

Sr. No.	Description	Unit	Rate (in Rs.) 2007-2008	Rate (in Rs.) 2008-2009
1	2	3	4	5
1.	<p>XVI. M. S. PIPES LAYING</p> <p>Lowering laying in position to correct line and level including M. S. pipes with / without any outcoating on pedestals or chairs upon prepared formation. The rate to include loading, unloading hoisting, marginal cutting wherever required, assembling and tack welding, and transportation upto 500 M. etc. completed as specified.</p> <p>a) 5 mm to 8 mm thick</p> <p>i) Upto 250 mm. dia. RMT 179.00</p> <p>ii) Above 250 mm. Upto 500 mm. dia. RMT 211.00</p> <p>iii) Above 500 mm. Upto 750 mm. dia. RMT 242.00</p> <p>iv) Above 750 mm. Upto 1000 mm. dia. RMT 274.00</p> <p>v) Above 1000 mm. Upto 1250 mm. dia. RMT 306.00</p> <p>b) Above 8 mm upto 12 mm thick</p> <p>i) From 750 mm. Upto 1000 mm. dia. RMT 365.00</p> <p>ii) Above 1000 mm. Upto 1250 mm. dia. RMT 407.00</p> <p>iii) Above 1250 mm. Upto 1500 mm. dia. RMT 449.00</p> <p>iv) Above 1500 mm. Upto 1750 mm. dia. RMT 492.00</p> <p>v) Above 1750 mm. Upto 2000 mm. dia. RMT 534.00</p> <p>vi) Above 2000 mm. Upto 2250 mm. dia. RMT 576.00</p> <p>vii) Above 2250 mm. Upto 2500 mm. dia. RMT 619.00</p> <p>c) Above 12 mm upto 16 mm thick</p> <p>i) From 2000 mm. Upto 2250 mm. dia. RMT 549.00</p> <p>ii) Above 2250 mm. Upto 2500 mm. dia. RMT 592.00</p> <p>iii) Above 2500 mm. Upto 2750 mm. dia. RMT 633.00</p> <p>iv) Above 2750 mm. Upto 3000 mm. dia. RMT 674.00</p> <p>v) Above 3000 mm. Upto 3250 mm. dia. RMT 715.00</p> <p>vi) Above 3250 mm. Upto 3500 mm. dia. RMT 756.00</p> <p>d) Above 16 mm upto 20 mm thick</p> <p>i) From 2500 mm. Upto 2750 mm. dia. RMT 830.00</p> <p>ii) Above 2750 mm. Upto 3000 mm. dia. RMT 876.00</p> <p>iii) Above 3000 mm. Upto 3250 mm. dia. RMT 922.00</p> <p>iv) Above 3250 mm. Upto 3500 mm. dia. RMT 968.00</p> <p>v) Above 3500 mm. Upto 3750 mm. dia. RMT 1,014.00</p> <p>vi) Above 3750 mm. Upto 4000 mm. dia. RMT 1,060.00</p> <p>e) Above 20 mm upto 25 mm thick</p> <p>i) From 3500 mm. Upto 3750 mm. dia. RMT 1,130.00</p> <p>ii) Above 3750 mm. Upto 4000 mm. dia. RMT 1,195.00</p>			

Sr. No.	Description	Unit	Rate (in Rs.) 2007-2008	Rate (in Rs.) 2008-2009
1	2	3	4	5
2.	<p>Lowering laying in position to correct line and level including M. S. specials with / without any outcoating such as distance pieces, straps, bends, tapers, etc. on pedestals or chairs upon formation. The rate to include loading, unloading hoisting, marginal cutting wherever required, assembling and tack welding, and transportation upto 500M etc. complete.</p> <p>a) 5 mm to 8 mm thick</p> <p>i) Upto 250 mm. dia. RMT 250.00</p> <p>ii) Above 250 mm. Upto 500 mm. dia. RMT 294.00</p> <p>iii) Above 500 mm. Upto 750 mm. dia. RMT 339.00</p> <p>iv) Above 750 mm. Upto 1000 mm. dia. RMT 383.00</p> <p>v) Above 1000 mm. Upto 1250 mm. dia. RMT 428.00</p> <p>b) Above 8 mm upto 12 mm thick</p> <p>i) From 750 mm.Upto 1000 mm. dia. RMT 511.00</p> <p>ii) Above 1000 mm. Upto1250 mm. dia. RMT 570.00</p> <p>iii) Above 1250 mm. Upto 1500 mm. dia. RMT 629.00</p> <p>iv) Above 1500 mm. Upto 1750 mm. dia. RMT 688.00</p> <p>v) Above 1750 mm. Upto 2000 mm. dia. RMT 748.00</p> <p>vi) Above 2000 mm. Upto 2250 mm. dia. RMT 807.00</p> <p>vii) Above 2250 mm. Upto 2500 mm. dia. RMT 866.00</p> <p>c) Above 12 mm upto 16 mm thick</p> <p>i) From 2000 mm. Upto 2250 mm. dia. RMT 796.00</p> <p>ii) Above 2250 mm. Upto 2500 mm. dia. RMT 829.00</p> <p>iii) Above 2500 mm. Upto 2750 mm. dia. RMT 886.00</p> <p>iv) Above 2750 mm. Upto 3000 mm. dia. RMT 943.00</p> <p>v) Above 3000 mm. Upto 3250 mm. dia. RMT 1,001.00</p> <p>vi) Above 3250 mm. Upto 3500 mm. dia. RMT 1,058.00</p>			

Sr. No. 1	Description 2	Unit 3	Rate (in Rs.) 2007-2008 4	Rate (in Rs.) 2008-2009 5
	<p>d) Above 16 mm upto 20 mm thick</p> <p>i) From 2500 mm. Upto 2750 mm. dia.</p> <p>ii) Above 2750 mm. Upto 3000 mm. dia.</p> <p>iii) Above 3000 mm. Upto 3250 mm. dia.</p> <p>iv) Above 3250 mm. Upto 3500 mm. dia.</p> <p>v) Above 3500 mm. Upto 3750 mm. dia.</p> <p>vi) Above 3750 mm. Upto 4000 mm. dia.</p> <p>e) Above 20 mm upto 25 mm thick</p> <p>i) From 3500 mm. Upto 3750 mm. dia.</p> <p>ii) Above 3750 mm. Upto 4000 mm. dia.</p>	<p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p>	<p>1142.00</p> <p>1193.00</p> <p>1291.00</p> <p>1355.00</p> <p>1419.00</p> <p>1483.00</p> <p>1582.00</p> <p>1673.00</p>	
3.	<p>Lowering laying in position to correct line and level including M. S. pipes with / without any outcoating, on pedestals or chairs upon piers, trestles etc. The rate to include loading, unloading hoisting, marginal cutting wherever required, assembling and tack welding, transportaion upto 500 m. etc. complete.</p> <p>a) 5 mm to 8 mm thick</p> <p>i) Upto 250 mm. dia.</p> <p>ii) Above 250 mm. Upto 500 mm. dia.</p> <p>iii) Above 500 mm. Upto 750 mm. dia.</p> <p>iv) Above 750 mm. Upto 1000 mm. dia.</p> <p>v) Above 1000 mm. Upto 1250 mm. dia.</p> <p>b) Above 8 mm upto 12 mm thick</p> <p>i) From 750 mm.Upto 1000 mm. dia.</p> <p>ii) Above 1000 mm. Upto1250 mm. dia.</p> <p>iii) Above 1250 mm. Upto 1500 mm. dia.</p> <p>iv) Above 1500 mm. Upto 1750 mm. dia.</p> <p>v) Above 1750 mm. Upto 2000 mm. dia.</p> <p>vi) Above 2000 mm. Upto 2250 mm. dia.</p> <p>vii) Above 2250 mm. Upto 2500 mm. dia.</p>	<p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p> <p>RMT</p>	<p>214.00</p> <p>252.00</p> <p>290.00</p> <p>329.00</p> <p>367.00</p> <p>438.00</p> <p>488.00</p> <p>539.00</p> <p>590.00</p> <p>641.00</p> <p>692.00</p> <p>742.00</p>	

Sr. No.	Description	Unit	Rate (in Rs.) 2007-2008	Rate (in Rs.) 2008-2009
1	2	3	4	5
4	c) Above 12 mm upto 16 mm thick			
	i) From 2000 mm. Upto 2250 mm. dia.	RMT	632.00	
	ii) Above 2250 mm. Upto 2500 mm. dia.	RMT	662.00	
	iii) Above 2500 mm. Upto 2750 mm. dia.	RMT	759.00	
	iv) Above 2750 mm. Upto 3000 mm. dia.	RMT	809.00	
	v) Above 3000 mm. Upto 3250 mm. dia.	RMT	858.00	
	vi) Above 3250 mm. Upto 3500 mm. dia.	RMT	900.00	
	d) Above 16 mm upto 20 mm thick			
	i) From 2500 mm. Upto 2750 mm. dia.	RMT	996.00	
	ii) Above 2750 mm. Upto 3000 mm. dia.	RMT	1,051.00	
	iii) Above 3000 mm. Upto 3250 mm. dia.	RMT	1,106.00	
	iv) Above 3250 mm. Upto 3500 mm. dia.	RMT	1,161.00	
	v) Above 3500 mm. Upto 3750 mm. dia.	RMT	1,216.00	
	vi) Above 3750 mm. Upto 4000 mm. dia.	RMT	1,272.00	
	e) Above 20 mm upto 25 mm thick			
	i) From 3500 mm. Upto 3750 mm. dia.	RMT	1,356.00	
	ii) Above 3750 mm. Upto 4000 mm. dia.	RMT	1,434.00	
	Lowering and laying in position to correct line and level including M. S. specials such as distance pieces, straps, bends, tapers, etc. on pedestals or chairs upon piers or trestles. The rate to include loading, unloading hoisting, marginal cutting wherever required, assembling and tack welding, and including transportation upto 500 m. etc. complete as specified.			
	a) 5 mm to 8 mm thick			
	i) Upto 250 mm. dia.	RMT	300.00	
	ii) Above 250 mm. Upto 500 mm. dia.	RMT	353.00	
iii) Above 500 mm. Upto 750 mm. dia.	RMT	406.00		
iv) Above 750 mm. Upto 1000 mm. dia.	RMT	460.00		
v) Above 1000 mm. Upto 1250 mm. dia.	RMT	513.00		

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1	2	3	4	5
	b) Above 8 mm upto 12 mm thick			
	i) From 750 mm.Upto 1000 mm. dia.	RMT	613.00	
	ii) Above 1000 mm. Upto1250 mm. dia.	RMT	684.00	
	iii) Above 1250 mm. Upto 1500 mm. dia.	RMT	755.00	
	iv) Above 1500 mm. Upto 1750 mm. dia.	RMT	826.00	
	v) Above 1750 mm. Upto 2000 mm. dia.	RMT	898.00	
	vi) Above 2000 mm. Upto 2250 mm. dia.	RMT	969.00	
	vii) Above 2250 mm. Upto 2500 mm. dia.	RMT	1,039.00	
	c) Above 12 mm upto 16 mm thick			
	i) From 2000 mm. Upto 2250 mm. dia.	RMT	955.00	
	ii) Above 2250 mm. Upto 2500 mm. dia.	RMT	994.00	
	iii) Above 2500 mm. Upto 2750 mm. dia.	RMT	1,063.00	
	iv) Above 2750 mm. Upto 3000 mm. dia.	RMT	1,132.00	
	v) Above 3000 mm. Upto 3250 mm. dia.	RMT	1,201.00	
	vi) Above 3250 mm. Upto 3500 mm. dia.	RMT	1,270.00	
	d) Above 16 mm upto 20 mm thick			
	i) From 2500 mm. Upto 2750 mm. dia.	RMT	1,395.00	
	ii) Above 2750 mm. Upto 3000 mm. dia.	RMT	1,471.00	
	iii) Above 3000 mm. Upto 3250 mm. dia.	RMT	1,549.00	
	iv) Above 3250 mm. Upto 3500 mm. dia.	RMT	1,625.00	
	v) Above 3500 mm. Upto 3750 mm. dia.	RMT	1,703.00	
	vi) Above 3750 mm. Upto 4000 mm. dia.	RMT	1,781.00	
	e) Above 20 mm upto 25 mm thick			
	i) From 3500 mm. Upto 3750 mm. dia.	RMT	1,899.00	
	ii) Above 3750 mm. Upto 4000 mm. dia.	RMT	2,007.00	

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1	2	3	4	5
5.	<p>Transporting within 500 meters, laying in position to correct line and level M. S. pipes with / without any outcoating, on prepared bedding in trenches including marginal cutting wherever required, assembling tack welding the same. The rate to include loading, unloading, hoisting, etc. complete as specified.</p> <p>a) 5 mm to 8 mm thick</p> <p>i) Upto 250 mm. dia. RMT 184.00</p> <p>ii) Above 250 mm. Upto 500 mm. dia. RMT 216.00</p> <p>iii) Above 500 mm. Upto 750 mm. dia. RMT 248.00</p> <p>iv) Above 750 mm. Upto 1000 mm. dia. RMT 281.00</p> <p>v) Above 1000 mm. Upto 1250 mm. dia. RMT 313.00</p> <p>b) Above 8 mm upto 12 mm thick</p> <p>i) From 750 mm. Upto 1000 mm. dia. RMT 374.00</p> <p>ii) Above 1000 mm. Upto 1250 mm. dia. RMT 417.00</p> <p>iii) Above 1250 mm. Upto 1500 mm. dia. RMT 460.00</p> <p>iv) Above 1500 mm. Upto 1750 mm. dia. RMT 504.00</p> <p>v) Above 1750 mm. Upto 2000 mm. dia. RMT 547.00</p> <p>vi) Above 2000 mm. Upto 2250 mm. dia. RMT 590.00</p> <p>vii) Above 2250 mm. Upto 2500 mm. dia. RMT 633.00</p> <p>c) Above 12 mm upto 16 mm thick</p> <p>i) From 2000 mm. Upto 2250 mm. dia. RMT 582.00</p> <p>ii) Above 2250 mm. Upto 2500 mm. dia. RMT 607.00</p> <p>iii) Above 2500 mm. Upto 2750 mm. dia. RMT 649.00</p> <p>iv) Above 2750 mm. Upto 3000 mm. dia. RMT 691.00</p> <p>v) Above 3000 mm. Upto 3250 mm. dia. RMT 733.00</p> <p>vi) Above 3250 mm. Upto 3500 mm. dia. RMT 775.00</p> <p>d) Above 16 mm upto 20 mm thick</p> <p>i) From 2500 mm. Upto 2750 mm. dia. RMT 848.00</p> <p>ii) Above 2750 mm. Upto 3000 mm. dia. RMT 895.00</p> <p>iii) Above 3000 mm. Upto 3250 mm. dia. RMT 943.00</p> <p>iv) Above 3250 mm. Upto 3500 mm. dia. RMT 990.00</p> <p>v) Above 3500 mm. Upto 3750 mm. dia. RMT 1,038.00</p> <p>vi) Above 3750 mm. Upto 4000 mm. dia. RMT 1,086.00</p> <p>e) Above 20 mm upto 25 mm thick</p> <p>i) From 3500 mm. Upto 3750 mm. dia. RMT 1,155.00</p> <p>ii) Above 3750 mm. Upto 4000 mm. dia. RMT 1,222.00</p>			

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1	2	3	4	5
	vii) Above 2500 mm. Upto 2750 mm. dia.	RMT	526.00	
	viii) Above 2750 mm. Upto 3000 mm. dia.	RMT	577.00	
	ix) Above 3000 mm. Upto 3250 mm. dia.	RMT	627.00	
	x) Above 3250 mm. Upto 3500 mm. dia.	RMT	677.00	
	xi) Above 3500 mm. Upto 3750 mm. dia.	RMT	727.00	
	xii) Above 3750 mm. Upto 4000 mm. dia.	RMT	781.00	
	<p>Transporting within 500 meters and fixing in position stools, base plates, roller sets, grease box covers, etc. including welding wherever necessary. The rate also to include fixing stools, base plates, etc. in true line and level, connecting the base plate to anchor bolts by flush welding including cutting the bolts, if required, assembling and aligning C. I. or M. S. roller sets of any size including oiling, greasing, etc. The rate also to include grouting anchor bolts, welding of two halves of grease box covers as directed by Engineer-in-charge, for pipes of following dia.</p>			
	i) From 1000 mm. Upto 1250 mm. dia.	Each	826.00	
	ii) Above 1250 mm. Upto 1500 mm. dia.	Each	893.00	
	iii) Above 1500 mm. Upto 1750 mm. dia.	Each	961.00	
	iv) Above 1750 mm. Upto 2000 mm. dia.	Each	1,028.00	
	v) Above 2000 mm. Upto 2250 mm. dia.	Each	1,095.00	
	vi) Above 2250 mm. Upto 2500 mm. dia.	Each	1,163.00	
	vii) Above 2500 mm. Upto 2750 mm. dia.	Each	1,230.00	
	viii) Above 2750 mm. Upto 3000 mm. dia.	Each	1,297.00	
	ix) Above 3000 mm. Upto 3250 mm. dia.	Each	1,365.00	
	x) Above 3250 mm. Upto 3500 mm. dia.	Each	1,432.00	
	xi) Above 3500 mm. Upto 3750 mm. dia.	Each	1,512.00	
	xii) Above 3750 mm. Upto 4000 mm. dia.	Each	1,566.00	
	<p>Transporting within 500 meters and aligning, fixing in position and tack welding expansion joints suitable for pipeline of diameters.</p>			
	i) From 1000 mm. Upto 1250 mm. dia.	Each	2,794.00	
	ii) Above 1250 mm. Upto 1500 mm. dia.	Each	2,898.00	
	iii) Above 1500 mm. Upto 1750 mm. dia.	Each	3,003.00	
	iv) Above 1750 mm. Upto 2000 mm. dia.	Each	3,107.00	
	v) Above 2000 mm. Upto 2250 mm. dia.	Each	5,873.00	
	vi) Above 2250 mm. Upto 2500 mm. dia.	Each	6,004.00	
	vii) Above 2500 mm. Upto 2750 mm. dia.	Each	6,135.00	
	viii) Above 2750 mm. Upto 3000 mm. dia.	Each	6,266.00	
	ix) Above 3000 mm. Upto 3250 mm. dia.	Each	6,397.00	
	x) Above 3250 mm. Upto 3500 mm. dia.	Each	6,529.00	
	xi) Above 3500 mm. Upto 3750 mm. dia.	Each	6,659.00	
	xii) Above 3750 mm. Upto 4000 mm. dia.	Each	6,791.00	

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1	2	3	4	5
11.	Transporting within 500 meters aligning and fixing in position and tack welding only, including marginal cutting, supplying and providing rubber packing etc. where necessary. A) Minor fixtures such as manhole cover, pressure and non-pressure type blank flanges, loose rings, small pipes to form saddle bypass arrangement, plug plates, ladders, platform, stiffener rings, etc. B) Minor fixtures such as tees, domes, 'Y' branches, insulating flange ring assembly, etc.	MT	5,002.00	
12.	Gas cutting (either square cut or V cut) pipes, plates , etc. of thickness. i) Upto 5 mm. ii) Above 5 mm. Upto 10 mm. iii) Above 10 mm. Upto 14 mm. iv) Above 14 mm. Upto 18 mm. v) Above 18 mm. Upto 22 mm. vi) Above 22 mm.	RMT RMT RMT RMT RMT RMT	38.00 53.00 69.00 79.00 109.00 146.00	
13.	Gas cutting holes upto 50 mm dia (for plugs) Thickness of shell a) 5 mm. to 12 mm b) Above 12 mm	No. No.	41.00 57.00	
14.	Providing M.S. bar mesh prepared out of 16 mm dia M.S. bar at 15 cm. c/c both ways, welded to flanged ring including tack welding of bars and fixing the same with nuts and bolts on open faces of outlet/inlet pipes in the sump or reservoir, etc. complete as directed by Engineer-in-charge.	Sqm	758.00	
15.	Providing permanent test points on the pipe line as per drawing and as directed by Engineer-in-charge including providing and fixing sluice valves, road boxes for sluice valves of size 80 mm to 250 mm in one brick masonry chamber 300 mm x 300 mm clear C. M. 1:5 with 12 mm thick 1:3 cement plaster both inside and outside on M-100 c.c. 150 mm thick etc. complete as specified and directed.	No.	1,701.00	
16.	Supplying transporting, the S.P. fire hydrants including duck foot bend, S.V. and S.V. road box, painting the hydrant, fixing the saddle piece, supplying, and laying required length of C.I. pipeline and jointing the same spun yarn, molten lead including caulking, fixing the S.V. road box in one brick masonry chamber in 1:5 C.M. with 12 mm thick 1:3 cement plaster both inside and outside on 1:3:6: C.C.150 mm thick etc, complete specified and directed. [As per I.S.900/1965 Revised]	No.	8,322.00	

Sr. No.	Description	Unit	Rate (in Rs.) 2007-2008	Rate (in Rs.) 2008-2009.
1	2	3	4	5
17.	Hydraulic testing of M.S. pipeline to specified pressure including cost of all materials and labour and water for testing for the length upto 1km., using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary.			
a)	i) Upto 600 mm. dia. (I.D.)	Km.	23,680.00	
	ii) Above 600 mm. upto 750 mm. dia. (I.D.)	Km.	23,715.00	
	iii) Above 750 mm. upto 900 mm. dia. (I.D.)	Km.	23,769.00	
	iv) Above 900 mm. upto 1050 mm. dia. (I.D.)	Km.	23,851.00	
	v) Above 1050 mm. upto 1200 mm. dia. (I.D.)	Km.	23,933.00	
	vi) Above 1200 mm. upto 1500 mm. dia. (I.D.)	Km.	24,094.00	
	vii) Above 1500 mm. upto 1800 mm. dia. (I.D.)	Km.	24,331.00	
	viii) Above 1800 mm. upto 2250 mm. dia. (I.D.)	Km.	24,729.00	
	ix) Above 2250 mm. upto 2500 mm. dia. (I.D.)	Km.	25,018.00	
	x) Above 2500 mm. dia. (I.D.)	Km.	25,308.00	
	Extra work initial km			
b)	xi) Upto 600 mm dia. (I.D.)	Km.	120.00	
	xii) Above 600 mm dia. upto 750 mm dia. (I.D.)	Km.	171.00	
	ciii) Above 750 mm dia. upto 900 mm dia. (I.D.)	Km.	255.00	
	xiv) Above 900 mm dia. upto 1050 mm dia. (I.D.)	Km.	338.00	
	xv) Above 1050 mm dia. upto 1200 mm dia. (I.D.)	Km.	435.00	
	xvi) Above 1200 mm dia. upto 1500 mm dia. (I.D.)	Km	642.00	
	xvii) Above 1500 mm dia. upto 1800 mm dia. (I.D.)	Km.	971.00	
	xviii) Above 1800 mm dia. upto 2250 mm dia. (I.D.)	Km.	1,490.00	
	xix) Above 2250 mm dia. upto 2500 mm dia. (I.D.)	Km.	1,856.00	
	xx) Above 2500 mm dia. upto 2750 mm dia. (I.D.)	Km.	2,244.00	
	xxi) Above 2750 mm dia. upto 3000 mm dia. (I.D.)	Km.	2,649.00	

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1	2	3	4	5
18.	<p>Providing and applying with mechanical arrangement 1:3 proportion cement sand gunite, 40 to 50 mm thick to M. S. pipe surface under 2.1 kg. per sqcm. to 2.80 kg. per sqcm. pressure including removing the loose materials as directed by Engineer-in-charge and including scrapping the surface with wire brushes, degreasing, cleaning by compressed air and providing fixing BRC fabric no.14 as reinforcement, curing for 21 days, disposing off the rebound materials within a lead of 50 M, etc. complete as directed by Engineer-in-charge.</p>	Sqm.	264.00	
19.	<p>Providing and applying pipe coating of fibres, coaltar and solvent based rubber modified bituminous primer of density 0.92 gms/cu cm and viscosity of 1000-2000 cps @ 150 gms/sqm followed by seven layers(4mm thick) of polythene polymerised bitumen and polyester of local 7 layers) pipe cost 4 mm should conform to requirement of IS-10221 and AWWA C-203 for per-fabricated tapes including covering cost on pipe coating. Rates shall include cost of material coating and wrapping over the pipes, handling charges, preparation of pipe surface, all labour, material, etc. complete.</p> <p>Note : Pipe coating is to be done at laying work site only.</p>	Sqm.	209.00	

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1	2	3	4	5
20.	Providing and applying with mechanical arrangement cement sand gunite of 50 mm thickness to floors, walls, floor slabs or any other structure under 2.1 kg. per sqcm. to 2.80 kg. per sqcm. pressure including removing the loose materials on surface, cleaning with compressed air, degreasing, etc. including scaffolding and curing for 21 days, providing and fixing BRC fabric no. 14 but excluding cost of reinforcement, if any and removing rebound materials within a lead of 50 M, etc. complete as directed by Engineer-in-charge (for GSRs and buildings.)	Sqm.	231.00	
21.	Providing and applying with mechanical arrangement cement sand gunite of 50 mm thickness to floors, walls, roof slabs or any other structure under 2.1 kg. per sqcm. to 2.80 kg. per sqcm. pressure including removing the loose materials on surface, cleaning with compressed air, degreasing, etc. including scaffolding and curing for 21 days, providing and fixing BRC fabric no. 14 but excluding cost of reinforcement, if any and removing rebound materials within a lead of 50 M, for staging and bottom of bottom slab, etc. complete as directed by Engineer-in-charge (for RCC ESRs)	Sqm.	303.00	
22.	Providing and making inner cement mortar lining to M.S. pipes with mechanical devices in cement mortar 1:1 proportion, including cost of all materials, labour, special sand required, machinery, power generation, all equipments and taking necessary access openings and manholes, cuts at suitable intervals as directed by Engineer-in-charge and rewelding the same after done with doubler plates pipes including necessary excavation, refilling concrete breaking and remaking if any, breaking guniting and remaking the same, repainting wherever required with epoxy paint in 3 coats, all dewatering including emptying the pipeline and refilling the same after done with (water to be supplied by department free of cost within 5 km. lead at fixed point and all other arrangements to be done by agency), including carrying out "C" value performance test of pipeline, complete job as per the directions of the Engineer-in-charge.			
	i) 9 mm thick for pipes upto 700 mm dia.	Sqm.	188.00	
	ii) 12 mm thick for pipes above 700 mm dia.	Sqm.	200.00	

Sr. No.	Description	Unit	Rate (in Rs.) 2007-2008	Rate (in Rs.) 2008-2009
1	2	3	4	5
23.	Providing and applying of elastomeric (450% elongation), thermoplastic, fire retardant, coating skin tensile strength 18 to 21 kg/cm ² , antifungal antibacterial anticorrosive, graft co-polymer Coating on smooth plastered surface. 100 Micron dyufilm thickness of self bonding with plastered surface and 100 Micron of top coat. For sewage treatment plant (R. C. C. Tank inside coating) and water treatment plant.	Sqm.	739.00	
24.	Providing and applying external and internal coating for steel structures in sewage treatment plant/water treatment plant with elastomeric (450% elongation), thermoplastic, fire retardant, coating skin tensile strength 18 to 21 kg/cm ² , antifungal antibacterial, anticorrosive, graft co-polymer. 50 Micron DFT. of self bonding with steel, 50 Micron DFT. of inner coat and 50 Micron DFT of top coat.	Sqm.	432.00	
25.	Providing and applying of elastomeric (450% elongation), thermoplastic, fire retardant, coating skin tencile strength 18 to 21 kg/cm ² , antifungal, antibacterial anticorrosive, graft co-polymer coating on external pipe lines in un laid/laid condition after proper cleaning. 50 micron DFT of self bonding grade with metal surface, 50 Micron DFT of self bonding grade with metal surface, 50 Micron DFT inner coat and 50 Micron DFT of top coat.			
	1) Water and sewage pipe lines (external) in unlaidd condition.	Sqm.	452.00	
	2) Water and sewage pipe lines (external) in laidd condition.	Sqm.	464.00	
26.	Providing and applying of elastomeric (450% elongation), thermoplastic, fire retardant, coating skin tensile strength 18 to 21 Kg/cm ² , antifungal, antibacterial anticorrosive, graft co-polymer coating on internal surface of pipe lines. 100 Micron DFT of site bonding grade with steel surface and 100 Micron DFT of top coat.			
	1) Pipe line in unlaidd condition	Sqm.	569.00	
	2) Pipe line in laidd condition	Sqm.	608.00	

Sr. No.	Description	Unit	Rate (in Rs.) 2007-2008	Rate (in Rs.) 2008-2009																														
1	2	3	4	5																														
27.	<p>Providing and applying of elastomeric (450% elongation), thermo-plastic, fire retardant, coating skin tensile strength 18 to 21 kg/cm², antifungal, antibacterial anticorrosive, graft co-polymer coating on cleaned steel reinforcement bars. 80 to 100 micron DFT With self bonding trade of bar coating.</p> <p>1. 6 mm dia.</p> <p>2. 8 mm dia.</p> <p>3. 10 mm dia.</p> <p>4. 12 mm dia.</p> <p>5. 16 mm dia.</p> <p>6. 20 mm dia.</p> <p>7. 25 mm dia.</p> <p>8. 32 mm dia.</p> <p>9. 40 mm dia.</p>	<p>MT</p> <p>MT</p> <p>MT</p> <p>MT</p> <p>MT</p> <p>MT</p> <p>MT</p> <p>MT</p> <p>MT</p> <p>MT</p>	<p>20,698.00</p> <p>15,838.00</p> <p>12,550.00</p> <p>10,442.00</p> <p>7,819.00</p> <p>6,364.00</p> <p>5,026.00</p> <p>4,027.00</p> <p>3,058.00</p>																															
28.	<p>Providing and applying of HDPE coating for MS pipe internally as well as externally including cost of HDPE powder moulding pipe grade, labour, scrapping the pipe surface with wire brushes, degreasing, cleaning by compressed air and surface grinding and finishing including cost of loading, unloading and handling of pipe at factory etc. complete as directed by Engineer -in -charge.</p>																																	
	<table border="1"> <thead> <tr> <th colspan="2" data-bbox="181 1503 512 1541">HDPE coating thickness in micron</th> <th data-bbox="512 1503 699 1541">Total coating thickness in micron</th> <th data-bbox="699 1503 879 1541">Unit</th> <th data-bbox="879 1503 1038 1541">Without E. D.</th> </tr> <tr> <th data-bbox="181 1541 268 1570"></th> <th data-bbox="268 1541 512 1570">External</th> <th data-bbox="512 1541 699 1570">Internal</th> <th data-bbox="699 1541 879 1570"></th> <th data-bbox="879 1541 1038 1570"></th> </tr> </thead> <tbody> <tr> <td data-bbox="181 1570 268 1599">1.</td> <td data-bbox="268 1570 512 1599">0</td> <td data-bbox="512 1570 699 1599">2000</td> <td data-bbox="699 1570 879 1599">Sq. m</td> <td data-bbox="879 1570 1038 1599">628.00</td> </tr> <tr> <td data-bbox="181 1599 268 1628">2.</td> <td data-bbox="268 1599 512 1628">2000 micron</td> <td data-bbox="512 1599 699 1628">1000</td> <td data-bbox="699 1599 879 1628">Sq. m</td> <td data-bbox="879 1599 1038 1628">739.00</td> </tr> <tr> <td data-bbox="181 1628 268 1657">3.</td> <td data-bbox="268 1628 512 1657">3000 micron</td> <td data-bbox="512 1628 699 1657">1000</td> <td data-bbox="699 1628 879 1657">Sq. m</td> <td data-bbox="879 1628 1038 1657">941.00</td> </tr> <tr> <td data-bbox="181 1657 268 1720">4.</td> <td data-bbox="268 1657 512 1720">3000 micron</td> <td data-bbox="512 1657 699 1720">2000</td> <td data-bbox="699 1657 879 1720">Sq. m</td> <td data-bbox="879 1657 1038 1720">1153.00</td> </tr> </tbody> </table>	HDPE coating thickness in micron		Total coating thickness in micron	Unit	Without E. D.		External	Internal			1.	0	2000	Sq. m	628.00	2.	2000 micron	1000	Sq. m	739.00	3.	3000 micron	1000	Sq. m	941.00	4.	3000 micron	2000	Sq. m	1153.00			
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