

Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
27-1	Boring for tubewell in all types of soil except shingle, gravel and rock from ground bed to 100ft (30m) depth including sinking and withdrawing casing pipe & disposal of excavated material within 100ft (30m)				27.1.2
a)	3" (75 mm) inner dia.	R.M.	53.85	219.25	
		R.ft.	16.40	66.85	
b)	4" (100 mm) inner dia.	R.M.	72.70	469.79	
		R.ft.	22.15	143.20	
c)	5" (125 mm) inner dia.	R.M.	130.85	722.77	
		R.ft.	39.90	220.30	
d)	6" (150 mm) inner dia.	R.M.	196.30	972.33	
		R.ft.	59.85	296.35	
e)	8" (200 mm) inner dia.	R.M.	261.10	1,225.63	
		R.ft.	79.60	373.60	
f)	10" (250 mm) inner dia.	R.M.	326.40	1,473.13	
		R.ft.	99.50	449.00	
g)	12" (300 mm) inner dia.	R.M.	340.00	1,729.01	
		R.ft.	103.65	527.00	
h)	15" (375 mm) inner dia.	R.M.	505.95	1,973.74	
		R.ft.	154.20	601.60	
i)	18" (450 mm) inner dia.	R.M.	538.26	2,168.01	
		R.ft.	164.05	660.80	
27-2	Boring for tubewell in all types of soil except shingle, gravel and rock from depth 100 ft. to 200 ft. (30m to 60m.) below ground level including sinking and withdrawing of casing pipe				27.1.2
a)	5" (125 mm) inner dia.	R.M.	222.45	982.96	
		R.ft.	67.80	299.60	
b)	6" (150 mm) inner dia.	R.M.	314.08	1,215.43	
		R.ft.	95.75	370.45	
c)	8" (200 mm) inner dia.	R.M.	339.45	1,448.45	
		R.ft.	103.45	441.50	
d)	10" (250 mm) inner dia.	R.M.	385.91	1,683.57	
		R.ft.	117.65	513.15	
e)	12" (300 mm) inner dia.	R.M.	420.43	1,921.11	
		R.ft.	128.15	585.55	
f)	15" (375 mm) inner dia.	R.M.	596.77	2,151.47	
		R.ft.	181.90	655.80	
g)	18" (450 mm) inner dia.	R.M.	625.25	2,374.48	
		R.ft.	190.60	723.75	



Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
27-3	Boring for tubewell in all types of soil except shingle, gravel and rock from depth 200 ft. to 300 ft. (60m to 90m.) below ground level including sinking and withdrawing of casing pipe				27.1.2
a)	5" (125 mm) inner dia.	R.M. R.ft.	311.19 94.85	1,375.13 419.15	
b)	6" (150 mm) inner dia.	R.M. R.ft.	402.67 122.75	1,547.97 471.85	
c)	8" (200 mm) inner dia.	R.M. R.ft.	424.30 129.35	1,828.84 557.45	
d)	10" (250 mm) inner dia.	R.M. R.ft.	477.42 145.50	2,093.58 638.15	
e)	12" (300 mm) inner dia.	R.M. R.ft.	504.50 153.75	2,305.35 702.70	
f)	15" (375 mm) inner dia.	R.M. R.ft.	656.45 200.10	2,366.60 721.35	
g)	18" (450 mm) inner dia.	R.M. R.ft.	687.80 209.65	2,611.90 796.10	
27-4	Boring for tubewell in all types of soil except shingle, gravel and rock from depth 300 ft. to 400 ft. (90m to 120m) below ground level including sinking and withdrawing of casing pipe				27.1.2
a)	8" (200 mm) inner dia.	R.M. R.ft.	509.15 155.20	2,205.63 672.30	
b)	10" (250 mm) inner dia.	R.M. R.ft.	572.90 174.60	2,499.80 761.95	
c)	12" (300 mm) inner dia.	R.M. R.ft.	600.35 183.00	2,739.01 834.85	
d)	15" (375 mm) inner dia.	R.M. R.ft.	799.75 243.75	2,883.15 878.80	
e)	18" (450 mm) inner dia.	R.M. R.ft.	805.22 245.45	3,043.01 927.50	
27-5	Direct rotary and/or reverse rotary drilling of bore in all types of soil except shingle, gravel and rock.				27.1.2
a)	From ground level upto 250 ft. (75 m) below ground level				
i.	(370 mm to 450 mm) i/d	R.M. R.ft.	4,552.13	6,906.65	
ii.	(500 mm to 700 mm) i/d	R.M. R.ft.	5,007.34	7,597.30	
b)	Exceeding 250 ft (75 m.) depth below ground level				
i.	(375 mm to 450 mm) i/d	R.M. R.ft.	5,234.94	7,942.65	
ii.	(500 mm to 750 mm) i/d	R.M. R.ft.	5,758.44	8,736.90	
27-6	Direct rotary and/or reverse rotary drilling for Pilling in shingle, gravel or rock.	R.M. R.ft.	-	13,813.30 4,210.35	27.1.2



Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
27-7	Direct rotary and/or reverse rotary drilling of bore in all types of soil except shingle, gravel and rock.				27.1.2
a)	From ground level upto 250 ft. (75 m) below ground level				
i)	15" to 18" (375 mm to 450 mm) inner dia.	R.M. R.ft.	- -	12,256.53 3,735.85	
ii)	20" to 30" (500 mm to 750 mm) inner dia.	R.M. R.ft.	- -	13,482.20 4,109.40	
b)	Exceeding 250 ft (75 m.) depth below ground level				
i)	15" to 18" (375 mm to 450 mm) inner dia.	R.M. R.ft.	- -	14,095.00 4,296.20	
ii)	20" to 30" (500 mm to 750 mm) inner dia.	R.M. R.ft.	- -	15,504.55 4,725.85	
27-8	Direct rotary and/or reverse rotary drilling of bore for tubewells including extraction of casing pipes in shingle, gravel and rock.				27.1.2
a)	From ground level upto 250 ft. (75 m) below ground level				
i)	15" to 18" (375 mm to 450 mm) inner dia.	R.M. R.ft.	- -	7,209.74 2,197.55	
ii)	20" to 30" (500 mm to 750 mm) inner dia.	R.M. R.ft.	- -	8,171.03 2,490.55	
b)	Exceeding 250 ft (75 m.) depth below ground level				
i)	15" to 18" (375 mm to 450 mm) inner dia.	R.M. R.ft.	- -	6,334.83 1,930.90	
ii)	20" to 30" (500 mm to 750 mm) inner dia.	R.M. R.ft.	- -	9,396.70 2,864.15	
27-9	Providing box 48"x 30"x 9" (1.2m x 0.75m x 0.23m) of deodar wood planks with compartment 4" x 4" (100mm x 100mm) including locking arrangement for preserving strata samples from borehole and painted with two coats of paint. The top and bottom of the box to be of 1/2" (12mm) planks, sides and compartments to be of 1/4" (6mm) planks.	Each	1,174.55	5,763.05	27.1.2.5
27-10	Furnishing sample of water from bore hole.	Per set of two bottles	594.75	724.40	27.1.2.5
27-11	Providing and installing brass strainer in tubewell bore hole including specials, sockets and studs of the nominal inner diameter.				27.1.3
a)	2" (50 mm) dia. and 5/32" (4 mm) wall thickness	R.M. R.ft.	110.10 33.55	4,947.75 1,508.10	
b)	3" (75 mm) dia. and 5/32" (4 mm) wall thickness	R.M. R.ft.	110.10 33.55	6,859.75 2,090.90	
c)	4" (100 mm) dia. and 3/16" (5 mm) wall thickness	R.M. R.ft.	110.10 33.55	7,002.05 2,134.25	
d)	5" (125 mm) dia. and 3/16" (5 mm) wall thickness	R.M. R.ft.	110.10 33.55	8,213.50 2,503.50	
e)	6" (150 mm) dia. and 3/16" (5 mm) wall thickness	R.M. R.ft.	110.10 33.55	8,806.85 2,684.35	
f)	7" (175 mm) dia. and 3/16" (5 mm) wall thickness	R.M. R.ft.	110.10 33.55	10,499.15 3,200.20	

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			Labour	Composite		
g)	8" (200 mm) dia. and 3/16" (5 mm) wall thickness	R.M.	110.10	10,591.60	27.1.3	
		R.ft.	33.55	3,228.35		
h)	9" (225 mm) dia. and 3/16" (5 mm) wall thickness	R.M.	110.10	10,869.75		
		R.ft.	33.55	3,313.15		
i)	10" (250 mm) dia. with 3/16" (5 mm) wall thickness	R.M.	110.10	11,080.36		
		R.ft.	33.55	3,377.35		
j)	10" (250 mm) dia. and 1/4" (6 mm) wall thickness	R.M.	110.10	14,176.65		
		R.ft.	33.55	4,321.10		
k)	12" (300 mm) dia. and 1/4" (6 mm) wall thickness	R.M.	110.10	16,092.55		
		R.ft.	33.55	4,905.05		
l)	15" (375 mm) dia. and 1/4" (6 mm) wall thickness	R.M.	110.10	20,060.80		
		R.ft.	33.55	6,114.60		
m)	18" (450 mm) dia. and 1/4" (6 mm) wall thickness	R.M.	110.10	22,595.00		
		R.ft.	33.55	6,887.05		
n)	20" (500 mm) dia. and 1/4" (6 mm) wall thickness	R.M.	110.10	24,940.45		
		R.ft.	33.55	7,601.95		
o)	22" (550 mm) dia. and 1/4" (6 mm) wall thickness	R.M.	110.10	28,625.45		
		R.ft.	33.55	8,725.15		
27-12	Providing and installing M.S. bail plug in tubewell bore hole 1.5 ft. (50cm) long and of the nominal inner diameter.					27.1.3
a)	2" (50 mm) inner dia.	Each	201.15	746.25		
b)	3" (75 mm) inner dia.	Each	201.15	1,097.90		
c)	4" (100 mm) inner dia.	Each	201.15	1,748.90		
d)	5" (125 mm) inner dia.	Each	201.15	2,302.20		
e)	6" (150 mm) inner dia.	Each	201.15	2,692.10		
f)	7" (175 mm) dia	Each	201.15	3,248.35		
g)	8" (200 mm) inner dia.	Each	201.15	3,513.30		
h)	9" 225 mm inner dia.	Each	201.15	3,883.45		
i)	10" (250 mm) inner dia.	Each	201.15	5,269.70		
j)	12" (300 mm) inner dia.	Each	201.15	6,368.70		
27-13	Providing and installing fibre glass strainer in tubewell bore hole including sockets and solvents.				27.1.3	
a)	8" (200 mm) dia. and 3/16" (5 mm) wall thickness	R.M.	122.00	4,633.05		
		R.ft.	37.20	1,412.15		
b)	10" (250 mm) dia. and 0.2" to 0.22" (5 mm to 5.5 mm) wall thickness	R.M.	122.00	5,133.50		
		R.ft.	37.20	1,564.70		
27-14	Providing and installing fibre glass bail/end plug in tubewell bore.				27.1.3	
a)	8" (200 mm) inner dia.	Each	122.00	6,653.15		
b)	10" (250 mm) inner dia.	Each	122.00	6,919.70		

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			Labour	Composite	
27-15	Providing and installing fibre glass blank pipe Zamrock or similar make in tubewell bore hole including coupling and jointing with strainer.				27.1.3
a)	8" (200 mm) dia. and 3/16" (5 mm) wall thickness	R.M. R.ft.	122.00 37.20	1,410.65 429.95	
b)	10" (250 mm) dia. with 3/16" (5 mm) wall thickness	R.M. R.ft.	110.10 33.55	1,517.05 462.40	
c)	14" (350 mm) dia. and 3/16" to 1/4" (5 mm to 6 mm) wall thickness	R.M. R.ft.	110.10 33.55	2,198.20 670.00	
27-16	Providing and installing P.V.C. strainer in tubewell bore hole including sockets and solvent Shavyl Karachi or equivalent make of the nominal inner diameter.				27.1.3
a)	Class B				
i)	3" (75 mm) inner dia.	R.M. R.ft.	10.45 3.20	83.90 25.55	
ii)	4" (100 mm) inner dia.	R.M. R.ft.	10.45 3.20	109.00 33.20	
iii)	5" (125 mm) inner dia.	R.M. R.ft.	22.99 7.00	172.30 52.50	
iv)	6" (150 mm) inner dia.	R.M. R.ft.	22.99 7.00	241.00 73.45	
v)	8" (200 mm) inner dia.	R.M. R.ft.	67.50 20.55	482.30 147.00	
vi)	10" (250 mm) inner dia.	R.M. R.ft.	67.50 20.55	658.35 200.65	
vii)	12" (300 mm) inner dia.	R.M. R.ft.	125.75 38.35	896.70 273.30	
viii)	14" (350 mm) inner dia.	R.M. R.ft.	125.75 38.35	930.50 283.60	
b)	Class D				
i)	1.25" (30 mm) inner dia.	R.M. R.ft.	6.20 1.90	45.45 13.85	
ii)	1.5" (40 mm) inner dia.	R.M. R.ft.	6.20 1.90	65.30 19.90	
iii)	2" (50 mm) inner dia.	R.M. R.ft.	11.50 3.50	90.90 27.70	
iv)	3" (75 mm) inner dia.	R.M. R.ft.	15.70 4.80	120.75 36.80	
v)	4" (100 mm) inner dia.	R.M. R.ft.	15.70 4.80	156.30 47.65	
vi)	5" (125 mm) inner dia.	R.M. R.ft.	29.75 9.05	220.70 67.25	
vii)	6" (150 mm) inner dia.	R.M. R.ft.	29.75 9.05	286.25 87.25	

Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.	
			Labour	Composite		
27-17	Providing and installing P.V.C. elbow Shavyl or equivalent make.				27.1.3	
a)	Class B					
i)	3" (75 mm) inner dia.	Each	41.20	228.80		
ii)	4" (100 mm) inner dia.	Each	41.20	280.65		
iii)	5" (125 mm) inner dia.	Each	41.20	591.60		
iv)	6" (150 mm) inner dia.	Each	54.90	797.80		
v)	8" (200 mm) inner dia.	Each	54.90	1,015.95		
vi)	10" (250 mm) inner dia.	Each	54.90	1,343.60		
vii)	12" (300 mm) inner dia.	Each	82.35	1,789.90		
viii)	14" (350 mm) inner dia.	Each	82.35	2,178.65		
b)	Class D					
i)	1.25" (30 mm) inner dia.	Each	27.45	118.85		
ii)	1.5" (40 mm) inner dia.	Each	27.45	148.45		
iii)	2" (50 mm) inner dia.	Each	27.45	178.10		
iv)	3" (75 mm) inner dia.	Each	41.20	406.50		
v)	4" (100 mm) inner dia.	Each	41.20	487.95		
vi)	5" (125 mm) inner dia.	Each	41.20	594.45		
vii)	6" (150 mm) inner dia.	Each	41.20	721.90		
27-18	Providing and installing M.S. blind pipe socketed seamless welded joint or hand welded joint, M.S. reducer where necessary in tubewell bore hole including jointing and welding with strainer of the nominal inner diameter.					27.1.3
a)	2" (50 mm) dia. and 1/8" (3 mm) wall thickness	R.M. R.ft.	221.60 67.55	1,347.10 410.60		
b)	3" (75 mm) dia. and 1/8" (3 mm) wall thickness	R.M. R.ft.	221.60 67.55	1,396.25 425.60		
c)	4" (100 mm) dia. and 1/8" (3 mm) wall thickness	R.M. R.ft.	276.65 84.30	1,012.50 308.60		
d)	5" (125 mm) dia. and 3/16" (5 mm) wall thickness	R.M. R.ft.	276.65 84.30	1,482.55 451.90		
e)	6" (150 mm) dia. and 3/16" (5 mm) wall thickness	R.M. R.ft.	442.10 134.75	1,866.50 568.90		
f)	7" (175 mm) dia. and 3/16" (5 mm) wall thickness	R.M. R.ft.	442.10 134.75	3,316.55 1,010.90		
g)	8" (200 mm) dia. and 3/16" (5 mm) wall thickness	R.M. R.ft.	444.90 135.60	3,675.60 1,120.35		
h)	9" (225 mm) dia. and 3/16" (5 mm) wall thickness	R.M. R.ft.	444.90 135.60	4,142.45 1,262.65		
i)	10" (250 mm) dia. and 1/4" (6 mm) wall thickness	R.M. R.ft.	444.90 135.60	6,119.70 1,865.30		
j)	12" (300 mm) dia. and 1/4" (6 mm) wall thickness	R.M.	484.41	6,871.80		



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			Labour	Composite	
		R.ft.	147.65	2,094.55	
k)	15" (375 mm) dia. and 1/4" (6 mm) wall thickness	R.M.	484.41	8,432.36	
		R.ft.	147.65	2,570.20	
l)	18" (450 mm) dia. and 1/4" (6 mm) wall thickness	R.M.	484.41	10,449.30	
		R.ft.	147.65	3,185.00	
m)	20" (500 mm) dia. and 1/4" (6 mm) wall thickness	R.M.	683.20	11,414.60	
		R.ft.	208.25	3,479.20	
n)	22" (550 mm) dia. and 1/4" (6 mm) wall thickness	R.M.	683.20	12,675.15	
		R.ft.	208.25	3,863.45	
27-19	Providing and Installing P.V.C. blind pipe Shavyl or equivalent make in tubewell bore hole and/or laying, cutting, jointing, testing and disinfecting P.V.C. pipe lines in trenches.				27.1.3
a)	Class B				
i)	3" (75 mm) inner dia.	R.M.	137.25	697.10	
		R.ft.	41.85	212.50	
ii)	4" (100 mm) inner dia.	R.M.	137.25	979.75	
		R.ft.	41.85	298.65	
iii)	5" (125 mm) inner dia.	R.M.	205.90	1,382.20	
		R.ft.	62.75	421.30	
iv)	6" (150 mm) inner dia.	R.M.	205.90	993.25	
		R.ft.	62.75	302.75	
v)	8" (200 mm) inner dia.	R.M.	274.50	1,565.25	
		R.ft.	83.65	477.10	
vi)	10" (250 mm) inner dia.	R.M.	274.50	2,313.00	
		R.ft.	83.65	705.00	
vii)	12" (300 mm) inner dia.	R.M.	343.15	3,233.05	
		R.ft.	104.60	985.45	
viii)	14" (350 mm) inner dia.	R.M.	343.15	3,817.95	
		R.ft.	104.60	1,163.75	
b)	Class D				
i)	1.25" (30 mm) inner dia.	R.M.	68.65	174.85	
		R.ft.	20.90	53.30	
ii)	1.5" (40 mm) inner dia.	R.M.	68.65	204.50	
		R.ft.	20.90	62.35	
iii)	2" (50 mm) inner dia.	R.M.	100.25	302.75	
		R.ft.	30.55	92.30	
iv)	3" (75 mm) inner dia.	R.M.	100.25	517.40	
		R.ft.	30.55	157.70	
v)	4" (100 mm) inner dia.	R.M.	137.25	954.20	
		R.ft.	41.85	290.85	
vi)	6" (150 mm) inner dia.	R.M.	137.25	1,605.70	
		R.ft.	41.85	489.40	


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			Labour	Composite	
27-20	Testing and development of tubewell of size 6" (150 mm) inner dia. and above continuously				27.1.6
a)	Upto 1.5 cusecs (0.0425 cumec) discharge	Job	-	1,100.94	
b)	Above 1.5 cusecs (0.0425 cumec) capacity	Job	-	1,376.20	
27-21	Shrouding with graded pea gravel 3/8" to 1/8" (10 mm to 3mm) around tubewell bore hole.	Cu.m. Cu.ft.	1,027.45 29.10	2,992.05 84.75	27.1.4
27-22	Providing, laying, cutting, jointing, testing and disinfecting C.I. pipe line in trenches with spigot and socket, chaulked lead or comet joints or flanged joints or tyton joints including cost of materials such as lead, comet and yarn. (Cost of specials and their installation not included).				27.3.1.1
i)	3" (75 mm) inner dia.	R.M. R.ft.	54.90 16.75	2,650.90 808.00	
ii)	4" (100 mm) inner dia.	R.M. R.ft.	54.90 16.75	3,682.95 1,122.60	
iii)	6" (150 mm) inner dia.	R.M. R.ft.	82.35 25.10	5,851.25 1,783.50	
iv)	8" (200 mm) inner dia.	R.M. R.ft.	137.25 41.85	8,790.60 2,679.40	
27-23	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe line with approved make/brand make including the cost of specials and cost of painting 2 coats with bitumen to pipes and specials after cleaning and wrapping tightly hessian cloth soaked in Mexphalt composition around pipes.				27.3.1.1
a)	Light duty				
i)	1/2" (15 mm) inner dia.	R.M. R.ft.	76.25 23.25	303.15 92.40	
ii)	3/4" (20 mm) inner dia.	R.M. R.ft.	76.25 23.25	403.40 122.95	
iii)	1" (25 mm) inner dia.	R.M. R.ft.	86.75 26.45	548.20 167.10	
iv)	1.25" (30 mm) inner dia.	R.M. R.ft.	86.75 26.45	695.65 212.05	
v)	1.5" (40 mm) inner dia.	R.M. R.ft.	100.25 30.55	877.45 267.45	
vi)	2" (50 mm) inner dia.	R.M. R.ft.	100.25 30.55	1,077.90 328.55	
vii)	2.5" (65 mm) inner dia.	R.M. R.ft.	123.55 37.67	1,462.35 445.84	
viii)	3" (75 mm) inner dia.	R.M. R.ft.	123.55 37.65	1,696.85 517.20	
ix)	4" (100 mm) inner dia.	R.M. R.ft.	137.25 41.85	2,353.50 717.35	
b)	Medium duty				
i)	1/2" (15 mm) inner dia.	R.M. R.ft.	76.25 23.25	364.55 111.10	
ii)	3/4" (20 mm) inner dia.	R.M.	76.25	447.75	

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			Labour	Composite	
		R.ft.	23.25	136.50	
iii)	1" (25 mm) inner dia.	R.M. R.ft.	86.75 26.45	641.95 195.65	
iv)	1.25" (30 mm) inner dia.	R.M. R.ft.	86.75 26.45	806.95 245.95	
v)	1.5" (40 mm) inner dia.	R.M. R.ft.	100.25 30.55	934.05 284.70	
vi)	2" (50 mm) inner dia.	R.M. R.ft.	100.25 30.55	1,077.90 328.55	
vii)	2.5" (65 mm) inner dia.	R.M. R.ft.	123.55 37.65	1,613.85 491.90	
viii)	3" (75 mm) inner dia.	R.M. R.ft.	123.55 37.65	2,044.40 623.15	
ix)	4" (100 mm) inner dia.	R.M. R.ft.	137.25 41.85	2,895.75 882.65	
x)	5" (125 mm) inner dia.	R.M. R.ft.	168.90 51.50	3,891.75 1,186.20	
xi)	6" (150 mm) inner dia.	R.M. R.ft.	168.90 51.50	4,564.90 1,391.40	
27-24	Replacing burst/damaged G.I. pipe line with all excavation, cutting, providing new G.I. medium duty pipe, union, tees, bends, sockets, including threading etc. and painting with 2 coats of bitumen to pipes and specials after cleaning and wrapping tightly hessian cloth soaked in Maxphalt composition around pipes including cost of testing and disinfecting (cost of pipes and all accessories included)				27.3.1.1 27.3.2
i)	1/2" (15 mm) inner dia.	R.M. R.ft.	274.50 83.65	562.80 171.55	
ii)	3/4" (20 mm) inner dia.	R.M. R.ft.	274.50 83.65	646.00 196.90	
iii)	1" (25 mm) inner dia.	R.M. R.ft.	274.50 83.65	829.70 252.90	
iv)	1.25" (30 mm) inner dia.	R.M. R.ft.	274.50 83.65	994.70 303.20	
v)	1.5" (40 mm) inner dia.	R.M. R.ft.	274.50 83.65	1,108.30 337.80	
vi)	2" (50 mm) inner dia.	R.M. R.ft.	274.50 83.65	1,252.15 381.65	
vii)	2.5" (65 mm) inner dia.	R.M. R.ft.	274.50 83.65	1,764.80 537.90	
viii)	3" (75 mm) inner dia.	R.M. R.ft.	274.50 83.65	2,195.35 669.15	
ix)	4" (100 mm) inner dia.	R.M. R.ft.	274.50 83.65	3,033.00 924.45	
x)	5" (125 mm) inner dia.	R.M. R.ft.	274.50 83.65	3,997.35 1,218.40	
xi)	6" (150 mm) inner dia.	R.M. R.ft.	274.50 83.65	4,670.50 1,423.60	



Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
27-25	Providing, laying, cutting, jointing, testing and disinfecting asbestos cement pipe line in trenches including comet joint and rubber ring.				27.3.1.1 27.3.2
a)	Class B working pressure				
i)	3" (75 mm) inner dia.	R.M. R.ft.	137.25 41.85	800.05 243.85	
ii)	4" (100 mm) inner dia.	R.M. R.ft.	137.25 41.85	1,047.45 319.25	
iii)	6" (150 mm) inner dia.	R.M. R.ft.	205.90 62.75	1,630.15 496.90	
iv)	8" (200 mm) inner dia.	R.M. R.ft.	205.90 62.75	2,539.10 773.95	
v)	10" (250 mm) inner dia.	R.M. R.ft.	343.15 104.60	3,622.45 1,104.15	
vi)	12" (300 mm) inner dia.	R.M. R.ft.	343.15 104.60	4,505.75 1,373.35	
vii)	14" (350 mm) inner dia.	R.M. R.ft.	480.40 146.45	5,820.59 1,774.15	
viii)	16" (400 mm) inner dia.	R.M. R.ft.	480.40 146.45	7,271.05 2,216.25	
ix)	18" (450 mm) inner dia.	R.M. R.ft.	617.65 188.25	9,069.70 2,764.50	
x)	20" (500 mm) inner dia.	R.M. R.ft.	617.65 188.25	11,045.30 3,366.65	
xi)	24" (600 mm) inner dia.	R.M. R.ft.	686.25 209.15	15,193.15 4,630.95	
b)	Class C working pressure				
i)	3" (75 mm) inner dia.	R.M. R.ft.	137.25 41.85	746.19 227.45	
ii)	4" (100 mm) inner dia.	R.M. R.ft.	137.25 41.85	1,033.35 314.95	
iii)	6" (150 mm) inner dia.	R.M. R.ft.	205.90 62.75	1,762.22 537.15	
iv)	8" (200 mm) inner dia.	R.M. R.ft.	205.90 62.75	2,682.69 817.70	
v)	10" (250 mm) inner dia.	R.M. R.ft.	343.15 104.60	3,799.37 1,158.05	
vi)	12" (300 mm) inner dia.	R.M. R.ft.	343.15 104.60	5,165.96 1,574.60	
vii)	14" (350 mm) inner dia.	R.M. R.ft.	480.40 146.45	7,927.43 2,416.30	
viii)	16" (400 mm) inner dia.	R.M. R.ft.	480.40 146.45	10,008.08 3,050.50	



Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.	
			Labour	Composite		
ix)	18" (450 mm) inner dia.	R.M.	617.65	12,306.75		
		R.ft.	188.25	3,751.15		
x)	20" (500 mm) inner dia.	R.M.	617.65	14,536.12		
		R.ft.	188.25	4,430.65		
xi)	24" (600 mm) inner dia.	R.M.	686.25	20,323.63		
		R.ft.	209.15	6,194.70		
						
c) Class D working pressure						
i)	3" (75 mm) inner dia.	R.M.	137.25	780.80		
		R.ft.	41.85	238.00		
ii)	4" (100 mm) inner dia.	R.M.	137.25	1,214.11		
		R.ft.	41.85	370.05		
iii)	6" (150 mm) inner dia.	R.M.	205.90	2,177.59		
		R.ft.	62.75	663.75		
iv)	8" (200 mm) inner dia.	R.M.	205.90	3,704.37		
		R.ft.	62.75	1,129.10		
v)	10" (250 mm) inner dia.	R.M.	343.15	5,519.38		
		R.ft.	104.60	1,682.35		
vi)	12" (300 mm) inner dia.	R.M.	343.15	7,911.97		
		R.ft.	104.60	2,411.60		
vii)	14" (350 mm) inner dia.	R.M.	480.40	11,787.37		
		R.ft.	146.45	3,592.85		
viii)	16" (400 mm) inner dia.	R.M.	480.40	15,105.03		
		R.ft.	146.45	4,604.05		
ix)	18" (450 mm) inner dia.	R.M.	617.65	18,231.96		
		R.ft.	188.25	5,557.15		
x)	20" (500 mm) inner dia.	R.M.	617.65	22,108.88		
		R.ft.	188.25	6,738.85		
27-26	Providing, laying, cutting, jointing, testing and disinfecting Ductile iron pipe line in trenches including all fittings and accessories.				27.3.1.1	
27.3.2						
i)	4" (100 mm) inner dia.	R.M.	480.40	1,762.35		
		R.ft.	146.45	537.15		
ii)	6" (150 mm) inner dia.	R.M.	480.40	2,723.85		
		R.ft.	146.45	830.25		
iii)	8" (200 mm) inner dia.	R.M.	617.65	3,181.60		
		R.ft.	188.25	969.75		
iv)	10" (250 mm) inner dia.	R.M.	617.65	3,822.60		
		R.ft.	188.25	1,165.15		
v)	12" (300 mm) inner dia.	R.M.	892.15	5,379.05		
		R.ft.	271.95	1,639.55		
vi)	16" (400 mm) inner dia.	R.M.	892.15	6,661.05		
		R.ft.	271.95	2,030.30		
vii)	18" (450 mm) inner dia.	R.M.	1,372.50	7,782.40		
		R.ft.	418.35	2,372.10		
viii)	20" (500 mm) inner dia.	R.M.	1,372.50	8,423.40		
		R.ft.	418.35	2,567.50		

Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
27-27	ix) 24" (600 mm) inner dia.	R.M. R.ft.	1,647.00 502.00	9,979.90 3,041.90	27.3.1 27.3.2
	Providing and fixing C.I. specials of class-B such as bends, tees, cross, collars, reducers, tail pieces, flanged spigot, caps, flanged sockets, tapers, angle, branch and plugs including turning, threading, facing and fitting for C.I. pipe line.				
	a) Cast iron S.S. specials with spigot and socket joint				
	i) 3" to 6" (75 mm to 150 mm) dia.	Kg. Lb.	54.90 24.90	184.50 83.70	
	ii) 8" to 12" (200 mm to 300 mm) inner dia.	Kg. Lb.	41.20 18.70	170.80 77.45	
	iii) 15" to 18" (375 mm to 450 mm) inner dia.	Kg. Lb.	27.45 12.45	157.05 71.25	
	b) Cast iron flanged specials with flanged joints				
	i) 3" to 6" (75 mm to 150 mm) dia.	Kg. Lb.	27.45 12.45	157.05 71.25	
	ii) 8" to 12" (200 mm to 300 mm) inner dia.	Kg. Lb.	21.10 9.55	150.75 68.40	
	iii) 15" to 18" (375 mm to 450 mm) inner dia.	Kg. Lb.	13.75 6.25	143.35 65.00	
	c) Cast iron specials with tyton joints				
	i) 3" to 6" (75 mm to 150 mm) dia.	Kg. Lb.	13.75 6.25	143.35 65.00	
	ii) 8" to 12" (200 mm to 300 mm) inner dia.	Kg. Lb.	13.75 6.25	190.50 86.40	
	iii) 15" to 18" (375 mm to 450 mm) inner dia.	Kg. Lb.	13.75 6.25	225.85 102.45	
	27-28	Providing and fixing C.I. special of BSS, Class-B such as bends, tees, cross, collar, reducers, tail pieces, flanged sockets, flanged spigots, caps, tapers, angle branch and plugs for asbestos cement pipe line with comet joint and rubber ring.			
i) 3" to 6" (75 mm to 150 mm) dia.		Kg. Lb.	68.65 31.15	198.24 89.90	
ii) 8" to 18" (200 mm to 450 mm) inner dia.		Kg. Lb.	48.55 22.00	178.18 80.80	
iii) 20" to 24" (500 mm to 600 mm) inner dia.		Kg. Lb.	34.85 15.80	164.46 74.60	
27-29	Providing and fixing C.I. sluice valve of BSS quality and weight, Class B, for C.I. pipe line and A.C. pipe line including cost of jointing material.				27.3.1.2
	a) 3" (75 mm) inner dia.	Each	187.58	6,318.25	
	b) 4" (100 mm) inner dia.	Each	187.58	9,843.70	
	c) 6" (150 mm) inner dia.	Each	237.52	15,621.29	
	d) 9" 225 mm inner dia.	Each	237.52	23,059.36	
	e) 12" (300 mm) inner dia.	Each	343.13	48,021.58	
	f) 15" (375 mm) inner dia.	Each	343.13	54,610.51	

Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
	g) 18" (450 mm) inner dia.	Each	480.38	124,565.44	
	h) 21" (525 mm) inner dia.	Each	480.38	159,156.93	
	i) 24" (600 mm) inner dia.	Each	686.25	222,984.40	
	j) 27" (675 mm) inner dia.	Each	686.25	286,304.05	
	k) 30" (750 mm) inner dia.	Each	823.50	381,647.23	
27-30	Providing and fixing C.I. sluice valve of BSS quality and weight for asbestos cement pipe line with comet joint and rubber ring including cost of jointing material.				27.3.1.2
	a) 3" (75 mm) inner dia.	Each	187.58	6,385.70	
	b) 4" (100 mm) inner dia.	Each	187.58	9,934.72	
	c) 6" (150 mm) inner dia.	Each	237.52	16,044.22	
27-31	Providing and fixing fire hydrants standard pattern 3" (75mm) dia. inlet and 2.5" (65mm) dia screw outlet. BSS quality and weight, cost of jointing material is included.	Each	322.16	3,720.35	27.3.1.4
27-32	Providing and fixing air valve 2.5" (65 mm) inner dia.of BSS quality and weight, cost of jointing material is included.				27.3.2.2
	a) Single	Each	686.25	3,987.35	
	b) Double	Each	686.25	8,234.86	
27-33	Cutting C.I. pipe and welding spigot or socket flanged or tyton end including finishing ends of pipe.				27.3.1.1
	a) 3" to 6" (75 mm to 150 mm) dia.	Per 1" dia. of pipe	29.13	113.61	
	b) 8" to 12" (200 mm to 300 mm) inner dia.	Per 1" dia. of pipe	25.50	104.14	
	c) 15" to 18" (375 mm to 450 mm) inner dia.	Per 1" dia. of pipe	24.55	98.19	
27-34	Providing and installing P.V.C. bends of Shayvl or equivalent make.				27.3.1.1
	a) Class B				
	i) 3" (75 mm) inner dia.	Each	111.33	405.13	
	ii) 4" (100 mm) inner dia.	Each	131.78	808.90	
	iii) 5" (125 mm) inner dia.	Each	209.92	1,397.44	
	iv) 6" (150 mm) inner dia.	Each	246.94	1,423.18	
	v) 8" (200 mm) inner dia.	Each	261.92	2,020.29	
	b) Class D				
	i) 1.25" (30 mm) inner dia.	Each	73.58	120.61	
	ii) 1.5" (40 mm) inner dia.	Each	73.58	129.50	
	iii) 2" (50 mm) inner dia.	Each	94.55	181.05	
	iv) 3" (75 mm) inner dia.	Each	94.55	346.60	
	v) 4" (100 mm) inner dia.	Each	137.25	677.25	

Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
vi)	5" (125 mm) inner dia.	Each	137.25	1,268.65	27.2
vii)	6" (150 mm) inner dia.	Each	186.35	1,736.45	
27-35	Providing and installing P.V.C. tees of Shayl or equivalent make				
a) Class B					
i)	3" (75 mm) inner dia.	Each	190.65	696.35	
ii)	4" (100 mm) inner dia.	Each	190.65	1,245.75	
iii)	5" (125 mm) inner dia.	Each	257.75	1,759.90	
iv)	6" (150 mm) inner dia.	Each	257.75	2,396.75	
v)	8" (200 mm) inner dia.	Each	287.10	2,027.25	
vi)	10" (250 mm) inner dia.	Each	287.10	3,513.15	
vii)	12" (300 mm) inner dia.	Each	356.95	4,831.90	
viii)	14" (350 mm) inner dia.	Each	356.95	4,748.80	
b) Class D					
i)	1.25" (30 mm) inner dia.	Each	73.58	120.61	
ii)	1.5" (40 mm) inner dia.	Each	73.58	129.50	
iii)	2" (50 mm) inner dia.	Each	94.55	181.05	
iv)	3" (75 mm) inner dia.	Each	94.55	346.60	
v)	4" (100 mm) inner dia.	Each	137.25	677.25	
vi)	5" (125 mm) inner dia.	Each	137.25	1,268.65	
vii)	6" (150 mm) inner dia.	Each	186.35	1,736.45	
27-36	Providing and installing P.V.C. bail or end plug of Shayl or equivalent make.				27.3
a) Class B					27.2
i)	3" (75 mm) inner dia.	Each	190.65	550.25	
ii)	4" (100 mm) inner dia.	Each	190.65	698.75	
iii)	5" (125 mm) inner dia.	Each	257.75	756.80	
iv)	6" (150 mm) inner dia.	Each	257.75	965.10	
v)	8" (200 mm) inner dia.	Each	290.45	1,193.75	
vi)	10" (250 mm) inner dia.	Each	290.45	1,542.10	
vii)	12" (300 mm) inner dia.	Each	356.95	1,778.00	
viii)	14" (350 mm) inner dia.	Each	356.95	2,127.35	
b) Class D					
i)	1.25" (30 mm) inner dia.	Each	130.40	236.55	
ii)	1.5" (40 mm) inner dia.	Each	130.40	306.75	
iii)	2" (50 mm) inner dia.	Each	149.55	482.45	
iv)	3" (75 mm) inner dia.	Each	149.55	561.85	

Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
v)	4" (100 mm) inner dia.	Each	215.80	734.20	27.3.1.1
vi)	5" (125 mm) inner dia.	Each	215.80	888.25	
vii)	6" (150 mm) inner dia.	Each	268.65	1,010.25	
27-37	Providing and installing P.V.C. tapered core of Shayvl or equivalent make.				
a) Class B					
i)	3" (75 mm) inner dia.	Each	81.30	176.45	
ii)	4" (100 mm) inner dia.	Each	81.30	208.58	
iii)	5" (125 mm) inner dia.	Each	95.30	255.50	
iv)	6" (150 mm) inner dia.	Each	95.30	277.45	
v)	8" (200 mm) inner dia.	Each	119.85	411.23	
b) Class D					
i)	1.25" (30 mm) inner dia.	Each	75.85	108.05	
ii)	1.5" (40 mm) inner dia.	Each	75.85	124.60	
iii)	2" (50 mm) inner dia.	Each	95.30	145.75	
27-38	Providing and installing P.V.C. conduit of Class B or D of Beta or equivalent make				27.3.1.1
a)	1.25" (30 mm) inner dia.	Each	73.60	152.35	
b)	1.5" (40 mm) inner dia.	Each	73.60	181.40	
c)	2" (50 mm) inner dia.	Each	95.30	247.15	
d)	3" (75 mm) inner dia.	Each	95.30	331.40	
e)	4" (100 mm) inner dia.	Each	111.90	491.15	
27-39	Providing and installing P.V.C. V socket of Class B or D of Beta or equivalent make.				27.3.1.1
a)	1.25" (30 mm) inner dia.	Each	80.35	158.40	
b)	1.5" (40 mm) inner dia.	Each	80.35	213.10	
c)	2" (50 mm) inner dia.	Each	95.30	316.85	
d)	3" (75 mm) inner dia.	Each	95.30	478.15	
e)	4" (100 mm) inner dia.	Each	117.75	647.15	
27-40	Providing and installing P.V.C. crosser of Beta or equivalent make.				27.3.1.1
a) Class B					
i)	3" (75 mm) inner dia.	Each	174.90	379.95	
ii)	4" (100 mm) inner dia.	Each	174.90	525.50	
iii)	5" (125 mm) inner dia.	Each	257.75	813.20	
iv)	6" (150 mm) inner dia.	Each	257.75	1,218.85	
v)	8" (200 mm) inner dia.	Each	287.90	1,762.10	
vi)	10" (250 mm) inner dia.	Each	287.90	2,448.00	




Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
vii)	12" (300 mm) inner dia.	Each	333.20	3,258.00	
viii)	14" (350 mm) inner dia.	Each	333.20	4,323.60	
b)	Class D				
i)	1.25" (30 mm) inner dia.	Each	120.50	227.40	
ii)	1.5" (40 mm) inner dia.	Each	120.50	331.75	
iii)	2" (50 mm) inner dia.	Each	137.25	415.60	
iv)	3" (75 mm) inner dia.	Each	137.25	554.75	
v)	4" (100 mm) inner dia.	Each	214.95	928.15	
vi)	5" (125 mm) inner dia.	Each	214.95	1,783.50	
vii)	6" (150 mm) inner dia.	Each	287.90	2,732.00	
27-41	Add extra for respective payable item of ground floor				27.6
a)	For first floor	% Increase		0.10	
b)	For every additional floor above first floor	% Increase		0.08	
27-42	Providing, laying, cutting, jointing, testing and disinfecting HDPE pipes density 700-960 kg/cu.m and carbon black contents > 2% with DIN-8074, 8075 or PS-3580:1997(rev.) ISO 9001-2000 pressure classification of PE -100 (black) for water PN-10, complete in all				27.5
ii)	20 mm	RM Rft	7.63 2.32	70.97 21.64	
iii)	25 mm	RM Rft	7.63 2.32	85.49 26.06	
iv)	32 mm	RM Rft	7.63 2.32	109.24 33.31	



Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
v)	40 mm	RM	7.63	173.91	
		Rft	2.32	53.02	
vi)	50 mm	RM	-	-	
		Rft	-	-	
vii)	63 mm	RM	7.63	257.05	
		Rft	2.32	78.37	
viii)	75 mm	RM	7.63	398.25	
		Rft	2.32	121.42	
ix)	90 mm	RM	7.63	560.57	
		Rft	2.32	170.91	
x)	110 mm	RM	7.63	803.40	
		Rft	2.32	244.94	
xi)	125 mm	RM	9.76	1,192.20	
		Rft	2.98	363.48	
xii)	160 mm	RM	9.76	1,502.49	
		Rft	2.98	458.08	
xiii)	180 mm	RM	9.76	1,844.82	
		Rft	2.98	562.45	
xiv)	200 mm	RM	9.76	2,485.49	
		Rft	2.98	757.77	
xv)	225 mm	RM	9.76	3,147.97	
		Rft	2.98	959.75	
xvi)	250 mm	RM	9.76	3,885.68	
		Rft	2.98	1,184.66	
xvii)	280 mm	RM	10.83	7,545.05	
		Rft	3.30	2,300.32	
xviii)	315 mm	RM	10.83	9,672.42	
		Rft	3.30	2,948.91	
xix)	350 mm	RM	-	-	
		Rft	-	-	
xx)	400 mm	RM	-	-	
		Rft	-	-	
27-43	Providing, laying, cutting, jointing, testing and disinfecting HDPE pipes density 700-960 kg/cu.m and carbon black contents > 2% with DIN-8074, 8075 or PS-3580:1997 (rev.) ISO 9001-2000 pressure classification of PE -100 (black) for water PN-16, complete in all respects with specials and valves etc.				27.5
i)	(20mm)	RM	7.63	81.53	
		Rft	2.32	24.86	
ii)	(25mm)	RM	7.63	103.96	
		Rft	2.32	31.70	
iii)	(32mm)	RM	7.63	180.50	
		Rft	2.32	55.03	



Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
iv)	(40mm)	RM	7.63	235.93	
		Rft	2.32	71.93	
v)	50mm)	RM	-	-	
		Rft	-	-	
vi)	(50mm)	RM	7.63	377.14	
		Rft	2.32	114.98	
vii)	(63mm)	RM	7.63	583.01	
		Rft	2.32	177.75	
viii)	(75mm)	RM	7.63	811.31	
		Rft	2.32	247.35	
ix)	(90mm)	RM	7.63	1,179.51	
		Rft	2.32	359.61	
x)	(110mm)	RM	9.76	1,742.51	
		Rft	2.98	531.25	
xi)	(125mm)	RM	9.76	2,253.23	
		Rft	2.98	686.96	
xii)	(160mm)	RM	9.76	3,686.41	
		Rft	2.98	1,123.90	
xiii)	(180mm)	RM	9.76	4,657.44	
		Rft	2.98	1,419.95	
xiv)	(200mm)	RM	10.83	5,740.90	
		Rft	3.30	1,750.28	
xv)	(225mm)	RM	10.83	8,946.42	
		Rft	3.30	2,727.57	
xvi)	(250mm)	RM	10.83	8,602.74	
		Rft	3.30	2,622.79	
xvii)	(280mm)	RM	10.83	11,283.76	
		Rft	3.30	3,440.17	
xviii)	(315mm)	RM	11.90	14,226.66	
		Rft	3.63	4,337.40	
xix)	(350mm)	RM	11.90	18,057.98	
		Rft	3.63	5,505.48	
xx)	(400mm)	RM	11.90	22,944.31	
		Rft	3.63	6,995.22	
27-44	Providing and fixing LDPE overhead tank manufactured by Dura or equivalent on top of any floor				27.6
i)	300 gallons capacity	Each	1,870.20	21,507.10	
ii)	500 gallons capacity	Each	1,131.15	31,536.70	
iii)	1000 gallons capacity	Each	1,131.15	65,531.85	
iv)	1200 gallons capacity	Each	1,131.15	76,617.20	
27-45	Cleaning of overhead water tank	Cu.m. Cu.ft.	15.80 0.45	16.35 0.45	
27-46	Supply and fixing 1/8" thick galvanized iron sheet water tank of approved design and size including covering and locking arrangement and erection and positioning excluding the cost of pillars and painting	Each	1,131.15	56,082.00	