

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. R.ft.	67.25 20.50	558.76 170.30	
b)	4" (100 mm) inner dia.	R.M. R.ft.	90.80 27.70	1,197.29 364.95	
c)	5" (125 mm) inner dia.	R.M. R.ft.	163.45 49.80	1,841.95 561.45	
d)	6" (150 mm) inner dia.	R.M. R.ft.	245.20 74.75	2,477.94 755.30	
e)	8" (200 mm) inner dia.	R.M. R.ft.	326.10 99.40	3,123.45 952.05	
f)	10" (250 mm) inner dia.	R.M. R.ft.	407.65 124.25	3,754.13 1,144.25	
g)	12" (300 mm) inner dia.	R.M. R.ft.	424.63 129.45	4,406.29 1,343.05	
h)	15" (375 mm) inner dia.	R.M. R.ft.	631.90 192.60	5,030.05 1,533.20	
i)	18" (450 mm) inner dia.	R.M. R.ft.	672.26 204.90	5,525.13 1,684.10	
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. R.ft.	277.85 84.70	2,505.04 763.55	
b)	6" (150 mm) inner dia.	R.M. R.ft.	392.32 119.60	3,097.42 944.10	
c)	8" (200 mm) inner dia.	R.M. R.ft.	423.95 129.20	3,691.36 1,125.15	
d)	10" (250 mm) inner dia.	R.M. R.ft.	481.97 146.90	4,290.48 1,307.75	
e)	12" (300 mm) inner dia.	R.M. R.ft.	525.05 160.05	4,895.85 1,492.25	
f)	15" (375 mm) inner dia.	R.M. R.ft.	745.33 227.20	5,483.03 1,671.25	
g)	18" (450 mm) inner dia.	R.M. R.ft.	780.91 238.00	6,051.33 1,844.45	
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.	388.70 118.50	3,504.46 1,068.15	

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	b) 6" (150 mm) inner dia.	R.M. R.ft.	502.97 153.30	3,944.81 1,202.40	
	c) 8" (200 mm) inner dia.	R.M. R.ft.	529.95 161.55	4,660.81 1,420.65	
	d) 10" (250 mm) inner dia.	R.M. R.ft.	596.24 181.75	5,335.34 1,626.25	
	e) 12" (300 mm) inner dia.	R.M. R.ft.	630.05 192.05	5,875.00 1,790.70	
	f) 15" (375 mm) inner dia.	R.M. R.ft.	819.85 249.90	6,031.30 1,838.35	
	g) 18" (450 mm) inner dia.	R.M. R.ft.	859.00 261.85	3,328.25 1,014.45	
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.	635.95 193.85	5,621.11 1,713.35	
	b) 10" (250 mm) inner dia.	R.M. R.ft.	715.50 218.10	6,370.55 1,941.75	
	c) 12" (300 mm) inner dia.	R.M. R.ft.	749.75 228.55	6,980.20 2,127.60	
	d) 15" (375 mm) inner dia.	R.M. R.ft.	914.72 278.80	7,347.82 2,239.65	
	e) 18" (450 mm) inner dia.	R.M. R.ft.	1,005.66 306.55	7,755.15 2,363.80	
27-5	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 (15" to 18")	R.M. R.ft.	1,185.38 361.40	1,691.99 515.85	
	ii. (500 mm to 700 mm) i/d (20" to 28")	R.M. R.ft.	1,505.43 458.97	2,095.87 638.99	
	b) Exceeding 250 ft (75 m.) depth below ground level				
	i. (375 mm to 450 mm) i/d (15" to 18")	R.M. R.ft.	1,327.62 404.76	1,889.13 575.95	
	ii. (500 mm to 750 mm) i/d (20" to 28")	R.M. R.ft.	1,671.03 509.46	2,382.34 726.32	
27-6	Reverse rotary drilling for Pilling in shingle, gravel or rock.	Cu.m Cu.ft.	3,315.00 1,010.67	9,160.45 2,792.15	27.1.2
27-7	Reverse rotary drilling of bore 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.	4,828.76 1,472.18	8,691.76 2,649.93	

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	ii) 20" to 30" (500 mm to 750 mm) inner dia.	R.M.	5,988.30	10,778.92	
		R.ft.	1,825.70	3,286.26	
	b) Exceeding 250 ft (75 m.) depth below ground level				
	i) 15" to 18" (375 mm to 450 mm) inner dia.	R.M.	6,886.53	12,394.44	
		R.ft.	2,099.55	3,778.79	
	ii) 20" to 30" (500 mm to 750 mm) inner dia.	R.M.	7,575.20	13,635.36	
		R.ft.	2,309.51	4,157.12	
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.	5,988.30	15,789.13	
		R.ft.	1,825.70	4,813.76	
	ii) 20" to 30" (500 mm to 750 mm) inner dia.	R.M.	6,886.53	19,297.80	
		R.ft.	2,099.55	5,360.50	
	b) Exceeding 250 ft (75 m.) depth below ground level				
	i) 15" to 18" (375 mm to 450 mm) inner dia.	R.M.	#####	21,087.01	
		R.ft.	3,194.98	5,857.50	
	ii) 20" to 30" (500 mm to 750 mm) inner dia.	R.M.	#####	22,192.50	
		R.ft.	3,485.26	6,340.71	
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	1,094.45	14,347.55	27.1.2.5
27-10	Furnishing sample of water from bore hole.	Per set of two bottles	182.50	229.75	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.	134.70	3,128.55	
		R.ft.	41.05	953.60	
	b) 3" (75 mm) dia. and 5/32" (4 mm) wall thickness	R.M.	134.70	4,261.90	
		R.ft.	41.05	1,299.05	
	c) 4" (100 mm) dia. and 3/16" (5 mm) wall thickness	R.M.	134.70	5,168.40	
		R.ft.	41.05	1,575.35	
	d) 5" (125 mm) dia. and 3/16" (5 mm) wall thickness	R.M.	147.60	5,969.85	
		R.ft.	45.00	1,819.65	
	e) 6" (150 mm) dia. and 3/16" (5 mm) wall thickness	R.M.	147.60	6,367.90	
		R.ft.	45.00	1,940.95	
	f) 7" (175 mm) dia. and 3/16" (5 mm) wall thickness	R.M.	147.60	7,493.35	
		R.ft.	45.00	2,284.00	
	g) 8" (200 mm) dia. and 3/16" (5 mm) wall thickness	R.M.	213.55	9,452.40	
		R.ft.	65.10	2,881.15	

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			Labour	Composite	
	h) 9" (225 mm) dia. and 3/16" (5 mm) wall thickness	R.M. R.ft.	213.55 65.10	10,050.40 3,063.40	
	i) 10" (250 mm) dia. with 3/16" (5 mm) wall thickness	R.M. R.ft.	213.55 65.10	11,045.29 3,366.65	
	j) 10" (250 mm) dia. and 1/4" (6 mm) wall thickness	R.M. R.ft.	246.00 75.00	10,476.55 3,193.30	
	k) 12" (300 mm) dia. and 1/4" (6 mm) wall thickness	R.M. R.ft.	246.00 75.00	11,454.10 3,491.25	
	l) 15" (375 mm) dia. and 1/4" (6 mm) wall thickness	R.M. R.ft.	279.55 85.20	12,645.30 3,854.35	
	m) 18" (450 mm) dia. and 1/4" (6 mm) wall thickness	R.M. R.ft.	279.55 85.20	16,713.80 5,094.45	
	n) 20" (500 mm) dia. and 1/4" (6 mm) wall thickness	R.M. R.ft.	344.87 105.10	18,442.35 5,621.30	
	o) 22" (550 mm) dia. and 1/4" (6 mm) wall thickness	R.M. R.ft.	344.87 105.14	21,212.00 6,465.50	
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	207.75	723.50	
	b) 3" (75 mm) inner dia.	Each	207.75	1,010.40	
	c) 4" (100 mm) inner dia.	Each	288.54	1,593.15	
	d) 5" (125 mm) inner dia.	Each	288.54	2,088.40	
	e) 6" (150 mm) inner dia.	Each	349.16	2,469.85	
	f) 7" (175 mm) dia	Each	349.16	2,935.30	
	g) 8" (200 mm) inner dia.	Each	419.70	3,172.45	
	h) 9" 225 mm inner dia.	Each	419.70	3,567.75	
	i) 10" (250 mm) inner dia.	Each	483.14	4,832.70	
	j) 12" (300 mm) inner dia.	Each	483.14	5,834.50	
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. R.ft.	146.25 44.60	4,235.35 1,290.95	
	b) 10" (250 mm) dia. and 0.2" to 0.22" (5 mm to 5.5 mm) wall	R.M. R.ft.	146.25 44.60	4,784.65 1,458.40	
27-14	Providing and installing fibre glass bail/end plug in tubewell bore.				27.1.3
	a) 8" (200 mm) inner dia.	Each	41.79	507.10	
	b) 10" (250 mm) inner dia.	Each	50.43	635.05	

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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.	146.25 44.60	1,299.75 396.15	
b)	10" (250 mm) dia. with 3/16" (5 mm) wall thickness	R.M. R.ft.	204.75 62.40	1,571.45 479.00	
c)	14" (350 mm) dia. and 3/16" to 1/4" (5 mm to 6 mm) wall	R.M. R.ft.	272.03 82.90	1,944.45 592.70	
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.	26.89 8.20	77.65 23.65	
ii)	4" (100 mm) inner dia.	R.M. R.ft.	26.89 8.20	100.20 30.55	
iii)	5" (125 mm) inner dia.	R.M. R.ft.	57.78 17.60	191.60 58.40	
iv)	6" (150 mm) inner dia.	R.M. R.ft.	57.78 17.60	226.85 69.15	
v)	8" (200 mm) inner dia.	R.M. R.ft.	85.90 26.20	457.15 139.35	
vi)	10" (250 mm) inner dia.	R.M. R.ft.	85.90 26.20	614.75 187.40	
vii)	12" (300 mm) inner dia.	R.M. R.ft.	125.54 38.25	715.30 218.05	
viii)	14" (350 mm) inner dia.	R.M. R.ft.	163.20 49.75	883.50 269.30	
b)	Class D				
i)	1.25" (30 mm) inner dia.	R.M. R.ft.	18.95 5.80	42.30 12.90	
ii)	1.5" (40 mm) inner dia.	R.M. R.ft.	18.95 5.80	60.05 18.30	
iii)	2" (50 mm) inner dia.	R.M. R.ft.	26.30 8.00	84.20 25.65	
iv)	3" (75 mm) inner dia.	R.M. R.ft.	37.50 11.45	112.80 34.40	
v)	4" (100 mm) inner dia.	R.M. R.ft.	56.25 17.15	144.60 44.05	
vi)	5" (125 mm) inner dia.	R.M. R.ft.	70.50 21.50	206.15 62.85	
vii)	6" (150 mm) inner dia.	R.M. R.ft.	70.50 21.50	264.80 80.70	

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			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	51.75	219.70	
ii)	4" (100 mm) inner dia.	Each	51.75	266.10	
iii)	5" (125 mm) inner dia.	Each	51.75	544.45	
iv)	6" (150 mm) inner dia.	Each	69.00	734.00	
v)	8" (200 mm) inner dia.	Each	69.00	929.25	
vi)	10" (250 mm) inner dia.	Each	69.00	1,222.50	
vii)	12" (300 mm) inner dia.	Each	103.50	1,631.95	
viii)	14" (350 mm) inner dia.	Each	103.50	1,979.90	
b)	Class D				
i)	1.25" (30 mm) inner dia.	Each	34.50	116.30	
ii)	1.5" (40 mm) inner dia.	Each	34.50	142.80	
iii)	2" (50 mm) inner dia.	Each	34.50	169.35	
iv)	3" (75 mm) inner dia.	Each	51.75	378.75	
v)	4" (100 mm) inner dia.	Each	51.75	451.65	
vi)	5" (125 mm) inner dia.	Each	51.75	546.95	
vii)	6" (150 mm) inner dia.	Each	51.75	661.05	
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.	267.30 81.45	675.62 205.95	
b)	3" (75 mm) dia. and 1/8" (3 mm) wall thickness	R.M. R.ft.	267.30 81.45	923.09 281.35	
c)	4" (100 mm) dia. and 1/8" (3 mm) wall thickness	R.M. R.ft.	334.65 102.00	1,192.02 363.35	
d)	5" (125 mm) dia. and 3/16" (5 mm) wall thickness	R.M. R.ft.	334.65 102.00	1,414.05 431.00	
e)	6" (150 mm) dia. and 3/16" (5 mm) wall thickness	R.M. R.ft.	533.40 162.60	1,808.35 551.20	
f)	7" (175 mm) dia. and 3/16" (5 mm) wall thickness	R.M. R.ft.	533.40 162.60	3,106.30 946.80	
g)	8" (200 mm) dia. and 3/16" (5 mm) wall thickness	R.M. R.ft.	541.15 164.95	3,432.90 1,046.35	
h)	9" (225 mm) dia. and 3/16" (5 mm) wall thickness	R.M. R.ft.	541.15 164.95	3,850.80 1,173.75	



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			Labour	Composite	
i)	10" (250 mm) dia. and 1/4" (6 mm) wall thickness	R.M.	541.15	5,620.65	27.1.3
		R.ft.	164.95	1,713.20	
j)	12" (300 mm) dia. and 1/4" (6 mm) wall thickness	R.M.	608.82	6,299.90	
		R.ft.	185.55	1,920.25	
k)	15" (375 mm) dia. and 1/4" (6 mm) wall thickness	R.M.	608.82	7,618.04	
		R.ft.	185.55	2,322.00	
l)	18" (450 mm) dia. and 1/4" (6 mm) wall thickness	R.M.	608.82	9,528.40	
		R.ft.	185.55	2,904.30	
m)	20" (500 mm) dia. and 1/4" (6 mm) wall thickness	R.M.	831.75	10,437.45	
		R.ft.	253.50	3,181.35	
n)	22" (550 mm) dia. and 1/4" (6 mm) wall thickness	R.M.	831.75	11,565.70	
		R.ft.	253.50	3,525.25	
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.				
	a) Class B				
i)	3" (75 mm) inner dia.	R.M.	168.75	574.65	
		R.ft.	51.45	175.15	
ii)	4" (100 mm) inner dia.	R.M.	168.75	787.15	
		R.ft.	51.45	239.95	
iii)	5" (125 mm) inner dia.	R.M.	253.15	1,000.70	
		R.ft.	77.15	305.00	
iv)	6" (150 mm) inner dia.	R.M.	253.15	1,246.85	
		R.ft.	77.15	380.05	
v)	8" (200 mm) inner dia.	R.M.	337.50	1,492.85	
		R.ft.	102.85	455.05	
vi)	10" (250 mm) inner dia.	R.M.	337.50	2,162.15	
		R.ft.	102.85	659.05	
vii)	12" (300 mm) inner dia.	R.M.	421.90	3,008.65	
		R.ft.	128.60	917.05	
viii)	14" (350 mm) inner dia.	R.M.	421.90	3,532.15	
		R.ft.	128.60	1,076.60	
	b) Class D				
i)	1.25" (30 mm) inner dia.	R.M.	84.40	179.45	
		R.ft.	25.75	54.70	
ii)	1.5" (40 mm) inner dia.	R.M.	84.40	206.00	
		R.ft.	25.75	62.80	
iii)	2" (50 mm) inner dia.	R.M.	123.75	304.95	
		R.ft.	37.70	92.95	
iv)	3" (75 mm) inner dia.	R.M.	123.75	497.15	
		R.ft.	37.70	151.55	
v)	4" (100 mm) inner dia.	R.M.	168.75	900.00	
		R.ft.	51.45	274.30	

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	vi) 6" (150 mm) inner dia.	R.M. R.ft.	168.75 51.45	1,483.15 452.05	
27-20	Testing and development of tubewell of size 6" (150 mm) inner dia. and above continuously by pumping raw hiding method.				27.1.6
	a) Upto 1.5 cusecs (0.0425 cumec) discharge	Job	16,279.37	71,471.00	
	b) Above 1.5 cusecs (0.0425 cumec) capacity	Job	16,279.37	84,281.84	
27-21	Shrouding with graded pea gravel 3/8" to 1/8" (10 mm to 3mm) around tubewell bore hole.	Cu.m. Cu.ft.	1,378.15 39.05	3,136.60 88.80	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.	69.00 21.05	2,392.70 729.30	
	ii) 4" (100 mm) inner dia.	R.M. R.ft.	69.00 21.05	3,365.55 1,025.85	
	iii) 6" (150 mm) inner dia.	R.M. R.ft.	103.50 31.55	5,267.25 1,605.50	
	iv) 8" (200 mm) inner dia.	R.M. R.ft.	172.50 52.60	7,918.15 2,413.50	
27-23	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipe line ILL or equivalent 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.	93.00 28.35	575.44 175.40	
	ii) 3/4" (20 mm) inner dia.	R.M. R.ft.	93.00 28.35	745.94 227.35	
	iii) 1" (25 mm) inner dia.	R.M. R.ft.	106.65 32.50	1,009.61 307.75	
	iv) 1.25" (30 mm) inner dia.	R.M. R.ft.	106.65 32.50	1,253.74 382.15	
	v) 1.5" (40 mm) inner dia.	R.M. R.ft.	126.40 38.55	1,574.15 479.80	
	vi) 2" (50 mm) inner dia.	R.M. R.ft.	126.40 38.55	1,917.11 584.35	
	vii) 2.5" (65 mm) inner dia.	R.M. R.ft.	155.25 47.33	2,627.75 801.14	
	viii) 3" (75 mm) inner dia.	R.M. R.ft.	155.25 47.30	3,028.81 923.20	

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			Labour	Composite	
ix)	4" (100 mm) inner dia.	R.M. R.ft.	172.50 52.60	4,229.69 1,289.20	
b)	Medium duty				
i)	1/2" (15 mm) inner dia.	R.M. R.ft.	93.00 28.35	670.38 204.35	
ii)	3/4" (20 mm) inner dia.	R.M. R.ft.	93.00 28.35	809.88 246.85	
iii)	1" (25 mm) inner dia.	R.M. R.ft.	106.65 32.50	1,160.74 353.80	
iv)	1.25" (30 mm) inner dia.	R.M. R.ft.	106.65 32.50	1,439.74 438.85	
v)	1.5" (40 mm) inner dia.	R.M. R.ft.	126.40 38.55	1,667.18 508.15	
vi)	2" (50 mm) inner dia.	R.M. R.ft.	126.40 38.55	1,917.11 584.35	
vii)	2.5" (65 mm) inner dia.	R.M. R.ft.	155.25 47.30	2,854.44 870.05	
viii)	3" (75 mm) inner dia.	R.M. R.ft.	155.25 47.30	3,598.44 1,096.80	
ix)	4" (100 mm) inner dia.	R.M. R.ft.	172.50 52.60	5,070.56 1,545.55	
x)	5" (125 mm) inner dia.	R.M. R.ft.	212.65 64.80	6,838.40 2,084.35	
xi)	6" (150 mm) inner dia.	R.M. R.ft.	212.65 64.80	7,954.43 2,424.55	
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) pipe of B.S.S 1387 - 1967.				27.3.1.1 27.3.2
i)	1/2" (15 mm) inner dia.	R.M. R.ft.	107.81 32.85	829.40 252.80	
ii)	3/4" (20 mm) inner dia.	R.M. R.ft.	127.78 38.95	968.90 295.30	
iii)	1" (25 mm) inner dia.	R.M. R.ft.	143.75 43.80	1,292.45 393.95	
iv)	1.25" (30 mm) inner dia.	R.M. R.ft.	164.29 50.05	1,571.45 479.00	
v)	1.5" (40 mm) inner dia.	R.M. R.ft.	182.54 55.65	1,759.40 536.25	
vi)	2" (50 mm) inner dia.	R.M. R.ft.	202.94 61.85	2,009.30 612.45	
vii)	2.5" (65 mm) inner dia.	R.M. R.ft.	215.63 65.70	2,888.95 880.55	



Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
viii	3" (75 mm) inner dia.	R.M. R.ft.	237.93 72.50	3,632.95 1,107.35	
ix)	4" (100 mm) inner dia.	R.M. R.ft.	255.56 77.90	5,070.55 1,545.50	
x)	5" (125 mm) inner dia.	R.M. R.ft.	276.00 84.15	6,758.15 2,059.90	
xi)	6" (150 mm) inner dia.	R.M. R.ft.	289.92 88.35	7,874.15 2,400.05	
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.	168.75 51.45	744.80 227.00	
ii)	4" (100 mm) inner dia.	R.M. R.ft.	168.75 51.45	959.40 292.45	
iii)	6" (150 mm) inner dia.	R.M. R.ft.	253.15 77.15	1,494.70 455.60	
iv)	8" (200 mm) inner dia.	R.M. R.ft.	253.15 77.15	2,300.65 701.25	
v)	10" (250 mm) inner dia.	R.M. R.ft.	421.90 128.60	3,357.20 1,023.30	
vi)	12" (300 mm) inner dia.	R.M. R.ft.	421.90 128.60	4,147.85 1,264.30	
vii)	14" (350 mm) inner dia.	R.M. R.ft.	590.65 180.05	5,370.65 1,637.00	
viii)	16" (400 mm) inner dia.	R.M. R.ft.	590.65 180.05	6,668.95 2,032.70	
ix)	18" (450 mm) inner dia.	R.M. R.ft.	759.40 231.45	8,324.85 2,537.45	
x)	20" (500 mm) inner dia.	R.M. R.ft.	759.40 231.45	10,093.15 3,076.45	
xi)	24" (600 mm) inner dia.	R.M. R.ft.	843.75 257.20	13,828.85 4,215.10	
	b) Class C working pressure				
i)	3" (75 mm) inner dia.	R.M. R.ft.	168.75 51.45	713.81 217.55	
ii)	4" (100 mm) inner dia.	R.M. R.ft.	168.75 51.45	970.85 295.90	
iii)	6" (150 mm) inner dia.	R.M. R.ft.	253.15 77.15	1,646.22 501.75	
iv)	8" (200 mm) inner dia.	R.M. R.ft.	253.15 77.15	2,470.12 752.90	

Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
v)	10" (250 mm) inner dia.	R.M. R.ft.	421.90 128.60	3,515.56 1,071.55	
vi)	12" (300 mm) inner dia.	R.M. R.ft.	421.90 128.60	4,738.80 1,444.40	
vii)	14" (350 mm) inner dia.	R.M. R.ft.	590.65 180.05	7,256.48 2,211.80	
viii)	16" (400 mm) inner dia.	R.M. R.ft.	590.65 180.05	9,118.87 2,779.45	
ix)	18" (450 mm) inner dia.	R.M. R.ft.	759.40 231.45	11,222.31 3,420.60	
x)	20" (500 mm) inner dia.	R.M. R.ft.	759.40 231.45	13,217.81 4,028.85	
xi)	24" (600 mm) inner dia.	R.M. R.ft.	843.75 257.20	18,421.16 5,614.85	
c)	Class D working pressure				
i)	3" (75 mm) inner dia.	R.M. R.ft.	168.75 51.45	744.80 227.00	
ii)	4" (100 mm) inner dia.	R.M. R.ft.	168.75 51.45	1,132.65 345.25	
iii)	6" (150 mm) inner dia.	R.M. R.ft.	253.15 77.15	2,018.01 615.10	
iv)	8" (200 mm) inner dia.	R.M. R.ft.	253.15 77.15	3,384.63 1,031.65	
v)	10" (250 mm) inner dia.	R.M. R.ft.	421.90 128.60	5,055.14 1,540.80	
vi)	12" (300 mm) inner dia.	R.M. R.ft.	421.90 128.60	7,196.74 2,193.60	
vii)	14" (350 mm) inner dia.	R.M. R.ft.	590.65 180.05	10,711.51 3,264.90	
viii)	16" (400 mm) inner dia.	R.M. R.ft.	590.65 180.05	13,681.15 4,170.05	
ix)	18" (450 mm) inner dia.	R.M. R.ft.	759.40 231.45	16,525.96 5,037.15	
x)	20" (500 mm) inner dia.	R.M. R.ft.	759.40 231.45	19,996.18 6,094.90	
27-26	Providing, laying, cutting, jointing, testing and disinfecting Ductile iron pipe line in trenches including all fittings and accessories.				27.3.1.1
i)	4" (100 mm) inner dia.	R.M. R.ft.	590.65 180.05	1,738.15 529.80	27.3.2
ii)	6" (150 mm) inner dia.	R.M. R.ft.	590.65 180.05	2,598.80 792.10	
iii)	8" (200 mm) inner dia.	R.M. R.ft.	759.40 231.45	3,054.40 931.00	



Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
iv)	10" (250 mm) inner dia.	R.M. R.ft.	759.40 231.45	3,628.15 1,105.85	
v)	12" (300 mm) inner dia.	R.M. R.ft.	1,096.90 334.35	5,113.15 1,558.50	
vi)	16" (400 mm) inner dia.	R.M. R.ft.	1,096.90 334.35	6,260.65 1,908.25	
vii)	18" (450 mm) inner dia.	R.M. R.ft.	1,687.50 514.35	7,425.00 2,263.15	
viii)	20" (500 mm) inner dia.	R.M. R.ft.	1,687.50 514.35	7,998.75 2,438.05	
ix)	24" (600 mm) inner dia.	R.M. R.ft.	2,025.00 617.25	9,483.75 2,890.70	
27-27	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.				27.3.1 27.3.2
	a) Cast iron S.S. specials with spigot and socket joint				
i)	3" to 6" (75 mm to 150 mm) dia.	Kg. Lb.	69.00 31.30	258.10 117.05	
ii)	8" to 12" (200 mm to 300 mm) inner dia.	Kg. Lb.	51.75 23.45	251.30 114.00	
iii)	15" to 18" (375 mm to 450 mm) inner dia.	Kg. Lb.	34.50 15.65	243.35 110.40	
	b) Cast iron flanged specials with flanged joints				
i)	3" to 6" (75 mm to 150 mm) dia.	Kg. Lb.	34.50 15.65	251.45 114.05	
ii)	8" to 12" (200 mm to 300 mm) inner dia.	Kg. Lb.	26.50 12.00	246.90 112.00	
iii)	15" to 18" (375 mm to 450 mm) inner dia.	Kg. Lb.	17.25 7.80	240.00 108.85	
	c) Cast iron specials with tyton joints				
i)	3" to 6" (75 mm to 150 mm) dia.	Kg. Lb.	17.25 7.80	240.00 108.85	
ii)	8" to 12" (200 mm to 300 mm) inner dia.	Kg. Lb.	17.25 7.80	241.90 109.75	
iii)	15" to 18" (375 mm to 450 mm) inner dia.	Kg. Lb.	17.25 7.80	235.55 106.85	
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.				27.3.1 27.3.2
i)	3" to 6" (75 mm to 150 mm) dia.	Kg. Lb.	61.61 27.95	266.07 120.70	
ii)	8" to 18" (200 mm to 450 mm) inner dia.	Kg. Lb.	50.83 23.05	254.72 115.55	

Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
	iii) 20" to 24" (500 mm to 600 mm) inner dia.	Kg. Lb.	43.73 19.85	246.75 111.95	
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	240.00	5,750.63	
	b) 4" (100 mm) inner dia.	Each	240.00	8,906.25	
	c) 6" (150 mm) inner dia.	Each	298.88	14,068.88	
	d) 9" 225 mm inner dia.	Each	298.88	20,840.91	
	e) 12" (300 mm) inner dia.	Each	431.25	43,148.44	
	f) 15" (375 mm) inner dia.	Each	431.25	49,005.94	
	g) 18" (450 mm) inner dia.	Each	603.75	76,574.56	
	h) 21" (525 mm) inner dia.	Each	603.75	90,367.50	
	i) 24" (600 mm) inner dia.	Each	862.50	112,430.63	
	j) 27" (675 mm) inner dia.	Each	862.50	138,916.88	
	k) 30" (750 mm) inner dia.	Each	1,035.00	160,564.50	
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	240.00	5,787.94	
	b) 4" (100 mm) inner dia.	Each	240.00	8,892.56	
	c) 6" (150 mm) inner dia.	Each	298.88	11,747.44	
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	403.13	3,444.84	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	862.50	3,817.31	
	b) Double	Each	862.50	7,619.25	
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	38.82	151.41	
	b) 8" to 12" (200 mm to 300 mm) inner dia.	Per 1" dia. of pipe	33.99	138.79	
	c) 15" to 18" (375 mm to 450 mm) inner dia.	Per 1" dia. of pipe	32.71	130.86	

Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.	
			Labour	Composite		
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	101.25	231.57		
ii) 4" (100 mm) inner dia.		Each	119.82	471.26		
iii) 5" (125 mm) inner dia.		Each	133.88	703.07		
iv) 6" (150 mm) inner dia.		Each	157.53	917.04		
v) 8" (200 mm) inner dia.		Each	183.38	1,386.96		
b) Class D						
i) 1.25" (30 mm) inner dia.		Each	95.63	137.72		
ii) 1.5" (40 mm) inner dia.		Each	95.63	148.95		
iii) 2" (50 mm) inner dia.		Each	123.75	201.15		
iv) 3" (75 mm) inner dia.		Each	123.75	351.40		
v) 4" (100 mm) inner dia.		Each	168.75	652.10		
vi) 5" (125 mm) inner dia.		Each	168.75	1,192.90		
vii) 6" (150 mm) inner dia.		Each	220.50	1,608.00		
27-35	Providing and installing P.V.C. tees of Shayl or equivalent make					27.2
a) Class B						
i) 3" (75 mm) inner dia.		Each	225.00	677.70		
ii) 4" (100 mm) inner dia.		Each	225.00	1,179.00		
iii) 5" (125 mm) inner dia.		Each	315.00	1,659.60		
iv) 6" (150 mm) inner dia.		Each	315.00	2,234.05		
v) 8" (200 mm) inner dia.		Each	354.40	2,715.04		
vi) 10" (250 mm) inner dia.		Each	354.40	3,250.50		
vii) 12" (300 mm) inner dia.		Each	417.40	4,422.90		
viii) 14" (350 mm) inner dia.		Each	417.40	4,354.80		
b) Class D						
i) 1.25" (30 mm) inner dia.		Each	95.63	137.72		
ii) 1.5" (40 mm) inner dia.		Each	95.63	148.95		
iii) 2" (50 mm) inner dia.		Each	123.75	201.15		
iv) 3" (75 mm) inner dia.		Each	123.75	351.40		
v) 4" (100 mm) inner dia.		Each	168.75	652.10		
vi) 5" (125 mm) inner dia.		Each	168.75	1,192.90		
vii) 6" (150 mm) inner dia.		Each	220.50	1,608.00		



Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
27-36	Providing and installing P.V.C. bail or end plug of Shayvl or equivalent make.				27.3 27.2
	a) Class B				
	i) 3" (75 mm) inner dia.	Each	22.50	92.10	
	ii) 4" (100 mm) inner dia.	Each	22.50	111.00	
	iii) 5" (125 mm) inner dia.	Each	31.50	149.30	
	iv) 6" (150 mm) inner dia.	Each	31.50	199.70	
	v) 8" (200 mm) inner dia.	Each	36.00	358.45	
	vi) 10" (250 mm) inner dia.	Each	36.00	480.60	
	vii) 12" (300 mm) inner dia.	Each	41.65	600.35	
	viii) 14" (350 mm) inner dia.	Each	41.65	664.50	
	b) Class D				
	i) 1.25" (30 mm) inner dia.	Each	15.75	63.00	
	ii) 1.5" (40 mm) inner dia.	Each	15.75	84.00	
	iii) 2" (50 mm) inner dia.	Each	16.90	99.70	
	iv) 3" (75 mm) inner dia.	Each	16.90	183.55	
	v) 4" (100 mm) inner dia.	Each	25.90	227.95	
	vi) 5" (125 mm) inner dia.	Each	25.90	288.90	
	vii) 6" (150 mm) inner dia.	Each	32.65	359.80	
27-37	Providing and installing P.V.C. tapered core of Shayvl or equivalent make.				27.3.1.1
	a) Class B				
	i) 3" (75 mm) inner dia.	Each	96.75	181.95	
	ii) 4" (100 mm) inner dia.	Each	96.75	212.48	
	iii) 5" (125 mm) inner dia.	Each	112.50	255.85	
	iv) 6" (150 mm) inner dia.	Each	112.50	278.55	
	v) 8" (200 mm) inner dia.	Each	138.40	399.17	
	b) Class D				
	i) 1.25" (30 mm) inner dia.	Each	95.65	124.45	
	ii) 1.5" (40 mm) inner dia.	Each	95.65	141.40	
	iii) 2" (50 mm) inner dia.	Each	112.50	157.65	
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	95.65	166.15	
	b) 1.5" (40 mm) inner dia.	Each	95.65	194.40	
	c) 2" (50 mm) inner dia.	Each	112.50	248.40	



Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
	d) 3" (75 mm) inner dia.	Each	112.50	326.85	
	e) 4" (100 mm) inner dia.	Each	134.80	474.25	
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	96.75	166.60	
	b) 1.5" (40 mm) inner dia.	Each	96.75	217.45	
	c) 2" (50 mm) inner dia.	Each	112.50	310.80	
	d) 3" (75 mm) inner dia.	Each	112.50	458.20	
	e) 4" (100 mm) inner dia.	Each	136.15	610.00	
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	220.50	404.05	
	ii) 4" (100 mm) inner dia.	Each	220.50	544.75	
	iii) 5" (125 mm) inner dia.	Each	315.00	714.10	
	iv) 6" (150 mm) inner dia.	Each	315.00	904.05	
	v) 8" (200 mm) inner dia.	Each	355.50	1,253.35	
	vi) 10" (250 mm) inner dia.	Each	355.50	1,469.00	
	vii) 12" (300 mm) inner dia.	Each	416.25	1,755.70	
	viii) 14" (350 mm) inner dia.	Each	416.25	2,147.60	
	b) Class D				
	i) 1.25" (30 mm) inner dia.	Each	146.25	241.95	
	ii) 1.5" (40 mm) inner dia.	Each	146.25	338.20	
	iii) 2" (50 mm) inner dia.	Each	168.75	417.90	
	iv) 3" (75 mm) inner dia.	Each	201.52	557.75	
	v) 4" (100 mm) inner dia.	Each	257.65	896.00	
	vi) 5" (125 mm) inner dia.	Each	257.65	991.85	
	vii) 6" (150 mm) inner dia.	Each	355.50	1,186.40	
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 respects with specials and valves etc.				27.5

Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
i)	20 mm outer dia.	RM Rft	9.30 2.84	64.43 19.64	
ii)	25 mm outer dia.	RM Rft	9.30 2.84	102.49 31.25	
iii)	32 mm outer dia.	RM Rft	9.30 2.84	132.68 40.45	
iv)	40 mm outer dia.	RM Rft	9.30 2.84	204.01 62.20	
v)	50 mm outer dia.	RM Rft	9.30 2.84	258.34 78.76	
vi)	63 mm outer dia.	RM Rft	9.30 2.84	303.93 92.66	
vii)	75 mm outer dia.	RM Rft	9.30 2.84	473.02 144.21	
viii)	90 mm outer dia.	RM Rft	9.30 2.84	666.45 203.19	
ix)	110 mm outer dia.	RM Rft	9.30 2.84	952.12 290.28	
x)	125 mm outer dia.	RM Rft	11.70 3.57	1,414.40 431.22	
xi)	160 mm outer dia.	RM Rft	11.70 3.57	1,775.33 541.26	
xii)	180 mm outer dia.	RM Rft	11.70 3.57	1,793.57 546.82	
xiii)	200 mm outer dia.	RM Rft	11.70 3.57	2,703.08 824.11	
xiv)	225 mm outer dia.	RM Rft	11.70 3.57	3,452.47 1,052.58	
xv)	250 mm outer dia.	RM Rft	11.70 3.57	4,291.52 1,308.39	
xvi)	280 mm outer dia.	RM Rft	12.90 3.93	8,342.57 2,543.47	
xvii)	315 mm outer dia.	RM Rft	12.90 3.93	10,811.73 3,296.26	
xviii)	350 mm outer dia.	RM Rft	- -	- -	
xix)	400 mm outer dia.	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



Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
i)	(20mm) outer dia.	RM	9.30	95.93	
		Rft	2.84	29.25	
ii)	(25mm) outer dia.	RM	9.30	124.80	
		Rft	2.84	38.05	
iii)	(32mm) outer dia.	RM	9.30	207.49	
		Rft	2.84	63.26	
iv)	(40mm) outer dia.	RM	9.30	282.15	
		Rft	2.84	86.02	
v)	(50mm) outer dia.	RM	9.30	444.84	
		Rft	2.84	135.62	
vi)	(63mm) outer dia.	RM	9.30	689.51	
		Rft	2.84	210.22	
vii)	(75mm) outer dia.	RM	9.30	961.08	
		Rft	2.84	293.01	
viii)	(90mm) outer dia.	RM	9.30	1,391.50	
		Rft	2.84	424.24	
ix)	(110mm) outer dia.	RM	11.70	2,058.74	
		Rft	3.57	627.66	
x)	(125mm) outer dia.	RM	11.70	2,663.37	
		Rft	3.57	812.00	
xi)	(160mm) outer dia.	RM	11.70	4,107.06	
		Rft	3.57	1,252.15	
xii)	(180mm) outer dia.	RM	11.70	5,102.31	
		Rft	3.57	1,555.58	
xiii)	(200mm) outer dia.	RM	12.90	6,334.64	
		Rft	3.93	1,931.29	
xiv)	(225mm) outer dia.	RM	12.90	7,092.99	
		Rft	3.93	2,162.50	
xv)	(250mm) outer dia.	RM	12.90	9,389.82	
		Rft	3.93	2,862.75	
xvi)	(280mm) outer dia.	RM	12.90	11,643.02	
		Rft	3.93	3,549.70	
xvii)	(315mm) outer dia.	RM	14.10	15,989.45	
		Rft	4.30	4,874.83	
xviii)	(350mm) outer dia.	RM	14.10	20,175.76	
		Rft	4.30	6,151.15	
xix)	(400mm) outer dia.	RM	14.10	25,609.76	
		Rft	4.30	7,807.85	
27-44	Providing and fixing LDPE overhead tank manufactured by Master/Dura or equivalent on top of any floor				27.6
i)	300 gallons capacity	Each	1,012.50	19,251.00	
ii)	500 gallons capacity	Each	1,012.50	28,228.50	
iii)	1000 gallons capacity	Each	1,012.50	58,657.50	

Sr. No.	Description	Unit	Rate (Rs.)		Ref. Tech. Specs.
			Labour	Composite	
iv)	1200 gallons capacity	Each	1,012.50	68,580.00	
27-45	Cleaning of overhead water tank (As per capacity of water tank)	Cu.m. Cu.ft.	19.80 0.55	20.25 0.55	
27-46	Supply and fixing 1/8" thick galvanized iron sheet water tank of 500 Gallon Capacity approved design and size including covering and locking arrangement and erection in positioning excluding the cost of pillars and painting	Each	1,012.50	50,152.50	

