUR:				
'0116	Fitter (grade 1)	day	0.33	420.00	138.60
0117	Assistant Fitter or 2nd class Fitter	day	0.66	223.00	147.18
'0114	Beldar	day	0.66	306.00	201.96
	TOTAL				1963.97
	Add Water Charges @ 1%				19.64
	TOTAL				1983.61 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				278.70
	TOTAL				2262.30 (Y)
	Add CPOH @ 15% on "Y"				339.35
	Cost of 10 metre				2601.65
	Cost of 1 metre				260.16
	add 1% labour cess				2.60
	Say	per m			262.80
18.85.2	22.22 mm outer dia Pipe.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 metre.				
	MATERIAL:				
8780	SS pipe 304 grades with press fit technology as per JIS 3448 standard 22.22 mm outer dia	metre	10	250.00	2500.00 X
	Add 3% for pipe inserted into fitting and wastage etc. on X on X = 3 X 2500 / 100=75				75.00
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.00529	145.72	0.77
9999	Cement , sand and grit etc.	L.S.	2.73	2.12	5.79
	Add 2% for special T&P and sundries etc. on X on X = 2 X 2500 / 100=50				50.00
	LABOUR:				
'0116	Fitter (grade 1)	day	0.33	420.00	138.60
0117	Assistant Fitter or 2nd class Fitter	day	0.66	223.00	147.18
'0114	Beldar	day	0.66	306.00	201.96
	TOTAL				3119.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Water Charges @ 1%				31.19
	TOTAL				3150.49 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				442.64
	TOTAL				3593.14 (Y)
	Add CPOH @ 15% on "Y"				538.97
	Cost of 10 metre				4132.11
	Cost of 1 metre				413.21
	add 1% labour cess				4.13
	Say				417.30
18.85.3	28.58 mm outer dia Pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
8781	SS pipe 304 grades with press fit technology as per JIS 3448 standard 28.58 mm outer dia	metre	10	310.00	3100.00 X
	Add 3% for pipe inserted into fitting and wastage etc. on X				
	on X = 3 X 3100 / 100=93				93.00
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.0069	145.72	1.00
9999	Cement , sand and grit etc.	L.S.	4.16	2.12	8.82
	Add 2% for special T&P and sundries etc. on X				
	on X = 2 X 3100 / 100=62				62.00
	LABOUR:				
0116	Fitter (grade 1)	day	0.33	420.00	138.60
0117	Assistant Fitter or 2nd class Fitter	day	0.66	223.00	147.18
0114	Beldar	day	0.66	306.00	201.96
	TOTAL				3752.56
	Add Water Charges @ 1%				37.53
	TOTAL				3790.09 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				532.51
	TOTAL				4322.59 (Y)
	Add CPOH @ 15% on "Y"				648.39
	Cost of 10 metre				4970.98
	Cost of 1 metre				497.10
	add 1% labour cess				4.97
	Say				502.10
18.85.4	34.00 mm outer dia Pipe.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 metre.				
	MATERIAL:				
8782	SS pipe 304 grades with press fit technology as per JIS 3448 standard 34.00 mm outer dia	metre	10	439.50	4395.00 X
	Add 3% for pipe inserted into fitting and wastage etc. on X				
	on X = 3 X 4395 / 100=131.85				131.85
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.0098	145.72	1.43
9999	Cement , sand and grit etc.	L.S.	4.16	2.12	8.82
	Add 2% for special T&P and sundries etc. on X				
	on X = 2 X 4395 / 100=87.9				87.90
	LABOUR:				
0116	Fitter (grade 1)	day	0.33	420.00	138.60
0117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
0114	Beldar	day	0.66	306.00	201.96
	TOTAL				5209.10
	Add Water Charges @ 1%				52.09
	TOTAL				5261.19 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				739.20














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				6000.39 (Y)
	Add CPOH @ 15% on "Y"				900.06
	Cost of 10 metre				6900.44
	Cost of 1 metre				690.04
	add 1% labour cess				6.90
	Say	per m			696.90
18.85.5	42.70 mm outer dia Pipe.				
	Details of cost for 10 metre.				
	MATERIAL:				
8783	SS pipe 304 grades with press fit technology as per JIS 3448 standard 42.70 mm outer dia	metre	10	450.00	4500.00 X
	Add 3% for pipe inserted into fitting and wastage etc. on X				
	on X = 3 X 4500 / 100=135				135.00
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.0124	145.72	1.81
9999	Cement , sand and grit etc.	L.S.	5.33	2.12	11.30
	Add 2% for special T&P and sundries etc. on X				
	on X = 2 X 4500 / 100=90				90.00
	LABOUR:				
0116	Fitter (grade 1)	day	0.33	420.00	138.60
0117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
0114	Beldar	day	0.66	306.00	201.96
	TOTAL				5322.21
	Add Water Charges @ 1%				53.22
	TOTAL				5375.43 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				755.25
	TOTAL				6130.68 (Y)
	Add CPOH @ 15% on "Y"				919.60
	Cost of 10 metre				7050.28
	Cost of 1 metre				705.03
	add 1% labour cess				7.05
	Say				712.10
18.85.6	48.60 mm outer dia Pipe.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10 metre.				
	MATERIAL:				
8701	SS pipe 304 grades with press fit technology as per JIS 3448 standard 48.60 mm outer dia	metre	10	620.00	6200.00 X
	Add 3% for pipe inserted into fitting and wastage etc. on X				
	on X = 3 X 6200 / 100=186				186.00
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.0142	145.72	2.07
9999	Cement , sand and grit etc.	L.S.	5.33	2.12	11.30
	Add 2% for special T&P and sundries etc. on X =2 X 6200 / 100=124				124.00
	LABOUR:				
0116	Fitter (grade 1)	day	0.33	420.00	138.60
0117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
0114	Beldar	day	0.66	306.00	201.96
	TOTAL				7107.47
	Add Water Charges @ 1%				71.07
	TOTAL				7178.54 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				1008.59
	TOTAL				8187.13 (Y)
	Add CPOH @ 15% on "Y"				1228.07

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10.00 metre				9415.20
	Cost of 1 metre				941.52
	add 1% labour cess				9.42
	Say				950.90
18.85A	Providing and fixing Stainless Steel pipes and fittings of grade 316L as per IS 6911:2017 and conforming to EN-10312 standards complete with press type fitting (fitting shall be paid for separately) i/c fixing of the pipe with clamps at 1.00 m spacing including cutting and making good the walls including testing of joints complete as per direction of Engineer-in-charge. (The pipe length inserted in the fitting shall not be measured for payment)				
	Internal work - Exposed on wall				
18.85A.1	15 mm outer dia pipe				
	Details of cost for 10 metre				
	MATERIAL				
3862	SS pipe 316L grade as per IS 6911:2017 with metre press fit technology conforming to EN-10312 standards 15 mm outer dia'		10	310.00	3100.00 P
2272	Carriage of Stainless Steel pipes below 100 tonne mm dia		0.003	145.72	0.51
	Add 3% for pipe inserted into fitting and wastage etc. on P				93.00
9999	Cement, sand and grit	LS.	2.73	2.12	5.79
	Add 2% for special T&P and sundries etc. on P				62.00
	2xP/ 100				
	LABOUR				
0116	Fitter (grade 1)	day	0.33	420.00	138.60
0117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
0114	Beldar	day	0.66	306.00	201.96
	TOTAL				3845.39 W
	Add 1 % Water charges on "W"				38.45
	TOTAL				3883.85 X
	Add GST on "X" (multiplying factor 0.1405)				545.68
	TOTAL				4429.53 Y
	Add 15% CPOH on "y"				664.43
	TOTAL				5093.96 Z
	Add Cess @ 1% on "Z"				50.94
	Cost of 10 metre				5144.90
	Cost of 1 metre				514.49
	Say				
	Per Mtr				514.50
18.85A.2	22 mm outer dia Pipe				
	Details of cost for 10 metre				
	MATERIAL				
3863	SS pipe 316L grade as per IS 6911:2017 with metre press fit technology conforming to EN-10312 standards 22 mm outer dia	metre	10	500.00	5000.00 p
2272	Carriage of Stainless Steel pipes below 100 tonne mm dia	tonne	0.00619	145.72	0.90
	Add 3% for pipe inserted into fitting and wastage etc. on P				150.00
	3 xP/ 100				
9999	Cement, sand and grit	L.S.	2.73	2.12	5.79
	Add 2% for special T&P and sundries etc. on P				100.00
	2xP/ 100				
	LABOUR				














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0116	Fitter (grade 1)	day	0.33	420.00	138.60
0117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
0114	Beldar	day	0.66	306.00	201.96
	TOTAL				5840.79 W
	Add 1 % Water charges on "W"				58.41
	TOTAL				5899.20 X
	Add GST on "X" (multiplying factor 0.1405)				828.84
	TOTAL				6728.03 Y
	Add 15% CPOH on "y"				1009.21
	TOTAL				7737.24 Z
	Add Cess @ 1% on "Z"				77.37
	Cost of 10 metre				7814.61
	Cost of 1 metre				781.46
	Say		Per Mtr		781.50
18.85A.3	28 mm outer dia Pipe				
	Details of cost for 10 metre				
	MATERIAL				
3864	SS pipe 316L grade as per IS 6911:2017 with press fit technology conforming to EN-10312 standards 28 mm outer dia	metre	10	650.00	6500.00 p
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.00798	145.72	1.16
	Add 3% for pipe inserted into fitting and wastage etc. on P				195.00
	3xP/ 100				
	Cement, sand and grit	LS.	4.16	2.12	8.82
	Add 2% for special T&P and sundries etc. On P				130.00
	2xP/ 100				
	LABOUR				
0116	Fitter (grade 1)	day	0.33	420.00	138.60
0117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
0114	Beldar	day	0.66	306.00	201.96
	TOTAL				7419.08 W
	Add 1 % Water charges on "W"				74.19
	TOTAL				7493.27 X
	Add GST on "X" (multiplying factor 0.1405)				1052.80
	TOTAL				8546.08 Y
	Add 15% CPOH on "y"				1281.91
	TOTAL				9827.99 Z
	Add Cess @ 1% on "Z"				98.28
	Cost of 10 metre				9926.27
	Cost of 1 metre				992.63
	Say		Per Mtr		992.60
18.85A.4	35 mm outer dia Pipe				
	Details of cost for 10 metre				
	MATERIAL				
3865	SS pipe 316L grade as per IS 6911:2017 with press fit technology conforming to EN-10312 standards 35 mm outer dia		10	945.00	9450.00
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.01246	145.72	1.82
	Add 3% for pipe inserted into fitting and wastage etc. on P				283.50
	3xP/ 100				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Cement, sand and grit	LS.	4.16	2.12	8.82
	Add 2% for special T&P and sundries etc. on P				189.00
	2xP/ 100				
	LABOUR				
0116	Fitter (grade 1)	day	0.33	420.00	138.60
0117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
0114	Beldar	day	0.66	306.00	201.96
	TOTAL				10517.23 w
	Add 1 % Water charges on "W"				105.17
	TOTAL				10622.41 X
	Add GST on "X" (multiplying factor 0.1405)				1492.45
	TOTAL				12114.86 y
	Add 15% CPOH on "y"				1817.23
	TOTAL				13932.08 z
	Add Cess @ 1% on "Z"				139.32
	Cost of 10 metre				14071.40
	Cost of 1 metre				1407.14
	Say		Per Mtr		1407.10
18.85A.5	42 mm outer dia Pipe				
	Details of cost for 10 metre				
	MATERIAL				
3866	SS pipe 316L grade as per IS 6911:2017 with metre		10	1160.00	11600.00 F
	press fit technology conforming to EN-10312				
	standards 42 mm outer dia				
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.0151	145.72	2.20
	Add 3% for pipe inserted into fitting and				348.00
	wastage etc. on P				
	3xP/ 100				
9999	Cement, sand and grit	LS.	5.33	2.12	11.30
	Add 2% for special T&P and sundries etc. on P				232.00
	2xP/ 100				
	LABOUR				
0116	Fitter (grade 1)	day	0.33	420.00	138.60
0117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
0114	Beldar	day	0.66	306.00	201.96
	TOTAL				12777.60 w
	Add 1 % Water charges on "W"				127.78
	TOTAL				12905.38 X
	Add GST on "X" (multiplying factor 0.1405)				1813.21
	TOTAL				14718.58 y
	Add 15% CPOH on "y"				2207.79
	TOTAL				16926.37 z
	Add Cess @ 1% on "Z"				169.26
	Cost of 10 metre				17095.63
	Cost of 1 metre				1709.56
	Say		Per Mtr		1709.60
18.85A.6	54 mm outer dia Pipe				
	Details of cost for 10 metre				
	MATERIAL				
3867	SS pipe 316L grade as per IS 6911:2017 with metre		10	1500.00	15000.00 p
	press fit technology conforming to EN-10312				
	standards 54 mm outer dia				
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.01953	145.72	2.85














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 3% for pipe inserted into fitting and wastage etc. on P 3xP/ 100				450.00
9999	Cement, sand and grit Add 2% for special T&P and sundries etc. on P 2xP/ 100 LABOUR	L.S.	5.33	2.12	11.30 300.00
0116	Fitter (grade 1)	day	0.33	420.00	138.60
0117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
0114	Beldar	day	0.66	306.00	201.96
	TOTAL				16348.25 W
	Add 1 % Water charges on "W"				163.48
	TOTAL				16511.73 X
	Add GST on "X" (multiplying factor 0.1405)				2319.90
	TOTAL				18831.63 y
	Add 15% CPOH on "y"				2824.74
	TOTAL				21656.37 z
	Add Cess @ 1% on "Z"				216.56
	Cost of 10 metre				21872.93
	Cost of 1 metre				2187.29
	Say		Per Mtr		2187.30
18.86	Providing and fixing Stainless Steel pipe and fitting of grade AISI 304 as per JIS standard 3448 complete with press type fitting (fitting shall be paid for separately) i/c fixing of the pipe with clamps at 1.00m spacing and also including cutting of chases and making good the walls including testing of joints complete as per direction of Engineer -in-charge. (The pipe length inserted in the fitting shall not be measured for payment).				
	Internal work - Concealed Pipe.				
18.86.1	15.88 mm outer dia .Pipes.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.00 metre.				
	MATERIAL:				
8779	SS pipe 304 grades with press fit technology as per JIS 3448 standard 15.88 mm outer dia Add 3% for pipe inserted into fitting and wastage etc. on X on X = 3 X 1400 / 100=42	metre	10.00	140.00	1400.00 X 42.00
2272	Carriage of Stainless Steel pipes below 100 mm dia Making chases upto 7.5x7.5 cm.in walls and making good the same	tonne	0.003010	145.72	0.44
18.78	Rate as per Item Number 18.78 of SH: Water supply Add 2% for special T&P and sundries etc. on X =2 X 1400 / 100=28	metre	10.00	84.51	845.09 A 28.00
	LABOUR:				
0116	Fitter (grade 1)	day	0.33	420.00	138.60
0117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
0114	Beldar	day	0.66	306.00	201.96
	TOTAL				2899.63
	Add Water Charges @ 1% except on A i.e on				20.55
	TOTAL				2920.18 (Z)
	Add GST 12% on "Z" except A (multiplying factor 0.1405)				291.55
	TOTAL				3211.73 (Y)
	Add CPOH @ 15% on "Y" except A				354.99

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of 10.00 metre				3566.72
	Cost of 1 metre				356.67
	add 1% labour cess				3.57
	Say				360.20
18.86.2	22.22 mm Outer dia pipes.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for 10.00 metre.				
	MATERIAL:				
8780	SS pipe 304 grades with press fit technology as per JIS 3448 standard 22.22 mm outer dia	metre	10.00	250.00	2500.00 X
	Add 3% for pipe inserted into fitting and wastage etc. on X				
	on X = 3 X 2500 / 100=75				75.00
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.01	145.72	0.77
	Making chases upto 7.5x7.5 cm.in walls and making good the same				
18.78	Rate as per Item Number 18.78 of SH: Water supply	metre	10.00	84.51	845.09 A
	Add 2% for special T&P and sundries etc.				
	on X =2 X 2500 / 100=50				50.00
	LABOUR:				
0116	Fitter (grade 1)	day	0.33	420.00	138.60
0117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
0114	Beldar	day	0.66	306.00	201.96
	TOTAL				4054.96
	Add Water Charges @ 1% except on A i.e on				32.10
	TOTAL				4087.06 (Z)
	Add GST 12% on "Z" except A (multiplying factor 0.1405)				455.50
	TOTAL				4542.56 (Y)
	Add CPOH @ 15% on "Y" except A				554.62
	Cost of 10 metre				5097.18
	Cost of 1 metre				509.72
	add 1% labour cess				5.10
	Say				514.80
18.86A	Providing and fixing Stainless Steel pipes and fittings of grade 316L as per IS 6911:2017 and conforming to EN-10312 standards complete with press type fitting (fitting shall be paid for separately) i/c fixing of the pipe with clamps at 1.00m spacing and also including cutting of chases and making good the walls including testing of joints complete as per direction of Engineer -in-charge. (The pipe length inserted in the fitting shall not be measured for payment)				
	Internal work - Concealed Pipe				
18.86A.I	15 mm outer dia .Pipes.				
	Details of cost for 10 metre				
	MATERIAL				
3862	SS pipe 316L grade as per IS 6911:2017 with press fit technology conforming to EN-10312 standards 15 mm outer dia	metre	10	310.00	3100.00 p
	Add 3% for pipe inserted into fitting and wastage etc. on P				93.00
	3xP/ 100				
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.003472	145.72	0.57
	Making chases upto 7.5x7.5 cm in walls and making good the same				














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.78	Rate as per Item No.18.78 of SH:WATER metre		10	84.51	845.09
	SUPPLY				
	Add 2% for special T&P and sundries etc. on P				62.00
	2xP/ 100				
	LABOUR				
0116	Fitter (grade 1)	day	0.33	420.00	138.60
0117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
0114	Beldar	day	0.66	306.00	201.96
	TOTAL				4684.76 W
	Add 1 % Water charges on "W"				46.85
	TOTAL				4731.61 X
	Add GST on "X" (multiplying factor 0.1405)				664.79
	TOTAL				5396.40 Y
	Add 15% CPOH on "y"				809.46
	TOTAL				6205.86 Z
	Add Cess @ 1% on "Z"				62.06
	Cost of 10 metre				6267.92
	Cost of 1 metre				626.79
	Say				
			Per Mtr		626.80
18.86A.2	22 mm Outer dia pipes				
	Details of cost for 10 metre				
	MATERIAL				
3863	SS pipe 316L grade as per IS 6911:2017 with metre		10	500.00	5000.00 p
	press fit technology conforming to EN-10312 standards 22 mm outer dia				
	Add 3% for pipe inserted into fitting and wastage etc. on P				150.00
	3xP/ 100				
2272	Carriage of Stainless Steel pipes below 100 tonne mm dia		0.00619	145.72	0.57
	Making chases upto 7.5x7.5 cm in walls and making good the same				
18.78	Rate as per Item No.18.78 of SH: WATER metre		10	84.51	845.09 A
	SUPPLY				
	Add 2% for special T&P and sundries etc. on P				100.00
	2xP/ 100				
	LABOUR				
0116	Fitter (grade 1)	day	0.33	420.00	138.60
0117	Assistant Fitter or 2nd class Fitter	day	0.66	369.00	243.54
0114	Beldar	day	0.66	306.00	201.96
	TOTAL				6679.76 W
	Add 1 % Water charges on "W"				66.80
	TOTAL				6746.56 X
	Add GST on "X" (multiplying factor 0.1405)				947.89
	TOTAL				7694.45 Y
	Add 15% CPOH on "y"				1154.17
	TOTAL				8848.62 Z
	Add Cess @ 1% on "Z"				88.49
	Cost of 10 metre				8937.11
	Cost of 1 metre				893.71
	Say				
			Per Mtr		893.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.87	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Coupling/Socket.				
18.87.1	For 15.88 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8702	Coupling/Socket fittings for 15.88 mm outer dia SS pipe	each	1	60.00	60.00
	TOTAL				60.00
	Add Water Charges @ 1%				0.60
	TOTAL				60.60 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				8.51
	TOTAL				69.11 (Y)
	Add CPOH @ 15% on "Y"				10.37
	Cost of each				79.48
	add 1% labour cess				0.79
	Say				80.30
18.87.2	For 22.22 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8786	Coupling/Socket fittings for 22.22 mm outer dia SS pipe	each	1	70.00	70.00
	TOTAL				70.00
	Add Water Charges @ 1%				0.70
	TOTAL				70.70 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				9.93
	TOTAL				80.63 (Y)
	Add CPOH @ 15% on "Y"				12.10
	Cost of each				92.73
	add 1% labour cess				0.93
	Say				93.70
18.87.3	For 28.58 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8787	Coupling/Socket fittings for 28.58 mm outer dia SS pipe	each	1	96.25	96.25
	TOTAL				96.25
	Add Water Charges @ 1				0.96
	TOTAL				97.21 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				13.66
	TOTAL				110.87 (Y)
	Add CPOH @ 15% on "Y"				16.63
	Cost of each				127.50
	add 1% labour cess				1.28
	Say				128.80
18.87.4	For 34.00 mm outer dia pipe.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for One no.				
	MATERIAL:				
8788	Coupling/Socket fittings for 34.00 mm outer dia SS pipe	each	1	135.00	135.00
	TOTAL				135.00
	Add Water Charges @ 1%				1.35
	TOTAL				136.35 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				19.16














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				155.51 (Y)
	Add CPOH @ 15% on "Y"				23.33
	Cost of each				178.83
	add 1% labour cess				1.79
	Say				180.60
18.87.5	For 42.70 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8789	Coupling/Socket fittings for 42.70 mm outer dia SS pipe	each	1	160.00	160.00
	TOTAL				160.00
	Add Water Charges @ 1%				1.60
	TOTAL				161.60 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				22.70
	TOTAL				184.30 (Y)
	Add CPOH @ 15% on "Y"				27.65
	Cost of each				211.95
	add 1% labour cess				2.12
	Say				214.07
18.87.6	For 48.60 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8790	Coupling/Socket fittings for 48.60 mm outer dia SS pipe	each	1	180.00	180.00
	TOTAL				180.00
	Add Water Charges @ 1%				1.80
	TOTAL				181.80 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				25.54
	TOTAL				207.34 (Y)
	Add CPOH @ 15% on "Y"				31.10
	Cost of each				238.44
	add 1% labour cess				2.38
	Say				240.80
18.87A	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911:2017 and conforming to EN-10312 standards with V-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Coupling/Socket				
18.87A.1	For 15 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3868	Coupling/Socket fittings for 15 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	215.00	215.00
	TOTAL				215.00 W
	Add 1 % Water charges on "W"				2.15
	TOTAL				217.15 X
	Add GST on "X" (multiplying factor 0.1405)				30.51
	TOTAL				247.66 Y
	Add 15% CPOH on "y"				37.15
	TOTAL				284.81 Z
	Add Cess @ 1% on "Z"				2.85
	Cost of 1 no				287.66
	Say				287.70
18.87A.2	For 22 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3869	Coupling/Socket fittings for 22 mm outer dia SS pipe of grade 316 L as per IS 6911:2017 and conforming to EN-10312	each	1	270.00	270.00
	TOTAL				270.00 w
	Add 1 % Water charges on "W"				2.70
	TOTAL				272.70 x
	Add GST on "X" (multiplying factor 0.1405)				38.31
	TOTAL				311.01 y
	Add 15% CPOH on "y"				46.65
	TOTAL				357.67 z
	Add Cess @ 1% on "Z"				3.58
	Cost of 1 no				361.24
	Say	Per No.			361.20
18.87A.3	For 28 mm outer dia pipe Details of cost for 1no. MATERIAL				
3870	Coupling/Socket fittings for 28 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	315.00	315.00
	TOTAL				315.00 w
	Add 1 % Water charges on "W"				3.15
	TOTAL				318.15 X
	Add GST on "X" (multiplying factor 0.1405)				44.70
	TOTAL				362.85 y
	Add 15% CPOH on "y"				54.43
	TOTAL				417.28 Z
	Add Cess @ 1% on "Z"				4.17
	Cost of 1 no				421.45
	Say	Per No.			421.50
18.87A.4	For 35 mm outer dia pipe Details of cost for 1no. MATERIAL				
3871	Coupling/Socket fittings for 35 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	395.00	395.00
	TOTAL				395.00 W
	Add 1 % Water charges on "W"				3.95
	TOTAL				398.95 X
	Add GST on "X" (multiplying factor 0.1405)				56.05
	TOTAL				455.00 Y
	Add 15% CPOH on "y"				68.25
	TOTAL				523.25 Z
	Add Cess @ 1% on "Z"				5.23
	Cost of 1 no				528.49
	Say	Per No.			528.50
18.87A.5	For 42 mm outer dia pipe Details of cost for 1no. MATERIAL				
3872	Coupling/Socket fittings for 42 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	395.00	395.00
	TOTAL				395.00 W
	Add 1 % Water charges on "W"				3.95
	TOTAL				398.95 X
	Add GST on "X" (multiplying factor 0.1405)				56.05
	TOTAL				455.00 Y














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 15% CPOH on "y"				68.25
	TOTAL				523.25 Z
	Add Cess @ 1% on "Z"				5.23
	Cost of 1 no				528.49
	Say		Per No.		528.50
18.87A.6	For 54 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3873	Coupling/Socket fittings for 54 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	640.00	640.00
	TOTAL				640.00 W
	Add 1 % Water charges on "W"				6.40
	TOTAL				646.40 X
	Add GST on "X" (multiplying factor 0.1405)				90.82
	TOTAL				737.22 Y
	Add 15% CPOH on "y"				110.58
	TOTAL				847.80 Z
	Add Cess @ 1% on "Z"				8.48
	Cost of 1 no				856.28
	Say		Per No.		856.30
18.88	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Reducer.				
18.88.1	For 22.22 mm x 15.88 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8791	Reducer for 22.22 mm X 15.88 mm outer Dia SS pipe	each	1	108.50	108.50
	TOTAL				108.50
	Add Water Charges @ 1%				1.09
	TOTAL				109.59 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				15.40
	TOTAL				124.98 (Y)
	Add CPOH @ 15% on "Y"				18.75
	Cost of each				143.73
	add 1% labour cess				1.44
	Say				145.20
18.88.2	For 28.58 mm x 15.88 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8792	Reducer for 28.58 mm X 15.88 mm outer Dia SS pipe	each	1	152.50	152.50
	TOTAL				152.50
	Add Water Charges @ 1%				1.53
	TOTAL				154.03 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				21.64
	TOTAL				175.67 (Y)
	Add CPOH @ 15% on "Y"				26.35
	Cost of each				202.02
	add 1% labour cess				2.02
	Say				204.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.88.3	For 28.58 mm x 22.22 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8793	Reducer for 28.58 mm X 22.22 mm outer Dia SS pipe	each	1	161.50	161.50
	TOTAL				161.50
	Add Water Charges @ 1%				1.62
	TOTAL				163.12 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				22.92
	TOTAL				186.03 (Y)
	Add CPOH @ 15% on "Y"				27.90
	Cost of each				213.94
	add 1% labour cess				2.14
	Say				216.10
18.88.4	For 34.00 mm x 15.88 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8794	Reducer for 34.00 mm X 15.88 mm outer Dia SS pipe	each	1.00	200.00	200.00
	TOTAL				200.00
	Add Water Charges @ 1%				2.00
	TOTAL				202.00 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				28.38
	TOTAL				230.38 (Y)
	Add CPOH @ 15% on "Y"				34.56
	Cost of each				264.94
	add 1% labour cess				2.65
	Say				267.60
18.88.5	For 34.00 mm x 22.22 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8795	Reducer for 34.00 mm X 22.22 mm outer Dia SS pipe	each	1.00	210.00	210.00
	TOTAL				210.00
	Add Water Charges @ 1%				2.10
	TOTAL				212.10 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				29.80
	TOTAL				241.90 (Y)
	Add CPOH @ 15% on "Y"				36.29
	Cost of each				278.19
	add 1% labour cess				2.78
	Say				281.00
18.88.6	For 34.00 mm x 28.58 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8796	Reducer for 34.00 mm X 28.58 mm outer Dia SS pipe	each	1.00	210.00	210.00
	TOTAL				210.00
	Add Water Charges @ 1%				2.10
	TOTAL				212.10 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				29.80
	TOTAL				241.90 (Y)
	Add CPOH @ 15% on "Y"				36.29
	Cost of each				278.19
	add 1% labour cess				2.78
	Say				281.00














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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.88.7	For 42.70 mm x 15.88 mm outer dia pipe, Details of cost for One no. MATERIAL:				
8797	Reducer for 42.70 mm X 15.88 mm outer Dia SS pipe	each	1.00	375.00	375.00
	TOTAL				375.00
	Add Water Charges @ 1%				3.75
	TOTAL				378.75 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				53.21
	TOTAL				431.96 (Y)
	Add CPOH @ 15% on "Y"				64.79
	Cost of each				496.76
	add 1% labour cess				4.97
	Say				501.70
18.88.8	For 42.70 mm x 22.22 mm outer dia pipe. Details of cost for One no. MATERIAL:				
8798	Reducer for 42.70 mm X 22.22 mm outer Dia SS pipe	each	1	375.00	375.00
	TOTAL				375.00
	Add Water Charges @ 1%				3.75
	TOTAL				378.75 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				53.21
	TOTAL				431.96 (Y)
	Add CPOH @ 15% on "Y"				64.79
	Cost of each				496.76
	add 1% labour cess				4.97
	Say				501.70
18.88.9	For 42.70 mm x 28.58 mm outer dia pipe. Details of cost for One no. MATERIAL:				
8799	Reducer for 42.70 mm X 28.58 mm outer Dia SS pipe	each	1	390.00	390.00
	TOTAL				390.00
	Add Water Charges @ 1%				3.90
	TOTAL				393.90 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				55.34
	TOTAL				449.24 (Y)
	Add CPOH @ 15% on "Y"				67.39
	Cost of each				516.63
	add 1% labour cess				5.17
	Say				521.80
18.88.10	For 42.70 mm x 34.00 mm outer dia pipe. Details of cost for One no. MATERIAL:				
8800	Reducer for 42.70 mm X 34.00 mm outer Dia SS pipe	each	1.00	390.00	390.00
	TOTAL				390.00
	Add Water Charges @ 1%				3.90
	TOTAL				393.90 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				55.34
	TOTAL				449.24 (Y)
	Add CPOH @ 15% on "Y"				67.39
	Cost of each				516.63
	add 1% labour cess				5.17
	Say				521.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.88.11	For 48.60 mm x 15.88 mm outer dia pipe. Details of cost for One no. MATERIAL:				
8801	Reducer for 48.60 mm X 15.88 mm outer Dia SS pipe	each	1.00	425.00	425.00
	TOTAL				425.00
	Add Water Charges @ 1%				4.25
	TOTAL				429.25 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				60.31
	TOTAL				489.56 (Y)
	Add CPOH @ 15% on "Y"				73.43
	Cost of each				562.99
	add 1% labour cess				5.63
	Say				568.60
18.88.12	For 48.60 mm x 22.22 mm outer dia pipe. Details of cost for One no. MATERIAL:				
8802	Reducer for 48.60 mm X 22.22 mm outer Dia SS pipe	each	1.00	425.00	425.00
	TOTAL				425.00
	Add Water Charges @ 1%				4.25
	TOTAL				429.25 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				60.31
	TOTAL				489.56 (Y)
	Add CPOH @ 15% on "Y"				73.43
	Cost of each				562.99
	add 1% labour cess				5.63
	Say				568.60
18.88.13	For 48.60 mm x 28.58 mm outer dia pipe. Details of cost for One no. MATERIAL:				
8803	Reducer for 48.60 mm X 28.58 mm outer Dia SS pipe	each	1.00	425.00	425.00
	TOTAL				425.00
	Add Water Charges @ 1%				4.25
	TOTAL				429.25 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				60.31
	TOTAL				489.56 (Y)
	Add CPOH @ 15% on "Y"				73.43
	Cost of each				562.99
	add 1% labour cess				5.63
	Say				568.60
18.88.14	For 48.60 mm x 34.00 mm outer dia pipe. Details of cost for One no. MATERIAL:				
8804	Reducer for 48.60 mm X 34.00 mm outer each 1.00	each	1.00	425.00	425.00
	Dia SS pipe				
	TOTAL				425.00
	Add Water Charges @ 1%				4.25
	TOTAL				429.25 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				60.31
	TOTAL				489.56 (Y)
	Add CPOH @ 15% on "Y"				73.43
	Cost of each				562.99
	add 1% labour cess				5.63
	Say				568.60














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.88.15	For 48.60 mm x 42.70 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8805	Reducer for 48.60 mm X 42.70 mm outer Dia SS pipe	each	1	425.00	425.00
	TOTAL				425.00
	Add Water Charges @ 1%				4.25
	TOTAL				429.25 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				60.31
	TOTAL				489.56 (Y)
	Add CPOH @ 15% on "Y"				73.43
	Cost of each				562.99
	add 1% labour cess				5.63
	Say				568.60
18.88A	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911:2017 and conforming to EN-10312 standards with V-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Reducer				
18.88A.1	For 22mm x 15 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3874	Reducer for 22mm x 15 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	255.00	255.00
	TOTAL				255.00 W
	Add 1 % Water charges on "W"				2.55
	TOTAL				257.55 X
	Add GST on "X" (multiplying factor 0.1405)				36.19
	TOTAL				293.74 Y
	Add 15% CPOH on "y"				44.06
	TOTAL				337.80 Z
	Add Cess @ 1% on "Z"				3.38
	Cost of 1 no				341.17
	Say			Per No.	341.20
18.88A.2	For 28 mmx 15 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3875	Reducer for 28 mm X 15 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	375.00	375.00
	TOTAL				375.00 W
	Add 1 % Water charges on "W"				3.75
	TOTAL				378.75 X
	Add GST on "X" (multiplying factor 0.1405)				53.21
	TOTAL				431.96 Y
	Add 15% CPOH on "y"				64.79
	TOTAL				496.76 Z
	Add Cess @ 1% on "Z"				4.97
	Cost of 1 no				501.73
	Say			Per No.	501.70
18.88A.3	For 28 mm x 22 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3876	Reducer for 28 mm x 22 mm outer Dia SS pipe each of grade 316L as per IS 6911:2017 and conforming to EN-10312		1	310.00	310
	TOTAL				310.00 W
	Add 1 % Water charges on "W"				3.10
	TOTAL				313.10 X
	Add GST on "X" (multiplying factor 0.1405)				43.99
	TOTAL				357.09 Y
	Add 15% CPOH on "y"				53.56
	TOTAL				410.65 Z
	Add Cess @ 1% on "Z"				4.11
	Cost of 1 no				414.76
	Say	Per No.			414.80
18.88A.4	For 35 mm x 22 mm outer dia pipe Details of cost for 1no. MATERIAL				
3877	Reducer for 35 mm x 22 mm outer Dia SS pipe each of grade 316L as per IS 6911:2017 and conforming to EN-10312		1	380.00	380
	TOTAL				380.00 W
	Add 1 % Water charges on "W"				3.80
	TOTAL				383.80 X
	Add GST on "X" (multiplying factor 0.1405)				53.92
	TOTAL				437.72 Y
	Add 15% CPOH on "y"				65.66
	TOTAL				503.38 Z
	Add Cess @ 1% on "Z"				5.03
	Cost of 1 no				508.42
	Say	Per No.			508.40
18.88A.5	For 35 mm x 28 mm outer dia pipe Details of cost for 1no. MATERIAL				
3878	Reducer for 35 mm x 28 mm outer Dia SS pipe each of grade 316 L as per IS 6911:2017 and conforming to EN-10312		1	470.00	470.00
	TOTAL				470.00 W
	Add 1 % Water charges on "W"				4.70
	TOTAL				474.70 X
	Add GST on "X" (multiplying factor 0.1405)				66.70
	TOTAL				541.40 Y
	Add 15% CPOH on "y"				81.21
	TOTAL				622.60 Z
	Add Cess @ 1% on "Z"				6.23
	Cost of 1 no				628.83
	Say	Per No.			628.80
18.88A.6	For 42 mm x 22 mm outer dia pipe Details of cost for 1no. MATERIAL				
3879	Reducer for 42 mm x 22 mm outer Dia SS pipe each of grade 316L as per IS 6911:2017 and conforming to EN-10312		1	690.00	690
	TOTAL				690.00 W
	Add 1 % Water charges on "W"				6.90
	TOTAL				696.90 X
	Add GST on "X" (multiplying factor 0.1405)				97.91














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				794.81 Y
	Add 15% CPOH on "y"				119.22
	TOTAL				914.04 Z
	Add Cess @ 1% on "Z"				9.14
	Cost of 1 no				923.18
	Say	Per No.			923.20
18.88A.7	For 42 mm x 28 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3880	Reducer for 42 mm x 28 mm outer Dia SS pipe each of grade 316L as per IS 6911:2017 and conforming to EN-10312		1	720.00	720
	TOTAL				720.00 W
	Add 1 % Water charges on "W"				7.20
	TOTAL				727.20 X
	Add GST on "X" (multiplying factor 0.1405)				102.17
	TOTAL				829.37 Y
	Add 15% CPOH on "y"				124.41
	TOTAL				953.78 Z
	Add Cess @ 1% on "Z"				9.54
	Cost of 1 no				963.32
	Say	Per No.			963.30
18.88A.8	For 42 mm x 35 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3881	Reducer for 42 mm x 35 mm outer Dia SS pipe each of grade 316L as per IS 6911:2017 and conforming to EN-10312		1	605.00	605
	TOTAL				605.00 W
	Add 1 % Water charges on "W"				6.05
	TOTAL				611.05 X
	Add GST on "X" (multiplying factor 0.1405)				85.85
	TOTAL				696.90 Y
	Add 15% CPOH on "y"				104.54
	TOTAL				801.44 Z
	Add Cess @ 1% on "Z"				8.01
	Cost of 1 no				809.45
	Say	Per No.			809.50
18.88A.9	For 54 mm x 28 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3882	Reducer for 54 mm x 28 mm outer Dia SS pipe each of grade 316L as per IS 6911:2017 and conforming to EN-10312		1	990.00	990
	TOTAL				990.00 W
	Add 1 % Water charges on "W"				9.90
	TOTAL				999.90 X
	Add GST on "X" (multiplying factor 0.1405)				140.49
	TOTAL				1140.39 Y
	Add 15% CPOH on "y"				171.06
	TOTAL				1311.44 Z
	Add Cess @ 1% on "Z"				13.11
	Cost of 1 no				1324.56
	Say	Per No.			1324.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.88A.10	For 54 mm x 35 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3883	Reducer for 54 mm x 35 mm outer Dia SS pipe each cf grade 316L as per IS 6911:2017 and conforming to EN-10312		1	1030.00	1030
	TOTAL				1030.00 W
	Add 1 % Water charges on "W"				10.30
	TOTAL				1040.30 X
	Add GST on "X" (multiplying factor 0.1405)				146.16
	TOTAL				1186.46 Y
	Add 15% CPOH on "y"				177.97
	TOTAL				1364.43 Z
	Add Cess @ 1% on "Z"				13.64
	Cost of 1 no				1378.08
	Say		Per No.		1378.10
18.88A.11	For 54 mm x42 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3884	Reducer for 54 mm x 42 mm outer Dia SS pipe of each grade 316L as per IS 6911:2017 and conforming to EN-10312		1	835.00	835
	TOTAL				835.00 W
	Add 1 % Water charges on "W"				8.35
	TOTAL				843.35 X
	Add GST on "X" (multiplying factor 0.1405)				118.49
	TOTAL				961.84 Y
	Add 15% CPOH on "y"				144.28
	TOTAL				1106.12 Z
	Add Cess @ 1% on "Z"				11.06
	Cost of 1 no				1117.18
	Say		Per No.		1117.20
18.89	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Slip Coupling/ Socket.				
18.89.1	For 15.88 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8806	Slip Coupling / Socket 15.88 mm outer dia SS pipe	each	1	55.00	55.00
	TOTAL				55.00
	Add Water Charges @ 1%				0.55
	TOTAL				55.55 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				7.80
	TOTAL				63.35 (Y)
	Add CPOH @ 15% on "Y"				9.50
	Cost of each				72.86
	add 1% labour cess				0.73
	Say				73.60
18.89.2	For 22.22 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8807	Slip Coupling / Socket 22.22 mm outer dia SS pipe	each	1	70.00	70.00
	TOTAL				70.00









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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Water Charges @ 1%				0.70
	TOTAL				70.70 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				9.93
	TOTAL				80.63 (Y)
	Add CPOH @ 15% on "Y"				12.10
	Cost of each				92.73
	add 1% labour cess				0.93
	Say				93.70
18.89.3	For 28.58 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8808	Slip Coupling / Socket 28.58 mm outer dia SS pipe	each	1	95.00	95.00
	TOTAL				95.00
	Add Water Charges @ 1%				0.95
	TOTAL				95.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				13.48
	TOTAL				109.43 (Y)
	Add CPOH @ 15% on "Y"				16.41
	Cost of each				125.85
	add 1% labour cess				1.26
	Say				127.10
18.89.4	For 34.00 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8809	Slip Coupling / Socket 34.00 mm outer dia SS pipe	each	1	135.00	135.00
	TOTAL				135.00
	Add Water Charges @ 1%				1.35
	TOTAL				136.35 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				19.16
	TOTAL				155.51 (Y)
	Add CPOH @ 15% on "Y"				23.33
	Cost of each				178.83
	add 1% labour cess				1.79
	Say				180.60
18.89.5	For 42.70 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8810	Slip Coupling / Socket 42.70 mm outer dia each 1.00 490.00 490.00 SS pipe	each	1	160.00	160.00
	TOTAL				160.00
	Add Water Charges @ 1%				1.60
	TOTAL				161.60 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				22.70
	TOTAL				184.30 (Y)
	Add CPOH @ 15% on "Y"				27.65
	Cost of each				211.95
	add 1% labour cess				2.12
	Say				214.10
18.89.6	For 48.60 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8811	Slip Coupling / Socket 48.60 mm outer dia each 1.00 609.00 609.00 SS pipe	each	1	175.00	175.00
	TOTAL				175.00
	Add Water Charges @ 1%				1.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				176.75 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				24.83
	TOTAL				201.58 (Y)
	Add CPOH @ 15% on "Y"				30.24
	Cost of each				231.82
	add 1% labour cess				2.32
	Say				234.10
18.89A	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911:2017 and conforming to EN-10312 standards with V-profile and with'O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Sleeve/Slip Coupling/ Socket				
18.89A.1	For 15 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3885	Sleeve/ Slip Coupling / Socket 15 mm outer dia each		1	375.00	375.00
	SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312				
	TOTAL				375.00 W
	Add 1 % Water charges on "W"				3.75
	TOTAL				378.75 X
	Add GST on "X" (multiplying factor 0.1405)				53.21
	TOTAL				431.96 Y
	Add 15% CPOH on "y"				64.79
	TOTAL				496.76 Z
	Add Cess @ 1% on "Z"				4.97
	Cost of 1 no				501.73
	Say		Per No.		501.70
18.89A.2	For 22 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3886	Sleeve/ Slip Coupling / Socket 22 mm outer dia each		1	450.00	450
	SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312				
	TOTAL				450.00
	Add 1 % Water charges on "W"				4.50
	TOTAL				454.50
	Add GST on "X" (multiplying factor 0.1405)				63.86
	TOTAL				518.36
	Add 15% CPOH on "y"				77.75
	TOTAL				596.11
	Add Cess @ 1% on "Z"				5.96
	Cost of 1 no				602.07
	Say		Per No.		602.10
18.89A.3	For 28 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3887	Sleeve/ Slip Coupling / Socket 28 mm outer dia each		1	520.00	520.00
	SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312				
	TOTAL				520.00
	Add 1 % Water charges on "W"				5.20
	TOTAL				525.20
	Add GST on "X" (multiplying factor 0.1405)				73.79
	TOTAL				598.99
	Add 15% CPOH on "y"				89.85














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				688.84
	Add Cess @ 1% on "Z"				6.89
	Cost of 1 no				695.73
	Say		Per No.		695.70
18.89A.4	For 35 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3888	Sleeve/ Slip Coupling / Socket 35 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	580.00	580.00
	TOTAL				580.00 W
	Add 1 % Water charges on "W"				5.80
	TOTAL				585.80 X
	Add GST on "X" (multiplying factor 0.1405)				82.30
	TOTAL				668.10 Y
	Add 15% CPOH on "y"				100.22
	TOTAL				768.32 Z
	Add Cess @ 1% on "Z"				7.68
	Cost of 1 no				776.00
	Say		Per No.		776.00
18.89A.5	For 42 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3889	Sleeve/ Slip Coupling / Socket 42 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	670.00	670.00
	TOTAL				670.00 W
	Add 1 % Water charges on "W"				6.70
	TOTAL				676.70 X
	Add GST on "X" (multiplying factor 0.1405)				95.08
	TOTAL				771.78 Y
	Add 15% CPOH on "y"				115.77
	TOTAL				887.54 Z
	Add Cess @ 1% on "Z"				8.88
	Cost of 1 no				896.42
	Say		Per No.		896.40
18.89A.6	For 54 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3890	Sleeve/ Slip Coupling / Socket 54 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	955.00	955.00
	TOTAL				955.00
	Add 1 % Water charges on "W"				9.55
	TOTAL				964.55
	Add GST on "X" (multiplying factor 0.1405)				135.52
	TOTAL				1100.07
	Add 15% CPOH on "y"				165.01
	TOTAL				1265.08
	Add Cess @ 1% on "Z"				12.65
	Cost of 1 no				1277.73
	Say		Per No.		1277.70
18.90	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Elbow 90°				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.90.1	For 15.88mm outer dia pipe.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for One no.				
	MATERIAL:				
8812	Elbow 900 for 15.88 mm outer dia SS pipe	each	1	65.00	65.00
	each 1.00 86.00 86.00				
	TOTAL				65.00
	Add Water Charges @ 1%				0.65
	TOTAL				65.65 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				9.22
	TOTAL				74.87 (Y)
	Add CPOH @ 15% on "Y"				11.23
	Cost of each				86.10
	add 1% labour cess				0.86
	Say				87.00
18.90.2	For 22.22 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8813	Elbow 900 for 22.22 mm outer dia SS pipe	each	1	70.00	70.00
	TOTAL				70.00
	Add Water Charges @ 1%				0.70
	TOTAL				70.70 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				9.93
	TOTAL				80.63 (Y)
	Add CPOH @ 15% on "Y"				12.10
	Cost of each				92.73
	add 1% labour cess				0.93
	Say				93.70
18.90.3	For 28.58 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8814	Elbow 900 for 28.58 mm outer dia SS pipe	each	1	105.00	105.00
	TOTAL				105.00
	Add Water Charges @ 1%				1.05
	TOTAL				106.05 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				14.90
	TOTAL				120.95 (Y)
	Add CPOH @ 15% on "Y"				18.14
	Cost of each				139.09
	add 1% labour cess				1.39
	Say				140.50
18.90.4	For 34.00 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8815	Elbow 900 for 34.00 mm outer dia SS pipe	each	1	120.00	120.00
	TOTAL 429.00				
	TOTAL				120.00
	Add Water Charges @ 1%				1.20
	TOTAL				121.20 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				17.03
	TOTAL				138.23 (Y)
	Add CPOH @ 15% on "Y"				20.73
	Cost of each				158.96
	add 1% labour cess				1.59
	Say				160.60
18.90.5	For 42.70 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8816	Elbow 90° for 42.70 mm outer dia SS pipe each 1.00 657.00 657.00 TOTAL Add Water Charges @ 1% TOTAL Add GST 12% on "X"(multiplying factor 0.1405) TOTAL Add CPOH @ 15% on "Y" Cost of each add 1% labour cess Say	each	1	130.00	130.00 130.00 1.30 131.30 (X) 18.45 149.75 (Y) 22.46 172.21 1.72 173.90
18.90.6	For 48.60 mm outer dia pipe. Details of cost for One no. MATERIAL:				
8817	Elbow 90° for 48.60 mm outer dia SS pipe each 1.00 808.00 808.00 TOTAL Add Water Charges @ 1% TOTAL Add GST 12% on "X"(multiplying factor 0.1405) TOTAL Add CPOH @ 15% on "Y" Cost of each add 1% labour cess Say	each	1	160.00	160.00 160.00 1.60 161.60 (X) 22.70 184.30 (Y) 27.65 211.95 2.12 214.10
18.90A	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911:2017 and conforming to EN-10312 standards with V-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge. Elbow 90				
18.90A.1	For 15 mm outer dia pipe Details of cost for 1no. MATERIAL:				
3891	Elbow 90° for 15 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 TOTAL Add 1 % Water charges on "W" TOTAL Add GST on "X" (multiplying factor 0.1405) TOTAL Add 15% CPOH on "y" TOTAL Add Cess @ 1% on "Z" Cost of 1 no Say	each	1.00	305.00	305.00 305.00 W 3.05 308.05 X 43.28 351.33 Y 52.70 404.03 Z 4.04 408.07 Per No. 408.10
18.90A.2	For 22 mm outer dia pipe Details of cost for 1no. MATERIAL:				
3892	Elbow 90° for 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 TOTAL Add 1 % Water charges on "W" TOTAL Add GST on "X" (multiplying factor 0.1405) TOTAL Add 15% CPOH on "y" TOTAL	each	1.00	430.00	430.00 430.00 W 4.30 434.30 X 61.02 495.32 Y 74.30 569.62 Z

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				5.70
	Cost of 1 no				575.31
	Say		Per No.		575.30
18.90A.3	For 28 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3893	Elbow 90° for 28 mm outer dia SS pipe of each grade 316L as per IS 6911:2017 and conforming to EN-10312		1.00	575.00	575.00
	TOTAL				575.00 W
	Add 1 % Water charges on "W"				5.75
	TOTAL				580.75 X
	Add GST on "X" (multiplying factor 0.1405)				81.60
	TOTAL				662.35 Y
	Add 15% CPOH on "y"				99.35
	TOTAL				761.70 Z
	Add Cess @ 1% on "Z"				7.62
	Cost of 1 no				769.31
	Say		Per No.		769.30
18.90A.4	For 35 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3894	Elbow 90° for 35 mm outer dia SS pipe of each grade 316L as per IS 6911:2017 and conforming to EN-10312		1.00	940.00	940.00
	TOTAL				940.00 W
	Add 1 % Water charges on "W"				9.40
	TOTAL				949.40 X
	Add GST on "X" (multiplying factor 0.1405)				133.39
	TOTAL				1082.79 Y
	Add 15% CPOH on "y"				162.42
	TOTAL				1245.21 Z
	Add Cess @ 1% on "Z"				12.45
	Cost of 1 no				1257.66
	Say		Per No.		1257.70
18.90A.5	For 42 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3895	Elbow 90° for 42 mm outer dia SS pipe of each grade 316L as per IS 6911:2017 and conforming to EN-10312		1.00	1520.00	1520.00
	TOTAL				1520.00 W
	Add 1 % Water charges on "W"				15.20
	TOTAL				1535.20 X
	Add GST on "X" (multiplying factor 0.1405)				215.70
	TOTAL				1750.90 Y
	Add 15% CPOH on "y"				262.63
	TOTAL				2013.53 Z
	Add Cess @ 1% on "Z"				20.14
	Cost of 1 no				2033.67
	Say		Per No.		2033.70
18.90A.6	For 54 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				








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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3896	Elbow 90° for 54 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1.00	2010.00	2010.00
	TOTAL				2010.00 W
	Add 1 % Water charges on "W"				20.10
	TOTAL				2030.10 X
	Add GST on "X" (multiplying factor 0.1405)				285.23
	TOTAL				2315.33 Y
	Add 15% CPOH on "y"				347.30
	TOTAL				2662.63 Z
	Add Cess @ 1% on "Z"				26.63
	Cost of 1 no				2689.25
	Say			Per No.	2689.30
18.91	AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Reducing Elbow 90°				
18.91.1	For 22.22 mm x 15.88 mm outer dia pipe.				
	Details of Cost for one no.				
	MATERIAL:				
8818	Reducing Elbow 90 0 for 22.22 mm X 15.88 mm outer dia SS pipe	each	1	150.00	150.00
	TOTAL				150.00
	Add Water Charges @ 1%				1.50
	TOTAL				151.50 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				21.29
	TOTAL				172.79 (Y)
	Add CPOH @ 15% on "Y"				25.92
	Cost of each				198.70
	add 1% labour cess				1.99
	Say				200.70
18.91.2	For 28.58 mm x 15.88 mm outer dia pipe.				
	Details of Cost for one no.				
	MATERIAL:				
8819	Reducing Elbow 90 0 for 28.58 mm X 15.88 mm outer dia SS pipe	each	1.00	210.00	210.00
	TOTAL				210.00
	Add Water Charges @ 1%				2.10
	TOTAL				212.10 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				29.80
	TOTAL				241.90 (Y)
	Add CPOH @ 15% on "Y"				36.29
	Cost of each				278.19
	add 1% labour cess				2.78
	Say				281.00
18.91.3	For 28.58 mm x 22.22 mm outer dia pipe.				
	Details of Cost for one no.				
	MATERIAL:				
8820	Reducing Elbow 90 0 for 28.58 mm X 22.22 mm outer dia SS pipe	each	1.00	250.00	250.00
	TOTAL				250.00
	Add Water Charges @ 1%				2.50
	TOTAL				252.50 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				35.48
	TOTAL				287.98 (Y)
	Add CPOH @ 15% on "Y"				43.20
	Cost of each				331.17

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	add 1% labour cess				3.31
	Say				334.50
18.91.4	For 34.00 mm x 22.22 mm outer dia pipe.				
	Details of Cost for one no.				
	MATERIAL:				
8821	Reducing Elbow 90° for 34.00 mm X 22.22 mm outer dia SS pipe	each	1	295.00	295.00
	TOTAL				295.00
	Add Water Charges @ 1%				2.95
	TOTAL				297.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				41.86
	TOTAL				339.81 (Y)
	Add CPOH @ 15% on "Y"				50.97
	Cost of each				390.78
	add 1% labour cess				3.91
	Say				394.70
18.91.5	For 34.00 mm x 28.58 mm outer dia pipe.				
	Details of Cost for one no.				
	MATERIAL:				
8822	Reducing Elbow 90° for 34.00 mm X 28.58 mm outer dia SS pipe	each	1	350.00	350.00
	TOTAL				350.00
	Add Water Charges @ 1%				3.50
	TOTAL				353.50 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				49.67
	TOTAL				403.17 (Y)
	Add CPOH @ 15% on "Y"				60.48
	Cost of each				463.64
	add 1% labour cess				4.64
	Say				468.30
18.91.6	For 42.70 mm x 34.00 mm outer dia pipe.				
	Details of Cost for one no.				
	MATERIAL:				
8823	Reducing Elbow 90° for 42.70 mm X 34.00 mm outer dia SS pipe	each	1	190.00	190.00
	TOTAL				190.00
	Add Water Charges @ 1%				1.90
	TOTAL				191.90 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				26.96
	TOTAL				218.86 (Y)
	Add CPOH @ 15% on "Y"				32.83
	Cost of each				251.69
	add 1% labour cess				2.52
	Say				254.20
18.92	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Equal Tee.				
18.92.1	For 15.88 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8824	Equal Tee for 15.88 mm outer dia SS pipe	each	1	175.00	175.00
	TOTAL				175.00
	Add Water Charges @ 1%				1.75
	TOTAL				176.75 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				24.83
	TOTAL				201.58 (Y)














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add CPOH @ 15% on "Y"				30.24
	Cost of each				231.82
	add 1% labour cess				2.32
	Say				234.10
18.92.2	For 22.22 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8825	Equal Tee for 22.22 mm outer dia SS pipe	each	1	250.00	250.00
	TOTAL				250.00
	Add Water Charges @ 1%				2.50
	TOTAL				252.50 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				35.48
	TOTAL				287.98 (Y)
	Add CPOH @ 15% on "Y"				43.20
	Cost of each				331.17
	add 1% labour cess				3.31
	Say				334.50
18.92.3	For 28.58 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8826	Equal Tee for 28.58 mm outer dia SS pipe	each	1	295.00	295.00
	TOTAL				295.00
	Add Water Charges @ 1%				2.95
	TOTAL				297.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				41.86
	TOTAL				339.81 (Y)
	Add CPOH @ 15% on "Y"				50.97
	Cost of each				390.78
	add 1% labour cess				3.91
	Say				394.70
18.92.4	For 34.00 mm outer dia pipe				
	Details of Cost for one no.				
	Details of cost for One no.				
	MATERIAL:				
8827	Equal Tee for 34.00 mm outer dia SS pipe	each	1	440.00	440.00
	TOTAL				440.00
	Add Water Charges @ 1%				4.40
	TOTAL				444.40 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				62.44
	TOTAL				506.84 (Y)
	Add CPOH @ 15% on "Y"				76.03
	Cost of each				582.86
	add 1% labour cess				5.83
	Say				588.70
18.92.5	For 42.70 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8828	Equal Tee for 42.70 mm outer dia SS pipe	each	1	695.00	695.00
	TOTAL				695.00
	Add Water Charges @ 1%				6.95
	TOTAL				701.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				98.62
	TOTAL				800.57 (Y)
	Add CPOH @ 15% on "Y"				120.09
	Cost of each				920.66
	add 1% labour cess				9.21
	Say				929.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.92.6	For 48.60 mm outer dia pipe.				
Code	Description	Unit	Quantity	Rate	Amount
	Details of cost for One no.				
	MATERIAL:				
8829	Equal Tee for 48.60 mm outer dia SS pipe	each	1	915.00	915.00
	TOTAL				915.00 W
	Add Water Charges @ 1%				9.15
	TOTAL				924.15 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				129.84
	TOTAL				1053.99 (Y)
	Add CPOH @ 15% on "Y"				158.10
	Cost of each				1212.09
	add 1% labour cess				12.12
	Say				1224.20
18.92A	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911:2017 and conforming to EN-10312 standards with V-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Equal Tee				
18.92A.1	For 15 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3897	Equal Tee for 15 mm outer dia SS pipe of each grade 316L as per IS 6911:2017 and conforming to EN-10312		1.00	500.00	500.00
	TOTAL				500.00 W
	Add 1 % Water charges on "W"				5.00
	TOTAL				505.00 X
	Add GST on "X" (multiplying factor 0.1405)				70.95
	TOTAL				575.95 Y
	Add 15% CPOH on "y"				86.39
	TOTAL				662.35 Z
	Add Cess @ 1% on "Z"				6.62
	Cost of 1 no				669.00
	Say				669.00
18.92A.2	For 22 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3898	Equal Tee for 22 mm outer dia SS pipe of each grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	585.00	585
	TOTAL				585.00 W
	Add 1 % Water charges on "W"				5.85
	TOTAL				590.85 X
	Add GST on "X" (multiplying factor 0.1405)				83.01
	TOTAL				673.86 Y
	Add 15% CPOH on "y"				101.08
	TOTAL				774.94 Z
	Add Cess @ 1% on "Z"				7.75
	Cost of 1 no				782.70
	Say				782.70







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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.92A.3	For 28 mm outer dia pipe Details of cost for 1no. MATERIAL				
3899	Equal Tee for 28 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1.00	720.00	720.00
	TOTAL				720.00 W
	Add 1 % Water charges on "W"				7.20
	TOTAL				727.20 X
	Add GST on "X" (multiplying factor 0.1405)				102.17
	TOTAL				829.37 Y
	Add 15% CPOH on "y"				124.41
	TOTAL				953.78 Z
	Add Cess @ 1% on "Z"				9.54
	Cost of 1 no				963.30
	Say				963.30
18.92A.4	For 35 mm outer dia pipe Details of cost for 1no. MATERIAL				
3900	Equal Tee for 35 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1.00	895.00	895.00
	TOTAL				895.00 W
	Add 1 % Water charges on "W"				8.95
	TOTAL				903.95 X
	Add GST on "X" (multiplying factor 0.1405)				127.00
	TOTAL				1030.95 Y
	Add 15% CPOH on "y"				154.64
	TOTAL				1185.60 Z
	Add Cess @ 1% on "Z"				11.86
	Cost of 1 no				1197.50
	Say				1197.50
18.92A.5	For 42 mm outer dia pipe Details of cost for 1no. MATERIAL				
3901	Equal Tee for 42 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1.00	1250.00	1250.00
	TOTAL				1250.00 W
	Add 1 % Water charges on "W"				12.50
	TOTAL				1262.50 X
	Add GST on "X" (multiplying factor 0.1405)				177.38
	TOTAL				1439.88 Y
	Add 15% CPOH on "y"				215.98
	TOTAL				1655.86 Z
	Add Cess @ 1% on "Z"				16.56
	Cost of 1 no				1672.40
	Say				1672.40
18.92A.6	For 54 mm outer dia pipe Details of cost for 1no. MATERIAL				
3902	Equal Tee for 54 mm outer dia SS pipe grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1.00	1500.00	1500.00
	TOTAL				1500.00 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				15.00
	TOTAL				1515.00 X
	Add GST on "X" (multiplying factor 0.1405)				212.86
	TOTAL				1727.86 Y
	Add 15% CPOH on "y"				259.18
	TOTAL				1987.04 Z
	Add Cess @ 1% on "Z"				19.87
	Cost of 1 no				2006.90
	Say				2006.90
18.93	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Reducing Tee.				
18.93.1	For 22.22 mm x 15.88 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8830	Reducing Tee for 22.22 mm X 15.88 mm outer dia SS pipe	each	1	185.00	185.00
	TOTAL				185.00
	Add Water Charges @ 1%				1.85
	TOTAL				186.85 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				26.25
	TOTAL				213.10 (Y)
	Add CPOH @ 15% on "Y"				31.97
	Cost of each				245.07
	add 1% labour cess				2.45
	Say				247.50
18.93.2	For 28.58 mm x 15.88 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8831	Reducing Tee for 28.58 mm X 15.88 mm outer dia SS pipe	each	1	290.00	290.00
	TOTAL				290.00
	Add Water Charges @ 1%				2.90
	TOTAL				292.90 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				41.15
	TOTAL				334.05 (Y)
	Add CPOH @ 15% on "Y"				50.11
	Cost of each				384.16
	add 1% labour cess				3.84
	Say				388.00
18.93.3	For 28.58 mm x 22.22 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8832	Reducing Tee for 28.58 mm X 22.22 mm outer dia SS pipe	each	1	290.00	290.00
	TOTAL				290.00
	Add Water Charges @ 1%				2.90
	TOTAL				292.90 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				41.15
	TOTAL				334.05 (Y)
	Add CPOH @ 15% on "Y"				50.11
	Cost of each				384.16
	add 1% labour cess				3.84
	Say				388.00














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.93.4	For 34.00 mm x 15.88 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8833	Reducing Tee for 34.00 mm X 15.88 mm outer dia SS pipe	each	1	440.00	440.00
	TOTAL				440.00
	Add Water Charges @ 1%				4.40
	TOTAL				444.40 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				62.44
	TOTAL				506.84 (Y)
	Add CPOH @ 15% on "Y"				76.03
	Cost of each				582.86
	add 1% labour cess				5.83
	Say				588.70
18.93.5	For 34.00 mm x 22.22 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8834	Reducing Tee for 34.00 mm X 22.22 mm outer dia SS pipe	each	1	440.00	440.00
	TOTAL				440.00
	Add Water Charges @ 1%				4.40
	TOTAL				444.40 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				62.44
	TOTAL				506.84 (Y)
	Add CPOH @ 15% on "Y"				76.03
	Cost of each				582.86
	add 1% labour cess				5.83
	Say				588.70
18.93.6	For 34.00 mm x 28.58 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8835	Reducing Tee for 34.00 mm X 28.58 mm outer dia SS pipe	each	1	440.00	440.00
	TOTAL				440.00
	Add Water Charges @ 1%				4.40
	TOTAL				444.40 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				62.44
	TOTAL				506.84 (Y)
	Add CPOH @ 15% on "Y"				76.03
	Cost of each				582.86
	add 1% labour cess				5.83
	Say				588.70
18.93.7	For 42.70 mm x 15.88 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8836	Reducing Tee for 42.70 mm X 15.88 mm outer dia SS pipe	each	1	690.00	690.00
	TOTAL				690.00
	Add Water Charges @ 1%				6.90
	TOTAL				696.90 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				97.91
	TOTAL				794.81 (Y)
	Add CPOH @ 15% on "Y"				119.22
	Cost of each				914.04
	add 1% labour cess				9.14
	Say				923.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.93.8	For 42.70 mm x 22.22 mm outer dia pipe. Details of cost for One no. MATERIAL:				
8837	Reducing Tee for 42.70 mm X 22.22 mm outer dia SS pipe	each	1	690.00	690.00
	TOTAL				690.00
	Add Water Charges @ 1%				6.90
	TOTAL				696.90 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				97.91
	TOTAL				794.81 (Y)
	Add CPOH @ 15% on "Y"				119.22
	Cost of each				914.04
	add 1% labour cess				9.14
	Say				923.20
18.93.9	For 42.70 mm x 28.58 mm outer dia pipe. Details of cost for One no. MATERIAL:				
8838	Reducing Tee for 42.70 mm X 28.58 mm outer dia SS pipe	each	1	690.00	690.00
	TOTAL				690.00
	Add Water Charges @ 1%				6.90
	TOTAL				696.90 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				97.91
	TOTAL				794.81 (Y)
	Add CPOH @ 15% on "Y"				119.22
	Cost of each				914.04
	add 1% labour cess				9.14
	Say				923.20
18.93.10	For 42.70 mm x 34.00 mm outer dia pipe. Details of cost for One no. MATERIAL:				
8839	Reducing Tee for 42.70 mm X 34.00 mm outer dia SS pipe	each	1	690.00	690.00
	TOTAL				690.00
	Add Water Charges @ 1%				6.90
	TOTAL				696.90 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				97.91
	TOTAL				794.81 (Y)
	Add CPOH @ 15% on "Y"				119.22
	Cost of each				914.04
	add 1% labour cess				9.14
	Say				923.20
18.93.11	For 48.60 mm x 15.88 mm outer dia pipe. Details of cost for One no. MATERIAL:				
8840	Reducing Tee for 48.60 mm X 15.88 mm outer dia SS pipe	each	1	895.00	895.00
	TOTAL				895.00
	Add Water Charges @ 1%				8.95
	TOTAL				903.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				127.00
	TOTAL				1030.95 (Y)
	Add CPOH @ 15% on "Y"				154.64
	Cost of each				1185.60
	add 1% labour cess				11.86
	Say				1197.50














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.93.12	For 48.60 mm x 22.22 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8841	Reducing Tee for 48.60 mm X 22.22 mm outer dia SS pipe	each	1	895.00	895.00
	TOTAL				895.00
	Add Water Charges @ 1%				8.95
	TOTAL				903.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				127.00
	TOTAL				1030.95 (Y)
	Add CPOH @ 15% on "Y"				154.64
	Cost of each				1185.60
	add 1% labour cess				11.86
	Say				1197.50
18.93.13	For 48.60 mm x 28.58 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8842	Reducing Tee for 48.60 mm X 28.58 mm outer dia SS pipe	each	1	895.00	895.00
	TOTAL				895.00
	Add Water Charges @ 1%				8.95
	TOTAL				903.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				127.00
	TOTAL				1030.95 (Y)
	Add CPOH @ 15% on "Y"				154.64
	Cost of each				1185.60
	add 1% labour cess				11.86
	Say				1197.50
18.93.14	For 48.60 mm x 34.00 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8843	Reducing Tee for 48.60mm X 34.00 mm outer dia SS pipe	each	1	895.00	895.00
	TOTAL				895.00
	Add Water Charges @ 1%				8.95
	TOTAL				903.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				127.00
	TOTAL				1030.95 (Y)
	Add CPOH @ 15% on "Y"				154.64
	Cost of each				1185.60
	add 1% labour cess				11.86
	Say				1197.50
18.93.15	For 48.60 mm x 42.70 mm outer dia pipe.				
	Details of cost for One no.				
	MATERIAL:				
8844	Reducing Tee for 48.60mm X 42.70mm outer dia SS pipe	each	1	895.00	895.00
	TOTAL				895.00
	Add Water Charges @ 1%				8.95
	TOTAL				903.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				127.00
	TOTAL				1030.95 (Y)
	Add CPOH @ 15% on "Y"				154.64
	Cost of each				1185.60
	add 1% labour cess				11.86
	Say				1197.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.93A	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911:2017 and conforming to EN-10312 standards with V-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Reducing Tee				
18.93A.1	For 22 mm x 15 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3903	Reducing Tee for 22 mm x 15 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1.00	575.00	575.00
	TOTAL				575.00 W
	Add 1 % Water charges on "W"				5.75
	TOTAL				580.75 X
	Add GST on "X" (multiplying factor 0.1405)				81.60
	TOTAL				662.35 Y
	Add 15% CPOH on "y"				99.35
	TOTAL				761.70 Z
	Add Cess @ 1% on "Z"				7.62
	Cost of 1 no				769.30
	Say				769.30
18.93A.2	For 28 mm x 15 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3904	Reducing Tee for 28 mm X 15 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	715.00	715.00
	TOTAL				715.00 W
	Add 1 % Water charges on "W"				7.15
	TOTAL				722.15 X
	Add GST on "X" (multiplying factor 0.1405)				101.46
	TOTAL				823.61 Y
	Add 15% CPOH on "y"				123.54
	TOTAL				947.15 Z
	Add Cess @ 1% on "Z"				9.47
	Cost of 1 no				956.60
	Say				956.60
18.93A.3	For 28 mm x 22 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3905	Reducing Tee for 28 mm X 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	710.00	710.00
	TOTAL				710.00 W
	Add 1 % Water charges on "W"				7.10
	TOTAL				717.10 X
	Add GST on "X" (multiplying factor 0.1405)				100.75
	TOTAL				817.85 Y
	Add 15% CPOH on "y"				122.68
	TOTAL				940.53 Z
	Add Cess @ 1% on "Z"				9.41
	Cost of 1 no				949.90
	Say				949.90
18.93A.4	For 35 mm x 15 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				









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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3906	Reducing Tee for 35 mm X 15 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	900.00	900.00
	TOTAL				900.00 W
	Add 1 % Water charges on "W"				9.00
	TOTAL				909.00 X
	Add GST on "X" (multiplying factor 0.1405)				127.71
	TOTAL				1036.71 Y
	Add 15% CPOH on "y"				155.51
	TOTAL				1192.22 Z
	Add Cess @ 1% on "Z"				11.92
	Cost of 1 no				1204.10
	Say				1204.10
18.93A.5	For 35 mm x 22 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3907	Reducing Tee for 35 mm X 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1.00	905.00	905.00
	TOTAL				905.00 W
	Add 1 % Water charges on "W"				9.05
	TOTAL				914.05 X
	Add GST on "X" (multiplying factor 0.1405)				128.42
	TOTAL				1042.47 Y
	Add 15% CPOH on "y"				156.37
	TOTAL				1198.85 Z
	Add Cess @ 1% on "Z"				11.99
	Cost of 1 no				1210.80
	Say				1210.80
18.93A.6	For 35 mm x 28 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3908	Reducing Tee for 35 mm X 28 mm outer dia SS pipe of grade 316L as per IS 6911:2017 conforming to EN-10312 and	each	1	915.00	915.00
	TOTAL				915.00 W
	Add 1 % Water charges on "W"				9.15
	TOTAL				924.15 X
	Add GST on "X" (multiplying factor 0.1405)				129.84
	TOTAL				1053.99 Y
	Add 15% CPOH on "y"				158.10
	TOTAL				1212.09 Z
	Add Cess @ 1% on "Z"				12.12
	Cost of 1 no				1224.20
	Say				1224.20
18.93A.7	For 42 mm x 22 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3909	Reducing Tee for 42 mm X 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	1280.00	1280.00
	TOTAL				1280.00 W
	Add 1 % Water charges on "W"				12.80
	TOTAL				1292.80 X
	Add GST on "X" (multiplying factor 0.1405)				181.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1474.44 Y
	Add 15% CPOH on "y"				221.17
	TOTAL				1695.60 Z
	Add Cess @ 1% on "Z"				16.96
	Cost of 1 no				1712.60
	Say				1712.60
18.93A.8	For 42 mm x 28 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3910	Reducing Tee for 42 mm X 28 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	1265.00	1265.00
	TOTAL				1265.00 W
	Add 1 % Water charges on "W"				12.65
	TOTAL				1277.65 X
	Add GST on "X" (multiplying factor 0.1405)				179.51
	TOTAL				1457.16 Y
	Add 15% CPOH on "y"				218.57
	TOTAL				1675.73 Z
	Add Cess @ 1% on "Z"				16.76
	Cost of 1 no				1692.50
	Say				1692.50
18.93A.9	For 42 mm x 35 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3911	Reducing Tee for 42 mm X 35 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	1290.00	1290.00
	TOTAL				1290.00
	Add 1 % Water charges on "W"				12.90
	TOTAL				1302.90
	Add GST on "X" (multiplying factor 0.1405)				183.06
	TOTAL				1485.96
	Add 15% CPOH on "y"				222.89
	TOTAL				1708.85
	Add Cess @ 1% on "Z"				17.09
	Cost of 1 no				1725.90
	Say				1725.90
18.93A.10	For 54 mm x 22 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3912	Reducing Tee for 54 mm X 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	1570.00	1570.00
	TOTAL				1570.00 W
	Add 1 % Water charges on "W"				15.70
	TOTAL				1585.70 X
	Add GST on "X" (multiplying factor 0.1405)				222.79
	TOTAL				1808.49 Y
	Add 15% CPOH on "y"				271.27
	TOTAL				2079.76 Z
	Add Cess @ 1% on "Z"				20.80
	Cost of 1 no				2100.60
	Say				2100.60














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.93A.11	For 54 mm x 28 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3913	Reducing Tee for 54 mm X 28 mm outer dia SS each pipe of grade 316 conforming to IS 6911:2017		1	1540.00	1540.00
	TOTAL				1540.00 W
	Add 1 % Water charges on "W"				15.40
	TOTAL				1555.40 X
	Add GST on "X" (multiplying factor 0.1405)				218.53
	TOTAL				1773.93 Y
	Add 15% CPOH on "y"				266.09
	TOTAL				2040.02 Z
	Add Cess @ 1% on "Z"				20.40
	Cost of 1 no				2060.40
	Say				2060.40
18.93A.12	For 54 mm x 35 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3914	Reducing Tee for 54 mm X 35 mm outer dia SS each pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312		1	1550.00	1550.00
	TOTAL				1550.00 W
	Add 1 % Water charges on "W"				15.50
	TOTAL				1565.50 X
	Add GST on "X" (multiplying factor 0.1405)				219.95
	TOTAL				1785.45 Y
	Add 15% CPOH on "y"				267.82
	TOTAL				2053.27 Z
	Add Cess @ 1% on "Z"				20.53
	Cost of 1 no				2073.80
	Say				2073.80
18.93A.13	For 54 mm x42 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3915	Reducing Tee for 54mm X 42mm outer dia SS each pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312		1	1500.00	1500.00
	TOTAL				1500.00 W
	Add 1 % Water charges on "W"				15.00
	TOTAL				1515.00 X
	Add GST on "X" (multiplying factor 0.1405)				212.86
	TOTAL				1727.86 Y
	Add 15% CPOH on "y"				259.18
	TOTAL				1987.04 Z
	Add Cess @ 1% on "Z"				19.87
	Cost of 1 no				2006.90
	Say				2006.90
18.94	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Male Thread Tee.				
18.94.1	For 15.88 mm outer dia x 15 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8845	Male thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded TOTAL Add Water Charges @ 1% TOTAL Add GST 12% on "X"(multiplying factor 0.1405) TOTAL Add CPOH @ 15% on "Y" Cost of each add 1% labour cess Say	each	1.00	185.00	185.00 185.00 1.85 186.85 (X) 26.25 213.10 (Y) 31.97 245.07 2.45 247.50
18.94.2	For 22.22 mm outer dia x 15 mm nominal dia threaded. Details of cost for One no. MATERIAL:				
8846	Male thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded TOTAL Add Water Charges @ 1% TOTAL Add GST 12% on "X"(multiplying factor 0.1405) TOTAL Add CPOH @ 15% on "Y" Cost of each add 1% labour cess Say	each	1.00	215.00	215.00 215.00 2.15 217.15 (X) 30.51 247.66 (Y) 37.15 284.81 2.85 287.70
18.94.3	For 22.22 mm outer dia x 20 mm nominal dia threaded. Details of cost for One no. MATERIAL:				
8847	Male thread Tee for 22.22 mm outer dia X each 1.00 368.00 368.00 20 mm nominal dia threaded TOTAL Add Water Charges @ 1% TOTAL Add GST 12% on "X"(multiplying factor 0.1405) TOTAL Add CPOH @ 15% on "Y" Cost of each add 1% labour cess Say	each	1.00	215.00	215.00 215.00 2.15 217.15 (X) 30.51 247.66 (Y) 37.15 284.81 2.85 287.70
18.94.4	For 28.58 mm outer dia x 15 mm nominal dia threaded. Details of cost for One no. MATERIAL:				
8848	Male thread Tee for 28.58 mm outer dia X each 1.00 414.00 414.00 15 mm nominal dia threaded TOTAL Add Water Charges @ 1% TOTAL Add GST 12% on "X"(multiplying factor 0.1405) TOTAL Add CPOH @ 15% on "Y" Cost of each add 1% labour cess Say	each	1.00	295.00	295.00 295.00 2.95 297.95 (X) 41.86 339.81 (Y) 50.97 390.78 3.91 394.70
18.94.5	For 28.58 mm outer dia x 20 mm nominal dia threaded. Details of cost for One no. MATERIAL:				
8849	Male thread Tee for 28.58 mm outer dia X each 1.00 432.00 432.00	each	1.00	295.00	295.00












Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	20 mm nominal dia threaded				
	TOTAL				295.00
	Add Water Charges @ 1%				2.95
	TOTAL				297.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				41.86
	TOTAL				339.81 (Y)
	Add CPOH @ 15% on "Y"				50.97
	Cost of each				390.78
	add 1% labour cess				3.91
	Say				394.70
18.94.6	For 28.58 mm outer dia x 25 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8850	Male thread Tee for 28.58 mm outer dia X each 1.00 483.00 483.00 each		1.00	295.00	295.00
	20 mm nominal dia threaded				
	TOTAL				295.00
	Add Water Charges @ 1%				2.95
	TOTAL				297.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				41.86
	TOTAL				339.81 (Y)
	Add CPOH @ 15% on "Y"				50.97
	Cost of each				390.78
	add 1% labour cess				3.91
	Say				394.70
18.94.7	For 34.00 mm outer dia x 15 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8851	Male thread Tee for 34.00 mm outer dia X each 1.00 602.00 602.00 each		1.00	465.00	465.00
	15 mm nominal dia threaded				
	TOTAL				465.00
	Add Water Charges @ 1%				4.65
	TOTAL				469.65 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				65.99
	TOTAL				535.64 (Y)
	Add CPOH @ 15% on "Y"				80.35
	Cost of each				615.98
	add 1% labour cess				6.16
	Say				622.10
18.94.8	For 34.00 mm outer dia x 20 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8852	Male thread Tee for 34.00 mm outer dia X each 1.00 651.00 651.00 each		1.00	465.00	465.00
	20 mm nominal dia threaded				
	TOTAL				465.00
	Add Water Charges @ 1%				4.65
	TOTAL				469.65 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				65.99
	TOTAL				535.64 (Y)
	Add CPOH @ 15% on "Y"				80.35
	Cost of each				615.98
	add 1% labour cess				6.16
	Say				622.10
18.94.9	For 34.00 mm outer dia x 25 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8853	Male thread Tee for 34.00 mm outer dia X each 1.00 777.00 777.00 each		1.00	465.00	465.00
	25 mm nominal dia threaded				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				465.00
	Add Water Charges @ 1%				4.65
	TOTAL				469.65 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				65.99
	TOTAL				535.64 (Y)
	Add CPOH @ 15% on "Y"				80.35
	Cost of each				615.98
	add 1% labour cess				6.16
	Say				622.10
18.94.10	For 34.00 mm outer dia x 32 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8854	Male thread Tee for 34.00 mm outer dia X each 1.00 981.00 981.00	each	1.00	465.00	465.00
	32 mm nominal dia threaded				
	TOTAL				465.00
	Add Water Charges @ 1%				4.65
	TOTAL				469.65 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				65.99
	TOTAL				535.64 (Y)
	Add CPOH @ 15% on "Y"				80.35
	Cost of each				615.98
	add 1% labour cess				6.16
	Say				622.10
18.94.11	For 42.70 mm outer dia x 15 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8855	Male thread Tee for 42.70 mm outer dia X each 1.00 919.00 919.00	each	1.00	710.00	710.00
	15 mm nominal dia threaded				
	TOTAL				710.00
	Add Water Charges @ 1%				7.10
	TOTAL				717.10 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				100.75
	TOTAL				817.85 (Y)
	Add CPOH @ 15% on "Y"				122.68
	Cost of each				940.53
	add 1% labour cess				9.41
	Say				949.90
18.94.12	For 42.70 mm outer dia x 20 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8856	Male thread Tee for 42.70 mm outer dia X each 1.00 941.00 941.00	each	1.00	710.00	710.00
	20 mm nominal dia threaded				
	TOTAL				710.00
	Add Water Charges @ 1%				7.10
	TOTAL				717.10 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				100.75
	TOTAL				817.85 (Y)
	Add CPOH @ 15% on "Y"				122.68
	Cost of each				940.53
	add 1% labour cess				9.41
	Say				949.90
18.94.13	For 42.70 mm outer dia x 25 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8857	Male thread Tee for 42.70 mm outer dia X each 1.00 1024.00 1024.00	each	1.00	710.00	710.00
	25 mm nominal dia threaded				
	TOTAL				710.00














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Water Charges @ 1%				7.10
	TOTAL				717.10 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				100.75
	TOTAL				817.85 (Y)
	Add CPOH @ 15% on "Y"				122.68
	Cost of each				940.53
	add 1% labour cess				9.41
	Say				949.90
18.94.14	For 42.70 mm outer dia x 32 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8858	Male thread Tee for 42.70 mm outer dia X each 1.00 1137.00 1137.00	each	1.00	710.00	710.00
	32 mm nominal dia threaded				
	TOTAL				710.00
	Add Water Charges @ 1%				7.10
	TOTAL				717.10 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				100.75
	TOTAL				817.85 (Y)
	Add CPOH @ 15% on "Y"				122.68
	Cost of each				940.53
	add 1% labour cess				9.41
	Say				949.90
18.94.15	For 42.70 mm outer dia x 40 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8859	Male thread Tee for 42.70 mm outer dia X each 1.00 1381.00 1381.00	each	1.00	710.00	710.00
	40 mm nominal dia threaded				
	TOTAL				710.00
	Add Water Charges @ 1%				7.10
	TOTAL				717.10 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				100.75
	TOTAL				817.85 (Y)
	Add CPOH @ 15% on "Y"				122.68
	Cost of each				940.53
	add 1% labour cess				9.41
	Say				949.90
18.94.16	For 48.60 mm outer dia x 15 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8860	Male thread Tee for 48.60 mm outer dia X each 1.00 1000.00 1000.00	each	1.00	895.00	895.00
	15 mm nominal dia threaded				
	TOTAL				895.00
	Add Water Charges @ 1%				8.95
	TOTAL				903.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				127.00
	TOTAL				1030.95 (Y)
	Add CPOH @ 15% on "Y"				154.64
	Cost of each				1185.60
	add 1% labour cess				11.86
	Say				1197.50
18.94.17	For 48.60 mm outer dia x 20 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8861	Male thread Tee for 48.60 mm outer dia X each 1.00 1030.00 1030.00	each	1.00	895.00	895.00
	20 mm nominal dia threaded				
	TOTAL				895.00
	Add Water Charges @ 1%				8.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				903.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				127.00
	TOTAL				1030.95 (Y)
	Add CPOH @ 15% on "Y"				154.64
	Cost of each				1185.60
	add 1% labour cess				11.86
	Say				1197.50
18.94.18	For 48.60 mm outer dia x 25 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8862	Male thread Tee for 48.60 mm outer dia X each 1.00 1074.00 1074.00 each		1.00	895.00	895.00
	25 mm nominal dia threaded				
	TOTAL				895.00
	Add Water Charges @ 1%				8.95
	TOTAL				903.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				127.00
	TOTAL				1030.95 (Y)
	Add CPOH @ 15% on "Y"				154.64
	Cost of each				1185.60
	add 1% labour cess				11.86
	Say				1197.50
18.94.19	For 48.60 mm outer dia x 32 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8863	Male thread Tee for 48.60 mm outer dia X each 1.00 1290.00 1290.00 each		1.00	895.00	895.00
	32 mm nominal dia threaded				
	TOTAL				895.00
	Add Water Charges @ 1%				8.95
	TOTAL				903.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				127.00
	TOTAL				1030.95 (Y)
	Add CPOH @ 15% on "Y"				154.64
	Cost of each				1185.60
	add 1% labour cess				11.86
	Say				1197.50
18.94.20	For 48.60 mm outer dia x 40 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8864	Male thread Tee for 48.60 mm outer dia X each 1.00 1431.00 1431.00 each		1.00	895.00	895.00
	40 mm nominal dia threaded				
	TOTAL				895.00
	Add Water Charges @ 1%				8.95
	TOTAL				903.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				127.00
	TOTAL				1030.95 (Y)
	Add CPOH @ 15% on "Y"				154.64
	Cost of each				1185.60
	add 1% labour cess				11.86
	Say				1197.50
18.94.21	For 48.60 mm outer dia x 50 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8865	Male thread Tee for 48.60 mm outer dia X each 1.00 895.00 895.00 each		1.00	895.00	895.00
	50 mm nominal dia threaded				
	TOTAL				895.00
	Add Water Charges @ 1%				8.95














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				903.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				127.00
	TOTAL				1030.95 (Y)
	Add CPOH @ 15% on "Y"				154.64
	Cost of each				1185.60
	add 1% labour cess				11.86
	Say				1197.50
18.95	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer in-charge.				
	Female Thread Tee.				
18.95.1	For 15.88 mm outer dia x15 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8866	Female thread Tee for 15.88 mm outer dia X each 1.00 292.00 292.00 each		1.00	185.00	185.00
	15 mm nominal dia threaded				
	TOTAL				185.00
	Add Water Charges @ 1%				1.85
	TOTAL				186.85 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				26.25
	TOTAL				213.10 (Y)
	Add CPOH @ 15% on "Y"				31.97
	Cost of each				245.07
	add 1% labour cess				2.45
	Say				247.50
18.95.2	For 22.22 mm outer dia x 15 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8867	Female thread Tee for 22.22 mm outer dia X each 1.00 344.00 344.00 each		1.00	205.00	205.00
	15 mm nominal dia threaded				
	TOTAL				205.00
	Add Water Charges @ 1%				2.05
	TOTAL				207.05 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				29.09
	TOTAL				236.14 (Y)
	Add CPOH @ 15% on "Y"				35.42
	Cost of each				271.56
	add 1% labour cess				2.72
	Say				274.30
18.95.3	For 22.22 mm outer dia x 20 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8868	Female thread Tee for 22.22 mm outer dia X each 1.00 356.00 356.00 each		1.00	205.00	205.00
	20 mm nominal dia threaded				
	TOTAL				205.00
	Add Water Charges @ 1%				2.05
	TOTAL				207.05 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				29.09
	TOTAL				236.14 (Y)
	Add CPOH @ 15% on "Y"				35.42
	Cost of each				271.56
	add 1% labour cess				2.72
	Say				274.30
18.95.4	For 28.58 mm outer dia x 15 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8869	Female thread Tee for 28.58 mm outer dia X each 1.00 445.00 445.00 each	each	1.00	275.00	275.00
	15 mm nominal dia threaded				
	TOTAL				275.00
	Add Water Charges @ 1%				2.75
	TOTAL				277.75 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				39.02
	TOTAL				316.77 (Y)
	Add CPOH @ 15% on "Y"				47.52
	Cost of each				364.29
	add 1% labour cess				3.64
	Say				367.90
18.95.5	For 28.58 mm outer dia x 20 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8870	Female thread Tee for 28.58 mm outer dia X each 1.00 455.00 455.00 each	each	1.00	275.00	275.00
	20 mm nominal dia threaded				
	TOTAL				275.00
	Add Water Charges @ 1%				2.75
	TOTAL				277.75 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				39.02
	TOTAL				316.77 (Y)
	Add CPOH @ 15% on "Y"				47.52
	Cost of each				364.29
	add 1% labour cess				3.64
	Say				367.90
18.95.6	For 28.58 mm outer dia x 25 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8871	Female thread Tee for 28.58 mm outer dia X each 1.00 498.00 498.00 each	each	1.00	275.00	275.00
	25 mm nominal dia threaded				
	TOTAL				275.00
	Add Water Charges @ 1%				2.75
	TOTAL				277.75 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				39.02
	TOTAL				316.77 (Y)
	Add CPOH @ 15% on "Y"				47.52
	Cost of each				364.29
	add 1% labour cess				3.64
	Say				367.90
18.95.7	For 34.00 mm outer dia x 15 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8872	Female thread Tee for 34.00 mm outer dia X each 1.00 668.00 668.00 each	each	1.00	445.00	445.00
	15 mm nominal dia threaded				
	TOTAL				445.00
	Add Water Charges @ 1%				4.45
	TOTAL				449.45 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				63.15
	TOTAL				512.60 (Y)
	Add CPOH @ 15% on "Y"				76.89
	Cost of each				589.49
	add 1% labour cess				5.89
	Say				595.40
18.95.8	For 34.00 mm outer dia x 20 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8873	Female thread Tee for 34.00 mm outer dia X each 1.00 679.00 679.00 each	each	1.00	445.00	445.00












Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	20 mm nominal dia threaded				
	TOTAL				445.00
	Add Water Charges @ 1%				4.45
	TOTAL				449.45 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				63.15
	TOTAL				512.60 (Y)
	Add CPOH @ 15% on "Y"				76.89
	Cost of each				589.49
	add 1% labour cess				5.89
	Say				595.40
18.95.9	For 34.00 mm outer dia x 25 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8874	Female thread Tee for 34.00 mm outer dia X each 1.00 766.00 766.00	each	1.00	445.00	445.00
	25 mm nominal dia threaded				
	TOTAL				445.00
	Add Water Charges @ 1%				4.45
	TOTAL				449.45 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				63.15
	TOTAL				512.60 (Y)
	Add CPOH @ 15% on "Y"				76.89
	Cost of each				589.49
	add 1% labour cess				5.89
	Say				595.40
18.95.10	For 34.00 mm outer dia x 32 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8875	Female thread Tee for 34.00 mm outer dia X each 1.00 910.00 910.00	each	1.00	445.00	445.00
	32 mm nominal dia threaded				
	TOTAL				445.00
	Add Water Charges @ 1%				4.45
	TOTAL				449.45 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				63.15
	TOTAL				512.60 (Y)
	Add CPOH @ 15% on "Y"				76.89
	Cost of each				589.49
	add 1% labour cess				5.89
	Say				595.40
18.95.11	For 42.70 mm outer dia x 15 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8876	Female thread Tee for 42.70 mm outer dia X each 1.00 894.00 894.00	each	1.00	700.00	700.00
	15 mm nominal dia threaded				
	TOTAL				700.00
	Add Water Charges @ 1%				7.00
	TOTAL				707.00 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				99.33
	TOTAL				806.33 (Y)
	Add CPOH @ 15% on "Y"				120.95
	Cost of each				927.28
	add 1% labour cess				9.27
	Say				936.60
18.95.12	For 42.70 mm outer dia x 20 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8877	Female thread Tee for 42.70 mm outer dia X each 1.00 910.00 910.00	each	1.00	700.00	700.00
	20 mm nominal dia threaded				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				700.00
	Add Water Charges @ 1%				7.00
	TOTAL				707.00 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				99.33
	TOTAL				806.33 (Y)
	Add CPOH @ 15% on "Y"				120.95
	Cost of each				927.28
	add 1% labour cess				9.27
	Say				936.60
18.95.13	For 42.70 mm outer dia x 25 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8878	Female thread Tee for 42.70 mm outer dia X each 1.00 1022.00 1022.00 each		1.00	700.00	700.00
	25 mm nominal dia threaded				
	TOTAL				700.00
	Add Water Charges @ 1%				7.00
	TOTAL				707.00 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				99.33
	TOTAL				806.33 (Y)
	Add CPOH @ 15% on "Y"				120.95
	Cost of each				927.28
	add 1% labour cess				9.27
	Say				936.60
18.95.14	For 42.70 mm outer dia x 32 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8879	Female thread Tee for 42.70 mm outer dia X each 1.00 1067.00 1067.00 each		1.00	700.00	700.00
	32 mm nominal dia threaded				
	TOTAL				700.00
	Add Water Charges @ 1%				7.00
	TOTAL				707.00 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				99.33
	TOTAL				806.33 (Y)
	Add CPOH @ 15% on "Y"				120.95
	Cost of each				927.28
	add 1% labour cess				9.27
	Say				936.60
18.95.15	For 42.70 mm outer dia x 40 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8880	Female thread Tee for 42.70 mm outer dia X each 1.00 1162.00 1162.00 each		1.00	700.00	700.00
	40 mm nominal dia threaded				
	TOTAL				700.00
	Add Water Charges @ 1%				7.00
	TOTAL				707.00 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				99.33
	TOTAL				806.33 (Y)
	Add CPOH @ 15% on "Y"				120.95
	Cost of each				927.28
	add 1% labour cess				9.27
	Say				936.60
18.95.16	For 48.60 mm outer dia x 15 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8881	Female thread Tee for 48.60 mm outer dia X each 1.00 1065.00 1065.00 each		1.00	905.00	905.00
	15 mm nominal dia threaded				
	TOTAL				905.00














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Water Charges @ 1%				9.05
	TOTAL				914.05 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				128.42
	TOTAL				1042.47 (Y)
	Add CPOH @ 15% on "Y"				156.37
	Cost of each				1198.85
	add 1% labour cess				11.99
	Say				1210.80
18.95.17	For 48.60 mm outer dia x 20 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8882	Female thread Tee for 48.60 mm outer dia X each 1.00 1076.00 1076.00 each		1.00	905.00	905.00
	20 mm nominal dia threaded				
	TOTAL				905.00
	Add Water Charges @ 1%				9.05
	TOTAL				914.05 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				128.42
	TOTAL				1042.47 (Y)
	Add CPOH @ 15% on "Y"				156.37
	Cost of each				1198.85
	add 1% labour cess				11.99
	Say				1210.80
18.95.18	For 48.60 mm outer dia x 25 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8883	Female thread Tee for 48.60 mm outer dia X each 1.00 1115.00 1115.00 each		1.00	905.00	905.00
	25 mm nominal dia threaded				
	TOTAL				905.00
	Add Water Charges @ 1%				9.05
	TOTAL				914.05 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				128.42
	TOTAL				1042.47 (Y)
	Add CPOH @ 15% on "Y"				156.37
	Cost of each				1198.85
	add 1% labour cess				11.99
	Say				1210.80
18.95.19	For 48.60 mm outer dia x 32 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8884	Female thread Tee for 48.60 mm outer dia X each 1.00 905.00 905.00 each	each	1.00	905.00	905.00
	32 mm nominal dia threaded				
	TOTAL				905.00
	Add Water Charges @ 1%				9.05
	TOTAL				914.05 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				128.42
	TOTAL				1042.47 (Y)
	Add CPOH @ 15% on "Y"				156.37
	Cost of each				1198.85
	add 1% labour cess				11.99
	Say				1210.80
18.95.20	For 48.60 mm outer dia x 40 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8885	Female thread Tee for 48.60 mm outer dia X each 1.00 905.00 905.00 each	each	1.00	905.00	905.00
	40 mm nominal dia threaded				
	TOTAL				905.00
	Add Water Charges @ 1%				9.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				914.05 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				128.42
	TOTAL				1042.47 (Y)
	Add CPOH @ 15% on "Y"				156.37
	Cost of each				1198.85
	add 1% labour cess				11.99
	Say				1210.80
18.95.21	For 48.60 mm outer dia x 50 mm nominal dia threaded.				
	Details of cost for One no.				
	MATERIAL:				
8885	Female thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1.00	905.00	905.00
	TOTAL				905.00
	Add Water Charges @ 1%				9.05
	TOTAL				914.05 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				128.42
	TOTAL				1042.47 (Y)
	Add CPOH @ 15% on "Y"				156.37
	Cost of each				1198.85
	add 1% labour cess				11.99
	Say				1210.80
18.95A	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911: 18.95A 2017 and conforming to EN-10312 standards with V-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Female Thread Tee				
18.95A.1	For 15 mm outer dia x 1/2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3916	Stainless steel Female thread Tee for 15 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1.00	560.00	560.00
	TOTAL				560.00 W
	Add 1 % Water charges on "W"				5.60 X
	TOTAL				565.60
	Add GST on "X" (multiplying factor 0.1405)				79.47 Y
	TOTAL				645.07
	Add 15% CPOH on "y"				96.76 Z
	TOTAL				741.83
	Add Cess @ 1% on "Z"				7.42
	Cost of 1 no				749.20
	Say				
18.95A.2	For 22mm outer dia x 1/2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3917	Stainless steel Female thread Tee for 22 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	615.00	615.00
	TOTAL				615.00 W
	Add 1 % Water charges on "W"				6.15 X
	TOTAL				621.15
	Add GST on "X" (multiplying factor 0.1405)				87.27 Y
	TOTAL				708.42
	Add 15% CPOH on "y"				106.26 Z
	TOTAL				














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				814.68
	Cost of 1 no				8.15
	Say				822.80
18.95A.3	For 22mm outer dia x 3/4" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3918	Stainless steel Female thread Tee for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	690.00	690.00
	TOTAL				W
	Add 1 % Water charges on "W"				690.00
	TOTAL				6.90 X
	Add GST on "X" (multiplying factor 0.1405)				696.90
	TOTAL				97.91 Y
	Add 15% CPOH on "y"				794.81
	TOTAL				119.22 Z
	Add Cess @ 1% on "Z"				914.04
	Cost of 1 no				9.14
	Say				923.20
18.95A.4	For 28 mm outer dia x 1/2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3919	Stainless steel Female thread Tee for 28 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	730.00	730.00
	TOTAL				W
	Add 1 % Water charges on "W"				730.00
	TOTAL				7.30 X
	Add GST on "X" (multiplying factor 0.1405)				737.30
	TOTAL				103.59 Y
	Add 15% CPOH on "y"				840.89
	TOTAL				126.13 Z
	Add Cess @ 1% on "Z"				967.02
	Cost of 1 no				9.67
	Say				976.70
18.95A.5	For 28 mm outer dia x 3/4" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3920	Stainless steel Female thread Tee for 28 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	755.00	755.00
	TOTAL				W
	Add 1 % Water charges on "W"				755.00
	TOTAL				7.55 X
	Add GST on "X" (multiplying factor 0.1405)				762.55
	TOTAL				107.14 Y
	Add 15% CPOH on "y"				869.69
	TOTAL				130.45 Z
	Add Cess @ 1% on "Z"				1000.14
	Cost of 1 no				10.00
	Say				1010.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.95A.6	For 28 mm outer dia x 1" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3921	Stainless steel Female thread Tee for 28 mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	840.00	840.00
	TOTAL				W
	Add 1 % Water charges on "W"				840.00
	TOTAL				8.40 X
	Add GST on "X" (multiplying factor 0.1405)				848.40
	TOTAL				119.20 Y
	Add 15% CPOH on "y"				967.60
	TOTAL				145.14 Z
	Add Cess @ 1% on "Z"				1112.74
	Cost of 1 no				11.13
	Say				1123.90
18.95A.7	For 35 mm outer dia x 1/2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3922	Stainless steel Female thread Tee for 35 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	845.00	845.00
	TOTAL				W
	Add 1 % Water charges on "W"				845.00
	TOTAL				8.45 X
	Add GST on "X" (multiplying factor 0.1405)				853.45
	TOTAL				119.91 Y
	Add 15% CPOH on "y"				973.36
	TOTAL				146.00 Z
	Add Cess @ 1% on "Z"				1119.36
	Cost of 1 no				11.19
	Say				1130.60
18.95A.8	For 35 mm outer dia x 1-1/4" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3923	Stainless steel Female thread Tee for 35 mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	1159.00	1159.00
	TOTAL				W
	Add 1 % Water charges on "W"				1159.00
	TOTAL				11.59 X
	Add GST on "X" (multiplying factor 0.1405)				1170.59
	TOTAL				164.47 Y
	Add 15% CPOH on "y"				1335.06
	TOTAL				200.26 Z
	Add Cess @ 1% on "Z"				1535.32
	Cost of 1 no				15.35
	Say				1550.70
18.95A.9	For 42 mm outer dia x 1-1/4" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				










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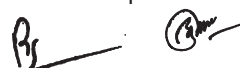




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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3924	Stainless steel Female thread Tee for 42 mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1.00	1346.00	1346.00
	TOTAL				W 1346.00
	Add 1 % Water charges on "W"				13.46 X
	TOTAL				1359.46
	Add GST on "X" (multiplying factor 0.1405)				191.00 Y
	TOTAL				1550.46
	Add 15% CPOH on "y"				232.57 Z
	TOTAL				1783.03
	Add Cess @ 1% on "Z"				17.83
	Cost of 1 no				1800.90
	Say				
18.95A.10	For 54 mm outer dia x 1-1/2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3925	Stainless steel Female thread Tee for 54 mm outer dia X 1-1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	1920.00	1920.00
	TOTAL				W 1920.00
	Add 1 % Water charges on "W"				19.20 X
	TOTAL				1939.20
	Add GST on "X" (multiplying factor 0.1405)				272.46 Y
	TOTAL				2211.66
	Add 15% CPOH on "y"				331.75 Z
	TOTAL				2543.41
	Add Cess @ 1% on "Z"				25.43
	Cost of 1 no				2568.80
	Say				
18.95A.11	For 54 mm outer dia x 2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3926	Stainless steel Female thread Tee for 54 mm outer dia X 2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1.00	2307.00	2307.00
	TOTAL				W 2307.00
	Add 1 % Water charges on "W"				23.07 X
	TOTAL				2330.07
	Add GST on "X" (multiplying factor 0.1405)				327.37 Y
	TOTAL				2657.44
	Add 15% CPOH on "y"				398.62 Z
	TOTAL				3056.06
	Add Cess @ 1% on "Z"				30.56
	Cost of 1 no				3086.60
	Say				
18.96	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Female Thread Connector/ Adapter.				
18.96.1	For 15.88 mm outer dia x 15 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8887	Female threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal threaded	each	1.00	195.00	195.00
	TOTAL				195.00
	Add Water Charges @ 1%				1.95
	TOTAL				196.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				27.67
	TOTAL				224.62 (Y)
	Add CPOH @ 15% on "Y"				33.69
	Cost of each				258.31
	add 1% labour cess				2.58
	Say				260.90
18.96.2	For 22.22 mm outer dia x 15 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8888	Female threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal threaded	each	1	230.00	230.00
	TOTAL				230.00
	Add Water Charges @ 1%				2.30
	TOTAL				232.30 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				32.64
	TOTAL				264.94 (Y)
	Add CPOH @ 15% on "Y"				39.74
	Cost of each				304.68
	add 1% labour cess				3.05
	Say				307.70
18.96.3	For 22.22 mm outer dia x 20 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8889	Female threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal threaded	each	1	240.00	240.00
	TOTAL				240.00
	Add Water Charges @ 1%				2.40
	TOTAL				242.40 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				34.06
	TOTAL				276.46 (Y)
	Add CPOH @ 15% on "Y"				41.47
	Cost of each				317.93
	add 1% labour cess				3.18
	Say				321.10
18.96.4	For 28.58 mm outer dia x 15 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8890	Female threaded Connector/Adapter for 28.58 mm outer dia X 15 mm nominal threaded	each	1	277.00	277.00
	TOTAL				277.00
	Add Water Charges @ 1%				2.77
	TOTAL				279.77 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				39.31
	TOTAL				319.08 (Y)
	Add CPOH @ 15% on "Y"				47.86
	Cost of each				366.94
	add 1% labour cess				3.67
	Say				370.60
18.96.5	For 28.58 mm outer dia x 20 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8891	Female threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded	each	1	290.00	290.00

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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	mm outer dia X 20 mm nominal threaded				
	TOTAL				290.00
	Add Water Charges @ 1%				2.90
	TOTAL				292.90 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				41.15
	TOTAL				334.05 (Y)
	Add CPOH @ 15% on "Y"				50.11
	Cost of each				384.16
	add 1% labour cess				3.84
	Say				388.00
18.96.6	For 28.58 mm outer dia x 25 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8892	Female threaded Connector/Adapter for 28.58 mm outer dia X 25 mm nominal threaded	each	1	355.00	355.00
	TOTAL				355.00
	Add Water Charges @ 1%				3.55
	TOTAL				358.55 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				50.38
	TOTAL				408.93 (Y)
	Add CPOH @ 15% on "Y"				61.34
	Cost of each				470.27
	add 1% labour cess				4.70
	Say				475.00
18.96.7	For 34.00 mm outer dia x 25 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8893	Female threaded Connector/Adapter for 34.00 mm outer dia X 25 mm nominal threaded	each	1	410.00	410.00
	TOTAL				410.00
	Add Water Charges @ 1%				4.10
	TOTAL				414.10 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				58.18
	TOTAL				472.28 (Y)
	Add CPOH @ 15% on "Y"				70.84
	Cost of each				543.12
	add 1% labour cess				5.43
	Say				548.60
18.96.8	For 34.00 mm outer dia x 32 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8894	Female threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded	each	1	540.00	540.00
	TOTAL				540.00
	Add Water Charges @ 1%				5.40
	TOTAL				545.40 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				76.63
	TOTAL				622.03 (Y)
	Add CPOH @ 15% on "Y"				93.30
	Cost of each				715.33
	add 1% labour cess				7.15
	Say				722.50
18.96.9	For 42.70 mm outer dia x 32 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8895	Female threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	1	595.00	595.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				595.00
	Add Water Charges @ 1%				5.95
	TOTAL				600.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				84.43
	TOTAL				685.38 (Y)
	Add CPOH @ 15% on "Y"				102.81
	Cost of each				788.19
	add 1% labour cess				7.88
	Say				796.10
18.96.10	For 42.70 mm outer dia x 40 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8896	Female threaded Connector/Adapter for 42.70 mm outer dia X 40 mm nominal threaded	each	1	695.00	695.00
	TOTAL				695.00
	Add Water Charges @ 1%				6.95
	TOTAL				701.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				98.62
	TOTAL				800.57 (Y)
	Add CPOH @ 15% on "Y"				120.09
	Cost of each				920.66
	add 1% labour cess				9.21
	Say				929.90
18.96.11	For 48.60 mm outer dia x 40 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8897	Female threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded	each	1	845.00	845.00
	TOTAL				845.00
	Add Water Charges @ 1%				8.45
	TOTAL				853.45 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				119.91
	TOTAL				973.36 (Y)
	Add CPOH @ 15% on "Y"				146.00
	Cost of each				1119.36
	add 1% labour cess				11.19
	Say				1130.60
18.96.12	For 48.60 mm outer dia x 50 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8897	Female threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded	each	1.00	845.00	845.00
	TOTAL				845.00
	Add Water Charges @ 1%				8.45
	TOTAL				853.45 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				119.91
	TOTAL				973.36 (Y)
	Add CPOH @ 15% on "Y"				146.00
	Cost of each				1119.36
	add 1% labour cess				11.19
	Say				1130.60
18.96A	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911:2017 and conforming to EN-10312 standards with V-profile and with'O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge				

Female Thread Connector/ Adapter














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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.96A.1	For 15 mm outer dia x 1/2" mm nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3927	Stainless steel Female threaded 4	each	1.00	440.00	440.00
	Connector/Adapter for 15 mm outer dia X1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312				
	TOTAL				440.00 W
	Add 1 % Water charges on "W"				4.4
	TOTAL				444.40 X
	Add GST on "X" (multiplying factor 0.1405)				62.44
	TOTAL				506.84 Y
	Add 15% CPOH on "y"				76.026
	TOTAL				582.86 Z
	Add Cess @ 1% on "Z"				5.83
	Cost of 1 no				588.69
	Say				588.70
18.96A.2	For 22 mm outer dia x1/2" mm nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3928	Stainless steel Female threaded each		1	495.00	495.00
	Connector/ Adapter for 22 mm outer dia X t 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312				
	TOTAL				495.00 W
	Add 1 % Water charges on "W"				4.95
	TOTAL				499.95 X
	Add GST on "X" (multiplying factor 0.1405)				70.24
	TOTAL				570.19 Y
	Add 15% CPOH on "y"				85.529
	TOTAL				655.72 Z
	Add Cess @ 1% on "Z"				6.56
	Cost of 1 no				662.28
	Say				662.30
18.96A.3	For 22 mm outer dia x 3/4" mm nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3929	Stainless steel Female threaded each		1	580.00	580.00
	Connector/Adapter for 22 mm outer dia X 2/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312				
	TOTAL				580.00 W
	Add 1 % Water charges on "W"				5.8
	TOTAL				585.80 X
	Add GST on "X" (multiplying factor 0.1405)				82.30
	TOTAL				668.10 Y
	Add 15% CPOH on "y"				100.216
	TOTAL				768.32 Z
	Add Cess @ 1% on "Z"				7.68
	Cost of 1 no				776.00
	Say				776.00
18.96A.4	For 28 mm outer dia X 1" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3930	Stainless steel Female threaded Connector/Adapter for 28 mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	955.00	955.00
	TOTAL				955.00 W
	Add 1 % Water charges on "W"				9.55
	TOTAL				964.55 X
	Add GST on "X" (multiplying factor 0.1405)				135.52
	TOTAL				1100.07 Y
	Add 15% CPOH on "y"				165.010
	TOTAL				1265.08 Z
	Add Cess @ 1% on "Z"				12.65
	Cost of 1 no				1277.73
	Say				1277.70
18.96A.5	For 35 mm outer dia X 1-1/4" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3931	Stainless steel Female threaded Connector/ Adapter for 35 mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	1020.00	1020.00
	TOTAL				1020.00 W
	Add 1 % Water charges on "W"				10.2
	TOTAL				1030.20 X
	Add GST on "X" (multiplying factor 0.1405)				144.74
	TOTAL				1174.94 Y
	Add 15% CPOH on "y"				176.241
	TOTAL				1351.18 Z
	Add Cess @ 1% on "Z"				13.51
	Cost of 1 no				1364.70
	Say				1364.70
18.96A.6	For 42 mm outer dia X 1-1/2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3932	Stainless steel Female threaded Connector/ Adapter for 42 mm outer dia X 1-1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	1565.00	1565.00
	TOTAL				1565.00 W
	Add 1 % Water charges on "W"				15.65
	TOTAL				1580.65 X
	Add GST on "X" (multiplying factor 0.1405)				222.08
	TOTAL				1802.73 Y
	Add 15% CPOH on "y"				270.410
	TOTAL				2073.14 Z
	Add Cess @ 1% on "Z"				20.73
	Cost of 1 no				2093.87
	Say				2093.90
18.96A.7	For 54 mm outer dia X 2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3933	Stainless steel Female threaded Connector/ Adapter for 54 mm outer dia x 2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	2400.00	2400.00














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2400.00 W
	Add 1 % Water charges on "W"				24
	TOTAL				2424.00 X
	Add GST on "X" (multiplying factor 0.1405)				340.57
	TOTAL				2764.57 Y
	Add 15% CPOH on "y"				414.686
	TOTAL				3179.26 Z
	Add Cess @ 1% on "Z"				31.79
	Cost of 1 no				3211.05
	Say				3211.10
18.97	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Male Thread Connector/ Adapter.				
18.97.1	For 15.88 mm outer dia x 15 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8899	Male threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal threaded	each	1	195.00	195.00
	TOTAL				195.00
	Add Water Charges @ 1%				1.95
	TOTAL				196.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				27.67
	TOTAL				224.62 (Y)
	Add CPOH @ 15% on "Y"				33.69
	Cost of each				258.31
	add 1% labour cess				2.58
	Say				260.90
18.97.2	For 22.22 mm outer dia x 15 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8900	Male threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal threaded	each	1	230.00	230.00
	TOTAL				230.00
	Add Water Charges @ 1%				2.30
	TOTAL				232.30 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				32.64
	TOTAL				264.94 (Y)
	Add CPOH @ 15% on "Y"				39.74
	Cost of each				304.68
	add 1% labour cess				3.05
	Say				307.70
18.97.3	For 22.22 mm outer dia x 20 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8901	Male threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal threaded	each	1	255.00	255.00
	TOTAL				255.00
	Add Water Charges @ 1%				2.55
	TOTAL				257.55 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				36.19
	TOTAL				293.74 (Y)
	Add CPOH @ 15% on "Y"				44.06
	Cost of each				337.80
	add 1% labour cess				3.38
	Say				341.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.97.4	For 28.58 mm outer dia x 20 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8902	Male threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded	each	1	325.00	325.00
	TOTAL				325.00
	Add Water Charges @ 1%				3.25
	TOTAL				328.25 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				46.12
	TOTAL				374.37 (Y)
	Add CPOH @ 15% on "Y"				56.16
	Cost of each				430.52
	add 1% labour cess				4.31
	Say				434.80
18.97.5	For 28.58 mm outer dia x 25 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8903	Male threaded Connector/Adapter for 28.58 mm outer dia X 25 mm nominal threaded	each	1	325.00	325.00
	TOTAL				325.00
	Add Water Charges @ 1%				3.25
	TOTAL				328.25 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				46.12
	TOTAL				374.37 (Y)
	Add CPOH @ 15% on "Y"				56.16
	Cost of each				430.52
	add 1% labour cess				4.31
	Say				434.80
18.97.6	For 34.00 mm outer dia x 25 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8904	Male threaded Connector/Adapter for 34.00 mm outer dia X 25 mm nominal threaded	each	1	475.00	475.00
	TOTAL				475.00
	Add Water Charges @ 1%				4.75
	TOTAL				479.75 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				67.40
	TOTAL				547.15 (Y)
	Add CPOH @ 15% on "Y"				82.07
	Cost of each				629.23
	add 1% labour cess				6.29
	Say				635.50
18.97.7	For 34.00 mm outer dia x 32 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8905	Male threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded	each	1	565.00	565.00
	TOTAL				565.00
	Add Water Charges @ 1%				5.65
	TOTAL				570.65 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				80.18
	TOTAL				650.83 (Y)
	Add CPOH @ 15% on "Y"				97.62
	Cost of each				748.45
	add 1% labour cess				7.48
	Say				755.90














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.97.8	For 42.70 mm outer dia x 32 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8906	Male threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	1	649.00	649.00
	TOTAL				649.00
	Add Water Charges @ 1%				6.49
	TOTAL				655.49 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				92.10
	TOTAL				747.59 (Y)
	Add CPOH @ 15% on "Y"				112.14
	Cost of each				859.72
	add 1% labour cess				8.60
	Say				868.30
18.97.9	For 42.70 mm outer dia x 40 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8907	Male threaded Connector/Adapter for 42.70 mm outer dia X 40 mm nominal threaded	each	1	730.00	730.00
	TOTAL				730.00
	Add Water Charges @ 1%				7.30
	TOTAL				737.30 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				103.59
	TOTAL				840.89 (Y)
	Add CPOH @ 15% on "Y"				126.13
	Cost of each				967.02
	add 1% labour cess				9.67
	Say				976.70
18.97.10	For 48.60 mm outer dia x 40 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8908	Male threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded	each	1	850.00	850.00
	TOTAL				850.00
	Add Water Charges @ 1%				8.50
	TOTAL				858.50 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				120.62
	TOTAL				979.12 (Y)
	Add CPOH @ 15% on "Y"				146.87
	Cost of each				1125.99
	add 1% labour cess				11.26
	Say				1137.20
18.97.11	For 48.60 mm outer dia x 50 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8909	Male threaded Connector/Adapter for 48.60 mm outer dia X 50 mm nominal threaded	each	1	1140.00	1140.00
	TOTAL				1140.00
	Add Water Charges @ 1%				11.40
	TOTAL				1151.40 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				161.77
	TOTAL				1313.17 (Y)
	Add CPOH @ 15% on "Y"				196.98
	Cost of each				1510.15
	add 1% labour cess				15.10
	Say				1525.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.97A	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard with V-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Male Thread Connector/ Adapter				
18.97A.1	For 15 mm outer dia X 1/2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3934	Stainless steel Male threaded Connector/ Adapter for 15 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	405.00	405.00
	TOTAL				405.00 W
	Add 1 % Water charges on "W"				4.05
	TOTAL				409.05 X
	Add GST on "X" (multiplying factor 0.1405)				57.47
	TOTAL				466.52 Y
	Add 15% CPOH on "y"				69.978
	TOTAL				536.50 Z
	Add Cess @ 1% on "Z"				5.36
	Cost of 1 no				541.86
	Say				541.90
18.97A.2	For 22 mm outer dia X 1/2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3935	Stainless steel Male threaded Connector/ Adapter for 22 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	480.00	480.00
	TOTAL				480.00 W
	Add 1 % Water charges on "W"				4.8
	TOTAL				484.80 X
	Add GST on "X" (multiplying factor 0.1405)				68.11
	TOTAL				552.91 Y
	Add 15% CPOH on "y"				82.937
	TOTAL				635.85 Z
	Add Cess @ 1% on "Z"				6.36
	Cost of 1 no				642.21
	Say				642.20
18.97A.3	For 22 mm outer dia X 3/4" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3936	Stainless steel Male threaded Connector/ Adapter for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	505.00	505.00
	TOTAL				505.00 W
	Add 1 % Water charges on "W"				5.05
	TOTAL				510.05 X
	Add GST on "X" (multiplying factor 0.1405)				71.66
	TOTAL				581.71 Y
	Add 15% CPOH on "y"				87.257
	TOTAL				668.97 Z
	Add Cess @ 1% on "Z"				6.69
	Cost of 1 no				675.66
	Say				675.70












Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.97A.4	For 28 mm outer dia X 1" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3937	Stainless steel Male threaded Connector/ each Adapter for 28 mm outer dia X1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312		1	665.00	665.00
	TOTAL				665.00 W
	Add 1 % Water charges on "W"				6.65
	TOTAL				671.65 X
	Add GST on "X" (multiplying factor 0.1405)				94.37
	TOTAL				766.02 Y
	Add 15% CPOH on "y"				114.903
	TOTAL				880.92 Z
	Add Cess @ 1% on "Z"				8.81
	Cost of 1 no				889.73
	Say				889.70
18.97A.5	For 35 mm outer dia X 1-1/4" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3938	Stainless steel Male threaded Connector/ each Adapter for 35 mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312		1	970.00	970.00
	TOTAL				970.00 W
	Add 1 % Water charges on "W"				9.7
	TOTAL				979.70 X
	Add GST on "X" (multiplying factor 0.1405)				137.65
	TOTAL				1117.35 Y
	Add 15% CPOH on "y"				167.602
	TOTAL				1284.95 Z
	Add Cess @ 1% on "Z"				12.85
	Cost of 1 no				1297.80
	Say				1297.80
18.97A.6	For 42 mm outer dia X 1-1/2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3939	Stainless steel Male threaded Connector/ each Adapter for 42 mm outer dia X 1-1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312		1	1415.00	1415.00
	TOTAL				1415.00 W
	Add 1 % Water charges on "W"				14.15
	TOTAL				1429.15 X
	Add GST on "X" (multiplying factor 0.1405)				200.80
	TOTAL				1629.95 Y
	Add 15% CPOH on "y"				244.492
	TOTAL				1874.44 Z
	Add Cess @ 1% on "Z"				18.74
	Cost of 1 no				1893.18
	Say				1893.20
18.97A.7	For 54 mm outer dia X2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3940	Stainless steel Male threaded Connector/, each Adapter for 54 mm outer dia X 2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312		1	1895.00	1895.00
	TOTAL				1895.00 W
	Add 1 % Water charges on "W"				18.95
	TOTAL				1913.95 X
	Add GST on "X" (multiplying factor 0.1405)				268.91
	TOTAL				2182.86 Y
	Add 15% CPOH on "y"				327.429
	TOTAL				2510.29 Z
	Add Cess @ 1% on "Z"				25.10
	Cost of 1 no				2535.39
	Say				2535.40
18.98	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Valve Connector.				
18.98.1	For 15.88 mm outer dia x 15 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8910	Valve Connector for 15.88 mm outer dia X 15 mm nominal dia threaded	each	1.00	235.00	235.00
	TOTAL				235.00
	Add Water Charges @ 1%				2.35
	TOTAL				237.35 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				33.35
	TOTAL				270.70 (Y)
	Add CPOH @ 15% on "Y"				40.60
	Cost of each				311.30
	add 1% labour cess				3.11
	Say				314.40
18.98.2	For 22.22 mm outer dia x 15 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8911	Valve Connector for 22.22 mm outer dia X 15 mm nominal dia threaded	each	1.00	280.00	280.00
	TOTAL				280.00
	Add Water Charges @ 1%				2.80
	TOTAL				282.80 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				39.73
	TOTAL				322.53 (Y)
	Add CPOH @ 15% on "Y"				48.38
	Cost of each				370.91
	add 1% labour cess				3.71
	Say				374.60
18.98.3	For 22.22 mm outer dia x 20 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8912	Valve Connector for 22.22 mm outer dia X 20 mm nominal dia threaded	each	1.00	310.00	310.00
	TOTAL				310.00
	Add Water Charges @ 1%				3.10
	TOTAL				313.10 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				43.99
	TOTAL				357.09 (Y)














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add CPOH @ 15% on "Y"				53.56
	Cost of each				410.65
	add 1% labour cess				4.11
	Say				414.80
18.98.4	For 28.58 mm outer dia x 25 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8913	Valve Connector for 28.58 mm outer dia X 25 mm nominal dia threaded	each	1.00	425.00	425.00
	TOTAL				425.00
	Add Water Charges @ 1%				4.25
	TOTAL				429.25 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				60.31
	TOTAL				489.56 (Y)
	Add CPOH @ 15% on "Y"				73.43
	Cost of each				562.99
	add 1% labour cess				5.63
	Say				568.60
18.98.5	For 34.00 mm outer dia x 32 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8914	Valve Connector for 34.00 mm outer dia X 32 mm nominal dia threaded	each	1.00	645.00	645.00
	TOTAL				645.00
	Add Water Charges @ 1%				6.45
	TOTAL				651.45 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				91.53
	TOTAL				742.98 (Y)
	Add CPOH @ 15% on "Y"				111.45
	Cost of each				854.43
	add 1% labour cess				8.54
	Say				863.00
18.98.6	For 42.70 mm outer dia x 40 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8915	Valve Connector for 42.70 mm outer dia X 40 mm nominal dia threaded	each	1.00	880.00	880.00
	TOTAL				880.00
	Add Water Charges @ 1%				8.80
	TOTAL				888.80 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				124.88
	TOTAL				1013.68 (Y)
	Add CPOH @ 15% on "Y"				152.05
	Cost of each				1165.73
	add 1% labour cess				11.66
	Say				1177.40
18.98.7	For 48.60 mm outer dia x 50 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8916	Valve Connector for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1.00	1210.00	1210.00
	TOTAL				1210.00
	Add Water Charges @ 1%				12.10
	TOTAL				1222.10 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				171.71
	TOTAL				1393.81 (Y)
	Add CPOH @ 15% on "Y"				209.07

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost of each				1602.88
	add 1% labour cess				16.03
	Say				1618.90
18.99	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Female Threaded Elbow 90o				
18.99.1	For 15.88 mm outer dia x 15 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8917	Female Threaded Elbow 90 0 for 15.88 mm outer dia X 15 mm nominal dia threaded	each	1	160.00	160.00
	TOTAL				160.00
	Add Water Charges @ 1%				1.60
	TOTAL				161.60 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				22.70
	TOTAL				184.30 (Y)
	Add CPOH @ 15% on "Y"				27.65
	Cost of each				211.95
	add 1% labour cess				2.12
	Say				214.10
18.99.2	For 22.22 mm outer dia x 15 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8918	Female Threaded Elbow 90 0 for 22.22 mm outer dia X 15 mm nominal dia threaded	each	1.00	215.00	215.00
	TOTAL				215.00
	Add Water Charges @ 1%				2.15
	TOTAL				217.15 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				30.51
	TOTAL				247.66 (Y)
	Add CPOH @ 15% on "Y"				37.15
	Cost of each				284.81
	add 1% labour cess				2.85
	Say				287.70
18.99.3	For 22.22 mm outer dia x 20 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8919	Female Threaded Elbow 90 0 for 22.22 mm outer dia X 20 mm nominal dia threaded	each	1.00	215.00	215.00
	TOTAL				215.00
	Add Water Charges @ 1%				2.15
	TOTAL				217.15 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				30.51
	TOTAL				247.66 (Y)
	Add CPOH @ 15% on "Y"				37.15
	Cost of each				284.81
	add 1% labour cess				2.85
	Say				287.70
18.99.4	For 25.58 mm outer dia x 25 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8920	Female Threaded Elbow 90 0 for 28.58 mm outer dia X 25 mm nominal dia threaded	each	1.00	215.00	215.00
	TOTAL				215.00
	Add Water Charges @ 1%				2.15








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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				217.15 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				30.51
	TOTAL				247.66 (Y)
	Add CPOH @ 15% on "Y"				37.15
	Cost of each				284.81
	add 1% labour cess				2.85
	Say				287.70
18.99.5	For 34.00 mm outer dia x 32 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8921	Female Threaded Elbow 90 0 for 34.00 mm outer dia X 32 mm nominal dia threaded	each	1.00	295.00	295.00
	TOTAL				295.00
	Add Water Charges @ 1%				2.95
	TOTAL				297.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				41.86
	TOTAL				339.81 (Y)
	Add CPOH @ 15% on "Y"				50.97
	Cost of each				390.78
	add 1% labour cess				3.91
	Say				394.70
18.99.6	For 42.70 mm outer dia x 32 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8922	Female Threaded Elbow 90 0 for 42.70 mm outer dia X 32 mm nominal dia threaded	each	1.00	480.00	480.00
	TOTAL				480.00
	Add Water Charges @ 1%				4.80
	TOTAL				484.80 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				68.11
	TOTAL				552.91 (Y)
	Add CPOH @ 15% on "Y"				82.94
	Cost of each				635.85
	add 1% labour cess				6.36
	Say				642.20
18.99.7	For 42.70 mm outer dia x 40 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8923	Female Threaded Elbow 90 0 for 42.70 mm outer dia X40 mm nominal dia threaded	each	1.00	480.00	480.00
	TOTAL				480.00
	Add Water Charges @ 1%				4.80
	TOTAL				484.80 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				68.11
	TOTAL				552.91 (Y)
	Add CPOH @ 15% on "Y"				82.94
	Cost of each				635.85
	add 1% labour cess				6.36
	Say				642.20
18.99.8	For 48.60 mm outer dia x 40 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8924	Female Threaded Elbow 90 0 for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1.00	710.00	710.00
	TOTAL				710.00
	Add Water Charges @ 1%				7.10
	TOTAL				717.10 (X)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST 12% on "X"(multiplying factor 0.1405)				100.75
	TOTAL				817.85 (Y)
	Add CPOH @ 15% on "Y"				122.68
	Cost of each				940.53
	add 1% labour cess				9.41
	Say				949.90
18.99.9	For 48.60 mm outer dia x 50 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8925	Female Threaded Elbow 90° for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1.00	710.00	710.00
	TOTAL				710.00
	Add Water Charges @ 1%				7.10
	TOTAL				717.10 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				100.75
	TOTAL				817.85 (Y)
	Add CPOH @ 15% on "Y"				122.68
	Cost of each				940.53
	add 1% labour cess				9.41
	Say				949.90
18.99A	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard with V-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Female Threaded Elbow 90°				
18.99A.1	For 15 mm outer dia X 1/2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3941	Stainless steel Female Threaded Elbow 90° for each 15 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312		1.00	640.00	640.00
	TOTAL				640.00 W
	Add 1 % Water charges on "W"				6.4
	TOTAL				646.40 X
	Add GST on "X" (multiplying factor 0.1405)				90.82
	TOTAL				737.22 Y
	Add 15% CPOH on "y"				110.583
	TOTAL				847.80 Z
	Add Cess @ 1% on "Z"				8.48
	Cost of 1 no				856.28
	Say				856.30
18.99A.2	For 22 mm outer dia X 3/4" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3942	Stainless steel Female Threaded Elbow 90° for each 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312		1	860.00	860.00
	TOTAL				860.00 W
	Add 1 % Water charges on "W"				8.60
	TOTAL				868.60 X
	Add GST on "X" (multiplying factor 0.1405)				122.04
	TOTAL				990.64 Y
	Add 15% CPOH on "y"				148.60
	TOTAL				1139.23 Z














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				11.39
	Cost of 1 no				1150.63
	Say				1150.60
18.99A.3	For 28mm outer dia X1" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3943	Stainless steel Female Threaded Elbow 90° for 28mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	1180.00	1180.00
	TOTAL				1180.00 W
	Add 1 % Water charges on "W"				11.80
	TOTAL				1191.80 X
	Add GST on "X" (multiplying factor 0.1405)				167.45
	TOTAL				1359.25 Y
	Add 15% CPOH on "y"				203.89
	TOTAL				1563.14 Z
	Add Cess @ 1% on "Z"				15.63
	Cost of 1 no				1578.77
	Say				1578.80
18.99A.4	For 35mm outer dia X1-1/4" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3944	Stainless steel Female Threaded Elbow 90° for 35mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	1917.00	1917.00
	TOTAL				1917.00 W
	Add 1 % Water charges on "W"				19.17
	TOTAL				1936.17 X
	Add GST on "X" (multiplying factor 0.1405)				272.03
	TOTAL				2208.20 Y
	Add 15% CPOH on "y"				331.23
	TOTAL				2539.43 Z
	Add Cess @ 1% on "Z"				25.39
	Cost of 1 no				2564.83
	Say				2564.80
18.99A.5	For 42mm outer dia X1-1/2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3945	Stainless steel Female Threaded Elbow 90° for 42mm outer dia X 1-1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	2088.00	2088.00
	TOTAL				2088.00 W
	Add 1 % Water charges on "W"				20.88
	TOTAL				2108.88 X
	Add GST on "X" (multiplying factor 0.1405)				296.30
	TOTAL				2405.18 Y
	Add 15% CPOH on "y"				360.78
	TOTAL				2765.95 Z
	Add Cess @ 1% on "Z"				27.66
	Cost of 1 no				2793.61
	Say				2793.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.99A.6	For 54mm outer dia X 2" nominal dia threaded Details of cost for 1no. MATERIAL				
3946	Stainless steel Female Threaded Elbow 90° for each 54mm outer dia X 2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312		1	3227.00	3227.00
	TOTAL				3227.00 W
	Add 1 % Water charges on "W"				32.27
	TOTAL				3259.27 X
	Add GST on "X" (multiplying factor 0.1405)				457.93
	TOTAL				3717.20 Y
	Add 15% CPOH on "Y"				557.58
	TOTAL				4274.78 Z
	Add Cess @ 1% on "Z"				42.75
	Cost of 1 no				4317.52
	Say				4317.50
18.100	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge. Male Threaded Elbow 90°				
18.100.1	For 15.88 mm outer dia x 15 mm nominal dia threaded. Details of Cost for one no. MATERIAL:				
8926	Male Threaded Elbow 90° for 15.88 mm outer dia X 15 mm nominal dia threaded	each	1.00	195.00	195.00
	TOTAL				195.00
	Add Water Charges @ 1%				1.95
	TOTAL				196.95 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				27.67
	TOTAL				224.62 (Y)
	Add CPOH @ 15% on "Y"				33.69
	Cost of each				258.31
	add 1% labour cess				2.58
	Say				260.90
18.100.2	For 22.22 mm outer dia x 15 mm nominal dia threaded. Details of Cost for one no. MATERIAL:				
8927	Male Threaded Elbow 90° for 22.22 mm outer dia X 15 mm nominal dia threaded	each	1.00	225.00	225.00
	TOTAL				225.00
	Add Water Charges @ 1%				2.25
	TOTAL				227.25 (X)
	Add GST 12% on "X" (multiplying factor 0.1405)				31.93
	TOTAL				259.18 (Y)
	Add CPOH @ 15% on "Y"				38.88
	Cost of each				298.06
	add 1% labour cess				2.98
	Say				301.00
18.100.3	For 22.22 mm outer dia x 20 mm nominal dia threaded. Details of Cost for one no. MATERIAL:				
8928	Male Threaded Elbow 90° for 22.22 mm outer dia X 20 mm nominal dia threaded	each	1.00	225.00	225.00
	TOTAL				225.00
	Add Water Charges @ 1%				2.25














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				227.25 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				31.93
	TOTAL				259.18 (Y)
	Add CPOH @ 15% on "Y"				38.88
	Cost of each				298.06
	add 1% labour cess				2.98
	Say				301.00
18.100.4	For 28.58 mm outer dia x 25 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8929	Male Threaded Elbow 90 0 for 28.58 mm outer dia X 25 mm nominal dia threaded	each	1.00	225.00	225.00
	TOTAL				225.00
	Add Water Charges @ 1%				2.25
	TOTAL				227.25 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				31.93
	TOTAL				259.18 (Y)
	Add CPOH @ 15% on "Y"				38.88
	Cost of each				298.06
	add 1% labour cess				2.98
	Say				301.00
18.100.5	For 34.00 mm outer dia x 25 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8930	Male Threaded Elbow 90 0 for 34.00 mm outer dia X 25 mm nominal dia threaded	each	1.00	290.00	290.00
	TOTAL				290.00
	Add Water Charges @ 1%				2.90
	TOTAL				292.90 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				41.15
	TOTAL				334.05 (Y)
	Add CPOH @ 15% on "Y"				50.11
	Cost of each				384.16
	add 1% labour cess				3.84
	Say				388.00
18.100.6	For 34.00 mm outer dia x 32 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8931	Male Threaded Elbow 90 0 for 34.00 mm outer dia X 32 mm nominal dia threaded	each	1.00	290.00	290.00
	TOTAL				290.00
	Add Water Charges @ 1%				2.90
	TOTAL				292.90 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				41.15
	TOTAL				334.05 (Y)
	Add CPOH @ 15% on "Y"				50.11
	Cost of each				384.16
	add 1% labour cess				3.84
	Say				388.00
18.100.7	For 42.70 mm outer dia x 32 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8932	Male Threaded Elbow 90 0 for 42.70 mm outer dia X 32 mm nominal dia threaded	each	1.00	480.00	480.00
	TOTAL				480.00
	Add Water Charges @ 1%				4.80
	TOTAL				484.80 (X)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST 12% on "X"(multiplying factor 0.1405)				68.11
	TOTAL				552.91 (Y)
	Add CPOH @ 15% on "Y"				82.94
	Cost of each				635.85
	add 1% labour cess				6.36
	Say				642.20
18.100.8	For 42.70 mm outer dia x 40 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8933	Male Threaded Elbow 90 0 for 42.70 mm outer dia X40 mm nominal dia threaded	each	1.00	480.00	480.00
	TOTAL				480.00
	Add Water Charges @ 1%				4.80
	TOTAL				484.80 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				68.11
	TOTAL				552.91 (Y)
	Add CPOH @ 15% on "Y"				82.94
	Cost of each				635.85
	add 1% labour cess				6.36
	Say				642.20
18.100.9	For 48.60 mm outer dia x 40 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8934	Male Threaded Elbow 90 0 for 48.60 mm outer dia X 40 mm nominal dia threaded	each	1.00	695.00	695.00
	TOTAL				695.00
	Add Water Charges @ 1%				6.95
	TOTAL				701.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				98.62
	TOTAL				800.57 (Y)
	Add CPOH @ 15% on "Y"				120.09
	Cost of each				920.66
	add 1% labour cess				9.21
	Say				929.90
18.100.10	For 48.60 mm outer dia x 50 mm nominal dia threaded.				
	Details of Cost for one no.				
	MATERIAL:				
8935	Male Threaded Elbow 90 0 for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1.00	695.00	695.00
	TOTAL				695.00
	Add Water Charges @ 1%				6.95
	TOTAL				701.95 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				98.62
	TOTAL				800.57 (Y)
	Add CPOH @ 15% on "Y"				120.09
	Cost of each				920.66
	add 1% labour cess				9.21
	Say				929.90
18.100.A	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS6911:2017 and conforming to EN-10312 standard with V-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Male Threaded Elbow 90°				

18.100A.1 For 15mm outer dia X 1/2" nominal dia threaded

Details of cost for 1no.

MATERIAL














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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3947	Stainless steel Male Threaded Elbow 90° for 15mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1.00	525.00	525.00
	TOTAL				525.00 W
	Add 1 % Water charges on "W"				5.25
	TOTAL				530.25 X
	Add GST on "X" (multiplying factor 0.1405)				74.50
	TOTAL				604.75 Y
	Add 15% CPOH on "y"				90.71
	TOTAL				695.46 Z
	Add Cess @ 1% on "Z"				6.95
	Cost of 1 no				702.42
	Say				702.40
18.100A.2	For 22mm outer dia X 3/4" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3948	Stainless steel Male Threaded Elbow 90° for 22mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1.00	790.00	790.00
	TOTAL				790.00 W
	Add 1 % Water charges on "W"				7.90
	TOTAL				797.90 X
	Add GST on "X" (multiplying factor 0.1405)				112.10
	TOTAL				910.00 Y
	Add 15% CPOH on "y"				136.50
	TOTAL				1046.51 Z
	Add Cess @ 1% on "Z"				10.47
	Cost of 1 no				1056.97
	Say				1057.00
18.100A.3	For 28mm outer dia X 1" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3949	Stainless steel Male Threaded Elbow 90° for 28mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1.00	1045.00	1045.00
	TOTAL				1045.00 w
	Add 1 % Water charges on "W"				10.45
	TOTAL				1055.45 X
	Add GST on "X" (multiplying factor 0.1405)				148.29
	TOTAL				1203.74 y
	Add 15% CPOH on "y"				180.56
	TOTAL				1384.30 Z
	Add Cess @ 1% on "Z"				13.84
	Cost of 1 no				1398.14
	Say				1398.10
18.100A.4	For 35mm outer dia X 1-1/4" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3950	Stainless steel Male Threaded Elbow 90° for 35mm outer dia X 1-1/4" nominal dia 4 threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1.00	1440.00	1440.00
	TOTAL				1440.00 W
	Add 1 % Water charges on "W"				14.40
	TOTAL				1454.40 X
	Add GST on "X" (multiplying factor 0.1405)				204.34
	TOTAL				1658.74 Y
	Add 15% CPOH on "y"				248.81
	TOTAL				1907.55 Z
	Add Cess @ 1% on "Z"				19.08
	Cost of 1 no				1926.63
	Say				1926.60
18.100A.5	For 42mm outer dia X 1-1/2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3951	Stainless steel Male Threaded Elbow 90° for 42mm outer dia X 1-1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1.00	2635.00	2635.00
	TOTAL				2635.00 W
	Add 1 % Water charges on "W"				26.35
	TOTAL				2661.35 X
	Add GST on "X" (multiplying factor 0.1405)				373.92
	TOTAL				3035.27 Y
	Add 15% CPOH on "y"				455.29
	TOTAL				3490.56 Z
	Add Cess @ 1% on "Z"				34.91
	Cost of 1 no				3525.47
	Say				3525.50
18.100A.6	For 54mm outer dia X 2" mm nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3952	Stainless steel Male Threaded Elbow 90° for 54mm outer dia X 2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1.00	2998.00	2998.00
	TOTAL				2998.00 W
	Add 1 % Water charges on "W"				29.98
	TOTAL				3027.98 X
	Add GST on "X" (multiplying factor 0.1405)				425.43
	TOTAL				3453.41 Y
	Add 15% CPOH on "y"				518.01
	TOTAL				3971.42 Z
	Add Cess @ 1% on "Z"				39.71
	Cost of 1 no				4011.14
	Say				4011.10
18.101	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Cap.				

18.101.1 For 15.88 mm outer dia pipe.

Details of Cost for one no.














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Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8936	MATERIAL: Cap for 15.88 mm outer dia pipe	each	1.00	48.00	48.00
	TOTAL				48.00
	Add Water Charges @ 1%				0.48
	TOTAL				48.48 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				6.81
	TOTAL				55.29 (Y)
	Add CPOH @ 15% on "Y"				8.29
	Cost of each				63.59
	add 1% labour cess				0.64
	Say				64.20
18.101.2	For 22.22 mm outer dia pipe.				
	Details of Cost for one no.				
	MATERIAL:				
8937	Cap for 22.22 mm outer dia pipe	each	1.00	70.00	70.00
	TOTAL				70.00
	Add Water Charges @ 1%				0.70
	TOTAL				70.70 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				9.93
	TOTAL				80.63 (Y)
	Add CPOH @ 15% on "Y"				12.10
	Cost of each				92.73
	add 1% labour cess				0.93
	Say				93.70
18.101.3	For 28.58 mm outer dia pipe.				
	Details of Cost for one no.				
	MATERIAL:				
8938	Cap for 28.58 mm outer dia pipe	each	1.00	90.00	90.00
	TOTAL				90.00
	Add Water Charges @ 1%				0.90
	TOTAL				90.90 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				12.77
	TOTAL				103.67 (Y)
	Add CPOH @ 15% on "Y"				15.55
	Cost of each				119.22
	add 1% labour cess				1.19
	Say				120.40
18.101.4	For 34.00 mm outer dia pipe.				
	Details of Cost for one no.				
	MATERIAL:				
8939	Cap for 34.00 mm outer dia pipe	each	1.00	175.00	175.00
	TOTAL				175.00
	Add Water Charges @ 1%				1.75
	TOTAL				176.75 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				24.83
	TOTAL				201.58 (Y)
	Add CPOH @ 15% on "Y"				30.24
	Cost of each				231.82
	add 1% labour cess				2.32
	Say				234.10
18.101.5	For 42.70 mm outer dia pipe.				
	Details of Cost for one no.				
	MATERIAL:				
8940	Cap for 42.70 mm outer dia pipe	each	1.00	250.00	250.00
	TOTAL				250.00
	Add Water Charges @ 1%				2.50
	TOTAL				252.50 (X)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST 12% on "X"(multiplying factor 0.1405)				35.48
	TOTAL				287.98 (Y)
	Add CPOH @ 15% on "Y"				43.20
	Cost of each				331.17
	add 1% labour cess				3.31
	Say				334.50
18.101.6	For 48.60 mm outer dia pipe.				
	Details of Cost for one no.				
	MATERIAL:				
8941	Cap for 48.60 mm outer dia pipe	each	1.00	325.00	325.00
	TOTAL				325.00
	Add Water Charges @ 1%				3.25
	TOTAL				328.25 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				46.12
	TOTAL				374.37 (Y)
	Add CPOH @ 15% on "Y"				56.16
	Cost of each				430.52
	add 1% labour cess				4.31
	Say				434.80
18.101A	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard with V-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Cap				
18.101A.1	For 15 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3953	Stainless steel Cap for 15 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	320.00	320.00
	TOTAL				320.00 W
	Add 1 % Water charges on "W"				3.20
	TOTAL				323.20 X
	Add GST on "X" (multiplying factor 0.1405)				45.41
	TOTAL				368.61 Y
	Add 15% CPOH on "y"				55.29
	TOTAL				423.90 Z
	Add Cess @ 1% on "Z"				4.24
	Cost of 1 no				428.14
	Say				428.10
18.101A.2	For 22 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3954	Stainless steel Cap for 22 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	415.00	415.00
	TOTAL				415.00 W
	Add 1 % Water charges on "W"				4.15
	TOTAL				419.15 X
	Add GST on "X" (multiplying factor 0.1405)				58.89
	TOTAL				478.04 Y
	Add 15% CPOH on "y"				71.71
	TOTAL				549.75 Z
	Add Cess @ 1% on "Z"				5.50
	Cost of 1 no				555.24
	Say				555.20














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.101A.3	For 28 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3955	Stainless steel Cap for 28 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	515.00	515.00
	TOTAL				515.00 W
	Add 1 % Water charges on "W"				5.15
	TOTAL				520.15 X
	Add GST on "X" (multiplying factor 0.1405)				73.08
	TOTAL				593.23 Y
	Add 15% CPOH on "y"				88.98
	TOTAL				682.22 Z
	Add Cess @ 1% on "Z"				6.82
	Cost of 1 no				689.04
	Say				689.00
18.101A.4	For 35 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3956	Stainless steel Cap for 35 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	720.00	720.00
	TOTAL				720.00 W
	Add 1 % Water charges on "W"				7.20
	TOTAL				727.20 X
	Add GST on "X" (multiplying factor 0.1405)				102.17
	TOTAL				829.37 Y
	Add 15% CPOH on "y"				124.41
	TOTAL				953.78 Z
	Add Cess @ 1% on "Z"				9.54
	Cost of 1 no				963.32
	Say				963.30
18.101A.5	For 42 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3957	Stainless steel Cap for 42 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	1565.00	1565.00
	TOTAL				1565.00 W
	Add 1 % Water charges on "W"				15.65
	TOTAL				1580.65 X
	Add GST on "X" (multiplying factor 0.1405)				222.08
	TOTAL				1802.73 Y
	Add 15% CPOH on "y"				270.41
	TOTAL				2073.14 Z
	Add Cess @ 1% on "Z"				20.73
	Cost of 1 no				2093.87
	Say				2093.90
18.101A.6	For 54 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3958	Stainless steel Cap for 54 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	1720.00	1720.00
	TOTAL				1720.00 W

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 1 % Water charges on "W"				17.20
	TOTAL				1737.20 X
	Add GST on "X" (multiplying factor 0.1405)				244.08
	TOTAL				1981.28 Y
	Add 15% CPOH on "y"				297.19
	TOTAL				2278.47 Z
	Add Cess @ 1% on "Z"				22.78
	Cost of 1 no				2301.25
	Say				2301.30
18.102	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with Vprofile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Pipe Bridge.				
18.102.1	For 15.88 mm outer dia pipe.				
	Details of Cost for one no.				
	MATERIAL:				
8942	Pipe Bridge for 15.88 mm outer dia pipe	each	1.00	220.00	220.00
	TOTAL				220.00
	Add Water Charges @ 1%				2.20
	TOTAL				222.20 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				31.22
	TOTAL				253.42 (Y)
	Add CPOH @ 15% on "Y"				38.01
	Cost of each				291.43
	add 1% labour cess				2.91
	Say				294.30
18.102.2	For 22.22 mm outer dia pipe.				
	Details of Cost for one no.				
	MATERIAL:				
8943	Pipe Bridge for 15.88 mm outer dia pipe	each	1.00	290.00	290.00
	TOTAL				290.00
	Add Water Charges @ 1%				2.90
	TOTAL				292.90 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				41.15
	TOTAL				334.05 (Y)
	Add CPOH @ 15% on "Y"				50.11
	Cost of each				384.16
	add 1% labour cess				3.84
	Say				388.00
18.102.3	For 28.58 mm outer dia pipe.				
	Details of Cost for one no.				
	MATERIAL:				
8944	Pipe Bridge for 28.58 mm outer dia pipe	each	1.00	415.00	415.00
	TOTAL				415.00
	Add Water Charges @ 1%				4.15
	TOTAL				419.15 (X)
	Add GST 12% on "X"(multiplying factor 0.1405)				58.89
	TOTAL				478.04 (Y)
	Add CPOH @ 15% on "Y"				71.71
	Cost of each				549.75
	add 1% labour cess				5.50
	Say				555.20
18.102A	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard with V-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
Pipe Bridge					
18.102A.1	For 15 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3959	Stainless steel Pipe Bridge for 15 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	415.00	415.00
	TOTAL				415.00 W
	Add 1 % Water charges on "W"				4.15
	TOTAL				419.15 X
	Add GST on "X" (multiplying factor 0.1405)				58.89
	TOTAL				478.04 Y
	Add 15% CPOH on "y"				71.71
	TOTAL				549.75 Z
	Add Cess @ 1% on "Z"				5.50
	Cost of 1 no				555.24
	Say				555.20
18.102A.2	For 22 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3960	Stainless steel Pipe Bridge for 22 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	1110.00	1110.00
	TOTAL				1110.00 W
	Add 1 % Water charges on "W"				11.10
	TOTAL				1121.10 X
	Add GST on "X" (multiplying factor 0.1405)				157.51
	TOTAL				1278.61 Y
	Add 15% CPOH on "y"				191.79
	TOTAL				1470.41 Z
	Add Cess @ 1% on "Z"				14.70
	Cost of 1 no				1485.11
	Say				1485.10
18.102A.3	For 28 mm outer dia pipe				
	Details of cost for 1no.				
	MATERIAL				
3961	Stainless steel Pipe Bridge for 28 mm outer dia pipe of grade 316L as per IS 6911:2017 conforming to EN-10312 and	each	1	1526.00	1526.00
	TOTAL				1526.00 W
	Add 1 % Water charges on "W"				15.26
	TOTAL				1541.26 X
	Add GST on "X" (multiplying factor 0.1405)				216.55
	TOTAL				1757.81 Y
	Add 15% CPOH on "y"				263.67
	TOTAL				2021.48 Z
	Add Cess @ 1% on "Z"				20.21
	Cost of 1 no				2041.69
	Say				2041.70
18.103	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard with V-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Male Union				
18.103.1	For 15mm outer dia X 1/2" nominal dia threaded				
	Details of cost for 1no.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3962	MATERIAL Stainless steel Male Union for 15mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	885.00	885.00
	TOTAL				885.00 W
	Add 1 % Water charges on "W"				8.85
	TOTAL				893.85 X
	Add GST on "X" (multiplying factor 0.1405)				125.59
	TOTAL				1019.44 Y
	Add 15% CPOH on "y"				152.92
	TOTAL				1172.35 Z
	Add Cess @ 1% on "Z"				11.72
	Cost of 1 no				1184.07
	Say				1184.10
18.103.2	For 22mm outer dia X 1/2" nominal dia threaded Details of cost for 1no.				
3963	MATERIAL Stainless steel Male Union for 22mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	895.00	895.00
	TOTAL				895.00 W
	Add 1 % Water charges on "W"				8.95
	TOTAL				903.95 X
	Add GST on "X" (multiplying factor 0.1405)				127.00
	TOTAL				1030.95 Y
	Add 15% CPOH on "y"				154.64
	TOTAL				1185.60 Z
	Add Cess @ 1% on "Z"				11.86
	Cost of 1 no				1197.45
	Say				1197.50
18.103.3	For 22mm outer dia X 3/4" nominal dia threaded Details of cost for 1no.				
3964	MATERIAL Stainless steel Male Union for 22mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	1025.00	1025.00
	TOTAL				1025.00 W
	Add 1 % Water charges on "W"				10.25
	TOTAL				1035.25 X
	Add GST on "X" (multiplying factor 0.1405)				145.45
	TOTAL				1180.70 Y
	Add 15% CPOH on "y"				177.11
	TOTAL				1357.81 Z
	Add Cess @ 1% on "Z"				13.58
	Cost of 1 no				1371.39
	Say				1371.40
18.103.4	For 28mm outer dia X 1" nominal dia threaded Details of cost for 1no.				
3965	MATERIAL Stainless steel Male Union for 28mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	1805.00	1805.00
	TOTAL				1805.00 W
	Add 1 % Water charges on "W"				18.05
	TOTAL				1823.05 X














Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add GST on "X" (multiplying factor 0.1405)				256.14
	TOTAL				2079.19 Y
	Add 15% CPOH on "y"				311.88
	TOTAL				2391.07 Z
	Add Cess @ 1% on "Z"				23.91
	Cost of 1 no				2414.98
	Say				2415.00
18.103.5	For 35mm outer dia X 1-1/4" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3966	Stainless steel Male Union for 35mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	1885.00	1885.00
	TOTAL				1885.00 W
	Add 1 % Water charges on "W"				18.85
	TOTAL				1903.85 X
	Add GST on "X" (multiplying factor 0.1405)				267.49
	TOTAL				2171.34 Y
	Add 15% CPOH on "y"				325.70
	TOTAL				2497.04 Z
	Add Cess @ 1% on "Z"				24.97
	Cost of 1 no				2522.01
	Say				2522.00
18.103.6	For 42mm outer dia X 1-1/2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3967	Stainless steel Male Union for 42mm outer dia X 1-1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	2130.00	2130.00
	TOTAL				2130.00 W
	Add 1 % Water charges on "W"				21.30
	TOTAL				2151.30 X
	Add GST on "X" (multiplying factor 0.1405)				302.26
	TOTAL				2453.56 Y
	Add 15% CPOH on "y"				368.03
	TOTAL				2821.59 Z
	Add Cess @ 1% on "Z"				28.22
	Cost of 1 no				2849.81
	Say				2849.80
18.103.7	For 54mm outer dia X 2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3968	Stainless steel Male Union for 54mm outer dia X 2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	3680.00	3680.00
	TOTAL				3680.00 W
	Add 1 % Water charges on "W"				36.80
	TOTAL				3716.80 X
	Add GST on "X" (multiplying factor 0.1405)				522.21
	TOTAL				4239.01 Y
	Add 15% CPOH on "y"				635.85
	TOTAL				4874.86 Z
	Add Cess @ 1% on "Z"				48.75
	Cost of 1 no				4923.61
	Say				4923.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
18.104	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard with V-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Female Union				
18.104.1	For 22 mm outer dia X 3/4" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3969	Stainless steel Female Union for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	950.00	950.00
	TOTAL				950.00 W
	Add 1 % Water charges on "W"				9.50
	TOTAL				959.50 X
	Add GST on "X" (multiplying factor 0.1405)				134.81
	TOTAL				1094.31 Y
	Add 15% CPOH on "y"				164.15
	TOTAL				1258.46 Z
	Add Cess @ 1% on "Z"				12.58
	Cost of 1 no				1271.04
	Say				1271.00
18.104.2	For 28mm outer dia X1" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3970	Stainless steel Female Union for 28mm outer dia X1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	1280.00	1280.00
	TOTAL				1280.00 W
	Add 1 % Water charges on "W"				12.80
	TOTAL				1292.80 X
	Add GST on "X" (multiplying factor 0.1405)				181.64
	TOTAL				1474.44 Y
	Add 15% CPOH on "y"				221.17
	TOTAL				1695.60 Z
	Add Cess @ 1% on "Z"				16.96
	Cost of 1 no				1712.56
	Say				1712.60
18.105	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard with V-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
	Female Transition Elbow/ FTE				
18.105.1	For 15mm outer dia X 1/2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3971	Stainless steel Female Transition Elbow / FTE for 15mm outer dia X 1/2" nominal dia treaded of grade 316L as per IS 6911:2017 and conforming to EN-10312	each	1	649.00	649.00
	TOTAL				649.00 W
	Add 1 % Water charges on "W"				6.49
	TOTAL				655.49 X
	Add GST on "X" (multiplying factor 0.1405)				92.10
	TOTAL				747.59 Y
	Add 15% CPOH on "y"				112.14
	TOTAL				859.72 Z












Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Cess @ 1% on "Z"				8.60
	Cost of 1 no				868.32
	Say				868.30
18.105.2	For 22mm outer dia X 1/2" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3972	Stainless steel Female Transition Elbow / F;TE each	each	1	900.00	900.00
	for 22mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312				
	TOTAL				900.00 W
	Add 1 % Water charges on "W"				9.00
	TOTAL				909.00 X
	Add GST on "X" (multiplying factor 0.1405)				127.71
	TOTAL				1036.71 Y
	Add 15% CPOH on "y"				155.51
	TOTAL				1192.22 Z
	Add Cess @ 1% on "Z"				11.92
	Cost of 1 no				1204.14
	Say				1204.10
18.105.3	For 22mm outer dia X 3/4" nominal dia threaded				
	Details of cost for 1no.				
	MATERIAL				
3973	Stainless steel Female Transition Elbow / FTE each	each	1	870.00	870.00
	for 22mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312				
	TOTAL				870.00
	Add 1 % Water charges on "W"				8.70
	TOTAL				878.70
	Add GST on "X" (multiplying factor 0.1405)				123.46
	TOTAL				1002.16
	Add 15% CPOH on "y"				150.32
	TOTAL				1152.48
	Add Cess @ 1% on "Z"				11.52
	Cost of 1 no				1164.01
	Say				1164.00







