

Statement Showing Comparative Data
Drinking Water Supply Schemes (Public Health)

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
		Sub Analysis					
Common Data		Lowering C.I. Pipes, A class and specials with s/s ends carefully into trench and laying them true to alignment and gradient including all sundries but excluding cost and conveyance of pipes from source of supply. (Reference to specifications. BIS No.3114/94)					
		Assumption 10 m					
		200 mm dia CI pipes 5m long (class 'A')					
		Weight = 2 x 257 kgs = 514 kgs = 5.14 quintal					
		(a) LABOUR:					
		Plumber 1 st class	day	0.102			
		Plumber 2 nd class	day	0.238			
		Man mazdoor	day	1.330			
		(b) Cost for 10 metres					
		Rate per metre = b/10					
		Rate for 1 kg = b/514					
PHE-LCIS-1	1	Lowering C.I. / D.I. Pipes (all classes) and specials (fittings) with s/s ends carefully into trenches and laying them true to alignment and gradient including all sundries but excluding cost and conveyance of pipes from source of supply (Ref to specifications. BIS No.3114/1994)					
		Note : The Labour charges for cost of Lowering & Laying per 1 kg weight shall be as per sub-analysis made for 200 mm dia CI Pipes S/s ends.					
		Details of cost for 5m					
	i	80 mm dia pipe					
		Weight of 5m length = (79 +85.5 + 92)/3 = 85.5 kgs					
		(a) Labour charges for laying	kgs	85.500			
		(b) Overheads & Contractors Profit					
		(c) Cost for 5 metres = a+b					
		Rate per metre = c/5					
	ii	100 mm dia pipe					
		Weight of 5m length = (100+109+117)/3 = 108.67 kgs					
		(a) Labour charges for laying	kgs	108.670			
		(b) Overheads & Contractors Profit					
		(c) Cost for 5 metres = a+b					
		Rate per metre = c/5					
	iii	125 mm dia pipe					
		Weight of 5m length = (130+141+153)/3 = 141.33 kgs					
		(a) Labour charges for laying	kgs	141.330			
		(b) Overheads & Contractors Profit					
		(c) Cost for 5 metres = a+b					
		Rate per metre = c/5					
	iv	150mm dia pipe					
		Weight of 5m length = (162+178+191)/3 = 177 kgs					
		(a) Labour charges for laying	kgs	177.000			
		(b) Overheads & Contractors Profit					
		(c) Cost for 5 metres = a+b					
		Rate per metre = c/5					
	v	200 mm dia pipe					
		Weight of 5m length = (237+257+278)/3 = 257.33 kgs					
		(a) Labour charges for laying	kgs	257.330			
		(b) Overheads & Contractors Profit					
		(c) Cost for 5 metres = a+b					
		Rate per metre = c/5					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
	vi	250 mm dia pipe					
		Weight of 5m length = $(319+348+376)/3 = 347.67$ kgs					
		(a) Labour charges for laying	kgs	347.670			
		(b) Overheads & Contractors Profit					
		(c) Cost for 5 metres = a+b					
		Rate per metre = c/5					
	vii	300 mm dia pipe					
		Weight of 5m length = $(412+450+487)/3 = 449.67$ kgs					
		(a) Labour charges for laying	kgs	449.670			
		(b) Overheads & Contractors Profit					
		(c) Cost for 5 metres = a+b					
		Rate per metre = c/5					
	viii	350 mm dia pipe					
		Weight of 5m length = $(519+563+610)/3=564$					
		(a) Labour charges for laying	kgs	564.000			
		(b) Overheads & Contractors Profit					
		(c) Cost for 5 metres = a+b					
		Rate per metre = c/5					
	ix	400 mm dia pipe					
		Weight of 5m length = $(631+690+744)/3=688.33$					
		(a) Labour charges for laying	kgs	688.330			
		(b) Overheads & Contractors Profit					
		(c) Cost for 5 metres = a+b					
		Rate per metre = c/5					
	x	450mm dia pipe s/s for 5m					
		Weight of 5m length = $(761+836+901)/3=832.67$					
		(a) Labour charges for laying	kgs	832.670			
		(b) Overheads & Contractors Profit					
		(c) Cost for 5 metres = a+b					
		Rate per metre = c/5					
	xi	500 mm dia pipe					
		Weight of 5m length = $(892+971+1049)/3=970.67$					
		(a) Labour charges for laying	kgs	970.670			
		(b) Overheads & Contractors Profit					
		(c) Cost for 5 metres = a+b					
		Rate per metre = c/5					
	xii	600 mm dia pipe					
		Weight of 5m length = $(1188+1296+1404)/3=1296$					
		(a) Labour charges for laying	kgs	1296.000			
		(b) Overheads & Contractors Profit					
		(c) Cost for 5 metres = a+b					
		Rate per metre = c/5					
	xiii	700mm dia pipe s/s for 5m					
		Weight of 5m length = $(1533+1675+1808)/3=1672$					
		(a) Labour charges for laying	kgs	1672.000			
		(b) Overheads & Contractors Profit					
		(c) Cost for 5 metres = a+b					
		Rate per metre = c/5					
	xiv	750 mm dia pipe					
		Weight of 5m length = $(1718+1876+2029)/3=1874.33$					
		(a) Labour charges for laying	kgs	1874.330			
		(b) Overheads & Contractors Profit					
		(c) Cost for 5 metres = a+b					
		Rate per metre = c/5					
	xv	800 mm dia pipe					
		Weight of 5m length = $(1922+2093+2263)/3=2092.67$					
		(a) Labour charges for laying	kgs	2092.670			
		(b) Overheads & Contractors Profit					
		(c) Cost for 5 metres = a+b					
		Rate per metre = c/5					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks	
	1	2	3	4	5	6	7	
PHE-LCIF-2	xvi	900 mm dia pipe						
		Weight of 5m length = $(2342+2544+2766)/3=2554$						
		(a) Labour charges for laying	kgs	2544.000				
		(b) Overheads & Contractors Profit						
		(c) Cost for 5 metres = a+b						
		Rate per metre = c/5						
	xvii	1000 mm dia pipe						
		Weight of 5m length = $(2814+3072+3318)/3=3068$						
		(a) Labour charges for laying	kgs	3068.000				
		(b) Overheads & Contractors Profit						
		(c) Cost for 5 metres = a+b						
		Rate per metre = c/5						
	2	Lowering C.I. / D.I. Pipes (all classes) and specials (fittings) with flanged ends carefully into trench and laying them true to alignment and gradient including all sundries but excluding cost and conveyance of pipes from source of supply. (Reference to specifications. BIS No.3114/1994)						
		Note : The cost of lowering and laying is taken as per sub analysis made for S/S ends.						
		Details of cost for 10m						
	i	80 mm dia pipe						
		Weight of 1m length = $19.8+(2 \times 3.7)/2.75 = 22.49$ kgs						
		(a) Labour charges for laying	kgs	22.490				
		(b) Overheads & Contractors Profit						
		Rate per metre						
	ii	100 mm dia pipe						
		Weight of 1m length = $25.4+(2 \times 4.2)/2.75 = 28.45$ kgs						
		(a) Labour charges for laying	kgs	28.450				
		(b) Overheads & Contractors Profit						
		Rate per metre						
	iii	125 mm dia pipe						
		Weight of 1m length = $33.1+(2 \times 5.3)/2.75 = 36.95$ kgs						
		(a) Labour charges for laying	kgs	36.950				
		(b) Overheads & Contractors Profit						
	Rate per metre							
iv	150mm dia pipe							
	Weight of 1m length = $41.6+(2 \times 6.7)/2.75 = 46.47$ kgs							
	(a) Labour charges for laying	kgs	46.470					
	(b) Overheads & Contractors Profit							
	Rate per metre							
v	200 mm dia pipe							
	Weight of 1m length = $60.1+(2 \times 9.3)/2.75 = 66.86$ kgs							
	(a) Labour charges for laying	kgs	66.860					
	(b) Overheads & Contractors Profit							
	Rate per metre							
vi	250 mm dia pipe							
	Weight of 1m length = $81.8+(2 \times 12)/2.75 = 90.53$ kgs							
	(a) Labour charges for laying	kgs	90.530					
	(b) Overheads & Contractors Profit							
	Rate per metre							
vii	300 mm dia pipe							
	Weight of 1m length = $106.1+(2 \times 14.8)/2.75 = 116.86$ kgs							
	(a) Labour charges for laying	kgs	116.860					
	(b) Overheads & Contractors Profit							
	Rate per metre							
viii	350 mm dia pipe							
	Weight of 1m length = $133.5+(2 \times 19)/2.75 = 147.32$ kgs							
	(a) Labour charges for laying	kgs	147.320					
	(b) Overheads & Contractors Profit							
	Rate per metre							

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
	ix	400 mm dia pipe					
		Weight of 1m length = $162.6+(2 \times 23.4)/2.75 = 179.62$ kgs					
		(a) Labour charges for laying	kgs	179.620			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	x	450mm dia pipe					
		Weight of 1m length = $197+(2 \times 26.5)/2.75 = 216.27$ kgs					
		(a) Labour charges for laying	kgs	216.270			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	xi	500 mm dia pipe					
		Weight of 1m length = $229.3+(2 \times 32.1)/2.75 = 252.65$ kgs					
		(a) Labour charges for laying	kgs	252.650			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	xii	600 mm dia pipe					
		Weight of 1m length = $306.5+(2 \times 44)/2.75 = 338.5$ kgs					
		(a) Labour charges for laying	kgs	338.500			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	xiii	700mm dia pipe s/s for 5m					
		Weight of 1m length = $394.3+(2 \times 59.9)/2.75 = 437.86$ kgs					
		(a) Labour charges for laying	kgs	437.860			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	xiv	750 mm dia pipe					
		Weight of 1m length = $443.8+(2 \times 59.7)/2.75 = 494.49$ kgs					
		(a) Labour charges for laying	kgs	494.490			
		(b) Overheads & Contractors Profit					
		Rate per metre					
PHE-LCIF-2A	2 A	Sub Analysis : (Basic Data)					
		OBSERVED DATA FOR TESTING OF 450 MM DIA PSC MAIN :					
		Pumping main to Hydraulic field test pressure including transportation of Water with minimum lead of 500 M					
		(Length = 500 Mts) taking out put / 500 Mts. Unit = 1 Rmt.					
		Labour					
		Fitters (2 x 3 days)					
		Fitters I Class	day	3.000			
		Fitters II Class	day	3.000			
		Machinery					
		Hire chargers for Hydraulic field test pressure testing including transportation of water @ Rs. 1200/- (1000+200) / day	days	3.000			
		Materials					
		Pressure guage	Nos	0.050			
		3/4" G.I. Pipe (20 mm)	RM	3.000			
		Specials	Ls				
		Dummies	No.	0.100			
		Diesel (2 Lts. / Hr) 30 Hrs.	Lts.	60.000			
		(T) Total Rate per 500 Mts.					
		(r) Rate per 1 Rmt for 450 mm dia					
		(R) Rate per 1 Rmt for 10 mm dia = $(10/450) \times r$					
		Note : Proportionate Testing Charges may be arrived, keeping the diametre of pipe based on this analysis, for an varities of pipes for various Dia Pipes.					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
PHE-JCIS-3	3	Jointing CI /DI pipes & fittings with s/s ends including cost of pig lead, hemp yarn and sundries such as cost of fuel for melting lead, filling with water with lead up to 500m and testing to required pressure complete. (Reference to specifications. BIS No.3114/94/12288:1997)					
		Details of cost for 10 joints					
	i	80 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.135			
		Plumber 2 nd class	day	0.320			
		Man mazdoor	day	1.200			
		b) Material					
		Fuel wood	q	0.190			
		Kerosene	litre	0.330			
		Spun yarn	kg	1.000			
		Pig lead	kg	20.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1%on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint =h/10					
		ii	100 mm dia pipe				
		a) Labour					
		Plumber 1 st class	day	0.220			
		Plumber 2 nd class	day	0.530			
		Man mazdoor	day	1.500			
		b) Material					
		Fuel wood	q	0.250			
		Kerosene	litre	0.330			
		Spun yarn	kg	1.800			
		Pig lead	kg	24.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
	(e) Add for water charges @ 1% on Labour & Testing Charges						
	(f) Total = d+e						
	(g) Overheads & Contractors Profit						
	(h) Cost for 10 joints (f+g)						
	Rate per joint =h/10						
	iii	125 mm dia pipe					
	a) Labour						
	Plumber 1 st class	day	0.220				
	Plumber 2 nd class	day	0.530				
	Man mazdoor	day	1.500				
	b) Material						
	Fuel wood	q	0.370				
	Kerosene	litre	0.700				
	Spun yarn	kg	2.000				
	Pig lead	kg	28.000				

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1%on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint =h/10					
	iv	150 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.270			
		Plumber 2 nd class	day	0.630			
		Man mazdoor	day	1.650			
		b) Material					
		Fuel wood	q	0.420			
		Kerosene	litre	0.760			
		Spun yarn	kg	2.000			
		Pig lead	kg	36.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1%on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint =h/10					
	v	200 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.270			
		Plumber 2 nd class	day	0.630			
		Man mazdoor	day	1.650			
		b) Material					
		Fuel wood	q	0.560			
		Kerosene	litre	0.756			
		Spun yarn	kg	3.000			
		Pig lead	kg	54.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1%on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint =h/10					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
	vi	250 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.280			
		Plumber 2 nd class	day	0.650			
		Man mazdoor	day	1.800			
		b) Material					
		Fuel wood	q	0.650			
		Kerosene	litre	1.140			
		Spun yarn	kg	3.500			
		Pig lead	kg	66.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1%on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint =h/10					
	vii	300 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.360			
		Plumber 2 nd class	day	0.840			
		Man mazdoor	day	1.800			
		b) Material					
		Fuel wood	q	0.750			
		Kerosene	litre	1.520			
		Spun yarn	kg	4.800			
		Pig lead	kg	76.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1%on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint =h/10					
	viii	350 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.400			
		Plumber 2 nd class	day	0.950			
		Man mazdoor	day	2.250			
		b) Material					
		Fuel wood	q	0.930			
		Kerosene	litre	1.700			
		Spun yarn	kg	6.000			
		Pig lead	kg	90.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1%on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint =h/10					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
	ix	400 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.310			
		Plumber 2 nd class	day	0.740			
		Man mazdoor	day	2.250			
		b) Material					
		Fuel wood	q	1.120			
		Kerosene	litre	1.700			
		Spun yarn	kg	7.500			
		Pig lead	kg	105.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1%on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint =h/10					
	x	450 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.540			
		Plumber 2 nd class	day	1.260			
		Man mazdoor	day	2.550			
		b) Material					
		Fuel wood	q	1.210			
		Kerosene	litre	2.270			
		Spun yarn	kg	9.500			
		Pig lead	kg	150.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1%on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint =h/10					
	xi	500 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.580			
		Plumber 2 nd class	day	1.370			
		Man mazdoor	day	2.700			
		b) Material					
		Fuel wood	q	1.310			
		Kerosene	litre	2.270			
		Spun yarn	kg	10.000			
		Pig lead	kg	160.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					

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	1	2	3	4	5	6	7
		(e) Add for water charges @ 1%on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint =h/10					
	xii	600 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.680			
		Plumber 2 nd class	day	1.570			
		Man mazdoor	day	3.000			
		b) Material					
		Fuel wood	q	1.680			
		Kerosene	litre	2.540			
		Spun yarn	kg	12.000			
		Pig lead	kg	205.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1%on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint =h/10					
	xiii	700 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.770			
		Plumber 2 nd class	day	1.780			
		Man mazdoor	day	3.300			
		b) Material					
		Fuel wood	q	2.100			
		Kerosene	litre	3.200			
		Spun yarn	kg	13.500			
		Pig lead	kg	240.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1%on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint =h/10					
	xiv	750 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.770			
		Plumber 2 nd class	day	1.780			
		Man mazdoor	day	3.300			
		b) Material					
		Fuel wood	q	2.400			
		Kerosene	litre	3.500			
		Spun yarn	kg	14.500			
		Pig lead	kg	270.000			

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1%on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint =h/10					
	xv	800 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.770			
		Plumber 2 nd class	day	1.780			
		Man mazdoor	day	3.300			
		b) Material					
		Fuel wood	q	2.330			
		Kerosene	litre	3.410			
		Spun yarn	kg	15.300			
		Pig lead	kg	325.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment and Labour, Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint =h/10					
PHE-JCIR-4	4	Jointing C.I., D.I. pipes and fittings with rubber gasket (push-on-joint), excluding the cost of the gasket but including all sundries filling with water, with a water lead up to 500m and testing to required pressure, etc. complete Reference to specifications IS 3114/1994/12888/1987					
		Note : Rubber Gaskets shall be added seperately.					
		Details of cost for 10 Joints					
	i	80 mm dia pipe					
		a) Labour					
		Plumber 2 nd class	day	0.300			
		Man mazdoor	day	0.800			
		b) Material					
		Rubber gasket	each	-			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					

Index-code	S No	Description	Unit	Quantity	Rate Rs.	Amt Rs.	Remarks
	1	2	3	4	5	6	7
	ii	100 mm dia pipe					
		a) Labour					
		Plumber 2 nd class	day	0.500			
		Man mazdoor	day	1.000			
		b) Material					
		Rubber gasket	each				
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	iii	125 mm dia pipe					
		a) Labour					
		Plumber 2 nd class	day	0.500			
		Man mazdoor	day	1.000			
		b) Material					
		Rubber gasket	each				
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	iv	150 mm dia pipe					
		a) Labour					
		Plumber 2 nd class	day	0.600			
		Man mazdoor	day	1.100			
		b) Material					
		Rubber gasket	each				
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
	v	200 mm dia pipe					
		a) Labour					
		Plumber 2 nd class	day	0.600			
		Man mazdoor	day	1.100			
		b) Material					
		Rubber gasket	each				
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	vi	250 mm dia pipe					
		a) Labour					
		Plumber 2 nd class	day	0.620			
		Man mazdoor	day	1.200			
		b) Material					
		Rubber gasket	each				
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	vii	300 mm dia pipe					
		a) Labour					
		Plumber 2 nd class	day	0.800			
		Man mazdoor	day	1.200			
		b) Material					
		Rubber gasket	each				
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
	viii	350 mm dia pipe					
		a) Labour					
		Plumber 2 nd class	day	0.900			
		Man mazdoor	day	1.500			
		b) Material					
		Rubber gasket	each				
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	viii	400 mm dia pipe					
		a) Labour					
		Plumber 2 nd class	day	1.000			
		Man mazdoor	day	1.500			
		b) Material					
		Rubber gasket	each				
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	ix	450 mm dia pipe					
		a) Labour					
		Plumber 2 nd class	day	1.200			
		Man mazdoor	day	1.700			
		b) Material					
		Rubber gasket	each				
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
	x	500 mm dia pipe					
		a) Labour					
		Plumber 2 nd class	day	1.300			
		Man mazdoor	day	1.800			
		b) Material					
		Rubber gasket	each				
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	xi	600 mm dia pipe					
		a) Labour					
		Plumber 2 nd class	day	1.500			
		Man mazdoor	day	2.000			
		b) Material					
		Rubber gasket	each				
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	xii	650 mm dia pipe					
		a) Labour					
		Plumber 2 nd class	day	1.600			
		Man mazdoor	day	2.100			
		b) Material					
		Rubber gasket	each				
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
	xiii	700 mm dia pipe					
		a) Labour					
		Plumber 2 nd class	day	1.700			
		Man mazdoor	day	2.200			
		b) Material					
		Rubber gasket	each				
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	xix	750 mm dia pipe					
		a) Labour					
		Plumber 2 nd class	day	1.700			
		Man mazdoor	day	2.200			
		b) Material					
		Rubber gasket	each				
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	xx	800 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	2.350			
		Plumber 2 nd class	day	4.700			
		Foreman (work inspector) Non technical	day	0.650			
		b) Material					
		Rubber gasket	each				
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					

							PHE
Index-code	S No	Description	Unit	Quantity	Rate Rs.	Amt Rs.	Remarks
	1	2	3	4	5	6	7
	xxi	900 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	2.750			
		Plumber 2 nd class	day	5.500			
		Foreman (work inspector) Non technical	day	0.700			
		b) Material					
		Rubber gasket	each				
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	xxii	1000 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	3.000			
		Plumber 2 nd class	day	6.000			
		Foreman (work inspector) Non technical	day	0.750			
		b) Material					
		Rubber gasket	each				
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	50.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
PHE-JCIF-5	5	Jointing CI pipes, fittings and valves with flanged ends including cost of jointing materials such as bolts, rubber insertion, white lead including filling with water, with lead up to 500 meters and testing to required pressure complete. (Reference to specifications. BIS No.3114/1994.)					
		Details of cost for 10 joints					
	i	80 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.090			
		Plumber 2 nd class	day	0.210			
		Man mazdoor	day	0.800			
		b) Material					
		Bolts and nuts 16mm dia 60mm long	kg	6.800			
		Rubber insertion 5mm thick	kg	2.125			
		White lead		-			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	27.500			
		(d) Total = a+b+c					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	ii	100 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.150			
		Plumber 2 nd class	day	0.350			
		Man mazdoor	day	1.000			
		b) Material					
		Bolts and nuts 16mm dia 60mm long	kg	13.600			
		Rubber insertion 5mm thick	kg	2.540			
		White lead					
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	27.500			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	iii	125 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.150			
		Plumber 2 nd class	day	0.350			
		Man mazdoor	day	1.000			
		b) Material					
		Bolts and nuts 16mm dia 60mm long	kg	13.600			
		Rubber insertion 5mm thick	kg	3.140			
		White lead					
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	27.500			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	iv	150 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.180			
		Plumber 2 nd class	day	0.420			
		Man mazdoor	day	1.100			
		b) Material					
		Bolts and nuts 20mm dia 65mm long	kg	24.000			
		Rubber insertion 5mm thick	kg	4.300			
		White lead					

Index-code	S No	Description	Unit	Quantity	Rate Rs.	Amt Rs.	PHE Remarks
	1	2	3	4	5	6	7
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	27.500			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	v	200 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.180			
		Plumber 2 nd class	day	0.420			
		Man mazdoor	day	1.100			
		b) Material					
		Bolts and nuts 20mm dia 70mm long	kg	25.200			
		Rubber insertion 5mm thick	kg	6.160			
		White lead					
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	27.500			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	vi	250 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.200			
		Plumber 2 nd class	day	0.420			
		Man mazdoor	day	1.200			
		b) Material					
		Bolts and nuts 20mm dia 75mm long	kg	39.600			
		Rubber insertion 5mm thick	kg	8.500			
		White lead					
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	27.500			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
	vii	300 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.240			
		Plumber 2 nd class	day	0.560			
		Man mazdoor	day	1.200			
		b) Material					
		Bolts and nuts 20mm dia 75mm long	kg	39.600			
		Rubber insertion 5mm thick	kg	10.280			
		White lead					
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	27.500			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	viii	350 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.300			
		Plumber 2 nd class	day	0.600			
		Man mazdoor	day	1.500			
		b) Material					
		Bolts and nuts 20mm dia 80mm long	kg	54.400			
		Rubber insertion 8mm thick	kg	21.260			
		White lead					
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	27.500			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	ix	350 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.300			
		Plumber 2 nd class	day	0.700			
		Man mazdoor	day	1.500			
		b) Material					
		Bolts and nuts 24mm dia 85mm long	kg	98.400			
		Rubber insertion 8mm thick	kg	27.640			
		White lead					
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	27.500			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	x	450 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.360			
		Plumber 2 nd class	day	0.840			

Index-code	S No	Description	Unit	Quantity	Rate Rs.	Amt Rs.	Remarks
	1	2	3	4	5	6	7
		Man mazdoor	day	1.700			
		b) Material					
		Bolts and nuts 24mm dia 85mm long	kg	123.000			
		Rubber insertion 8mm thick	kg	22.660			
		White lead					
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	27.500			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	xi	500 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.390			
		Plumber 2 nd class	day	0.910			
		Man mazdoor	day	1.800			
		b) Material					
		Bolts and nuts 24mm dia 90mm long	kg	134.000			
		Rubber insertion 8mm thick	kg	38.190			
		White lead					
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	27.500			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	xii	600 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.450			
		Plumber 2 nd class	day	1.050			
		Man mazdoor	day	2.000			
		b) Material					
		Bolts and nuts 24mm dia 90mm long	kg	192.000			
		Rubber insertion 8mm thick	kg	51.710			
		White lead					
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	27.500			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
	xiii	700 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.510			
		Plumber 2 nd class	day	1.190			
		Man mazdoor	day	2.200			
		b) Material					
		Bolts and nuts 24mm dia 90mm long	kg	244.800			
		Rubber insertion 8mm thick	kg	68.910			
		White lead					
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	27.500			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
	xiv	750 mm dia pipe					
		a) Labour					
		Plumber 1 st class	day	0.510			
		Plumber 2 nd class	day	1.190			
		Man mazdoor	day	2.200			
		b) Material					
		Bolts and nuts 24mm dia 90mm long	kg	260.400			
		Rubber insertion 8mm thick	kg	78.430			
		White lead					
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	27.500			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e+f					
		(g) Overheads & Contractors Profit					
		(h) Cost for 10 joints (f+g)					
		Rate per joint = h/10					
PHE-LRCS-6	6	Lowering the RCC S/S pipes carefully into the trenches laying them true to alignment and gradient, jointing with rubber rings and testing including filling with water with a water lead upto 500 meters including cost of rubber rings as per BIS No. 783/1985					
		Unit= 1 rmt					
		Taking out put 100 rmt					
	i	80 mm dia					
		a) Labour					
		Mason 1 st class	day	0.780			
		Mason 2 nd class	day	1.800			
		Man mazdoor	day	5.000			
		Woman mazdoor(water carrier)	day	1.300			
		b) Material					
		Rubber rings conforming BIS 5382/1985	each	50.000			

Index-code	S No	Description	Unit	Quantity	Rate Rs.	Amt Rs.	Remarks
	1	2	3	4	5	6	7
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	100.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 100 rmt (f+g)					
		Rate per rmt = h/100					
	ii	100 mm dia					
		a) Labour					
		Mason 1 st class	day	0.960			
		Mason 2 nd class	day	2.240			
		Man mazdoor	day	6.300			
		Woman mazdoor(water carrier)	day	1.600			
		b) Material					
		Rubber rings conforming BIS 5382/1985	each	50.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	100.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 100 rmt (f+g)					
		Rate per rmt = h/100					
	iii	150 mm dia					
		a) Labour					
		Mason 1 st class	day	1.170			
		Mason 2 nd class	day	2.730			
		Man mazdoor	day	7.800			
		Woman mazdoor(water carrier)	day	1.600			
		b) Material					
		Rubber rings conforming BIS 5382/1985	each	50.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	100.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 100 rmt (f+g)					
		Rate per rmt = h/100					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
	iv	200 mm dia					
		a) Labour					
		Mason 1 st class	day	1.170			
		Mason 2 nd class	day	2.730			
		Man mazdoor	day	7.800			
		Woman mazdoor(water carrier)	day	1.600			
		b) Material					
		Rubber rings conforming BIS 5382/1985	each	50.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	100.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 100 rmt (f+g)					
		Rate per rmt = h/100					
	v	225 mm dia					
		a) Labour					
		Mason 1 st class	day	1.620			
		Mason 2 nd class	day	3.780			
		Man mazdoor	day	10.500			
		Woman mazdoor(water carrier)	day	2.300			
		b) Material					
		Rubber rings conforming BIS 5382/1985	each	50.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	100.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 100 rmt (f+g)					
		Rate per rmt = h/100					
	vi	250 mm dia					
		a) Labour					
		Mason 1 st class	day	1.620			
		Mason 2 nd class	day	3.780			
		Man mazdoor	day	10.500			
		Woman mazdoor(water carrier)	day	2.300			
		b) Material					
		Rubber rings conforming BIS 5382/1985	each	50.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	100.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 100 rmt (f+g)					
		Rate per rmt = h/100					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
	vii	300 mm dia					
		a) Labour					
		Mason 1 st class	day	1.750			
		Mason 2 nd class	day	4.140			
		Man mazdoor	day	11.600			
		Woman mazdoor(water carrier)	day	2.300			
		b) Material					
		Rubber rings conforming BIS 5382/1985	each	40.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	100.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 100 rmt (f+g)					
		Rate per rmt = h/100					
	viii	350 mm dia					
		a) Labour					
		Mason 1 st class	day	1.900			
		Mason 2 nd class	day	4.500			
		Man mazdoor	day	12.700			
		Woman mazdoor(water carrier)	day	2.400			
		b) Material					
		Rubber rings conforming BIS 5382/1985	each	40.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	100.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 100 rmt (f+g)					
		Rate per rmt = h/100					
	ix	400 mm dia					
		a) Labour					
		Mason 1 st class	day	2.100			
		Mason 2 nd class	day	4.900			
		Man mazdoor	day	13.900			
		Woman mazdoor(water carrier)	day	2.900			
		b) Material					
		Rubber rings conforming BIS 5382/1985	each	40.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	100.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 100 rmt (f+g)					
		Rate per rmt = h/100					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
	x	450 mm dia					
		a) Labour					
		Mason 1 st class	day	2.250			
		Mason 2 nd class	day	5.250			
		Man mazdoor	day	15.000			
		Woman mazdoor(water carrier)	day	3.300			
		b) Material					
		Rubber rings conforming BIS 5382/1985	each	40.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	100.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 100 rmt (f+g)					
		Rate per rmt = h/100					
	xi	500 mm dia					
		a) Labour					
		Mason 1 st class	day	2.430			
		Mason 2 nd class	day	5.670			
		Man mazdoor	day	16.200			
		Woman mazdoor(water carrier)	day	3.300			
		b) Material					
		Rubber rings conforming BIS 5382/1985	each	40.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	100.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 100 rmt (f+g)					
		Rate per rmt = h/100					
	xii	600 mm dia					
		a) Labour					
		Mason 1 st class	day	2.750			
		Mason 2 nd class	day	6.450			
		Man mazdoor	day	16.300			
		Woman mazdoor(water carrier)	day	3.300			
		b) Material					
		Rubber rings conforming BIS 5382/1985	each	40.000			
		c) Testing					
		Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment, labour and Materials needed for testing (as per Sub Analysis 2 A)	rm	100.000			
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 100 rmt (f+g)					
		Rate per rmt = h/100					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks	
	1	2	3	4	5	6	7	
PHE-LJGI-7	7	Lowering and Jointing G.I. pipes and specials / fittings including excavation of trench of 0.5m width and 0.50 m depth in all soils except rock requiring blasting and refilling trenches after laying and jointing pipes and also including cost of jointing materials but excluding the cost of pipes. Reference to specifications. BIS No.783/85						
		Details of cost for 10m						
	i	15mm dia nominal bore						
		a) Labour						
		Plumber 2nd class	day	0.060				
		Man mazdoor	day	0.160				
		E.W.Excavation & refilling 10x0.50x0.50=2.50cum	cum	2.500				
		b) Material						
		G.I. pipes	m	10.000				
		white lead, hemp yarn, oil etc.	L.S.					
		c) Machinery						
		Nil						
		(d) Total = a+b+c						
		(e) Add for water charges @ 1% on Labour & Testing Charges						
		(f) Total = d+e						
		(g) Overheads & Contractors Profit						
		(h) Cost for 100 rmt (f+g)						
		Rate per rmt = h/100						
		ii	20mm dia nominal bore					
		a) Labour						
		Plumber 2nd class	day	0.060				
		Man mazdoor	day	0.160				
		E.W.Excavation & refilling 10x0.50x0.50=2.50cum	cum	2.500				
		b) Material						
		G.I. pipes	m	10.000				
		white lead, hemp yarn, oil etc.	L.S.					
		c) Machinery						
		Nil						
		(d) Total = a+b+c						
		(e) Add for water charges @ 1% on Labour & Testing Charges						
		(f) Total = d+e						
		(g) Overheads & Contractors Profit						
		(h) Cost for 100 rmt (f+g)						
		Rate per rmt = h/100						
		iii	25mm dia nominal bore					
	a) Labour							
	Plumber 2nd class	day	0.120					
	Man mazdoor	day	0.250					
	E.W.Excavation & refilling 10x0.50x0.50=2.50cum	cum	2.500					
	b) Material							
	G.I. pipes	m	10.000					
	white lead, hemp yarn, oil etc.	L.S.						
	c) Machinery							
	Nil							
	(d) Total = a+b+c							
	(e) Add for water charges @ 1% on Labour & Testing Charges							
	(f) Total = d+e							
	(g) Overheads & Contractors Profit							
	(h) Cost for 100 rmt (f+g)							
	Rate per rmt = h/100							

Index-code	S No	Description	Unit	Quantity	Rate Rs.	Amt Rs.	Remarks
	1	2	3	4	5	6	7
	iv	32mm dia nominal bore					
		a) Labour					
		Plumber 2nd class	day	0.120			
		Man mazdoor	day	0.250			
		E.W.Excavation & refilling 10x0.50x0.50=2.50cum	cum	2.500			
		b) Material					
		G.I. pipes	m	10.000			
		white lead, hemp yarn, oil etc.	L.S.				
		c) Machinery					
		Nil					
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 100 rmt (f+g)					
		Rate per rmt = h/100					
	v	40mm dia nominal bore					
		a) Labour					
		Plumber 2nd class	day	0.160			
		Man mazdoor	day	0.330			
		E.W.Excavation & refilling 10x0.50x0.50=2.50cum	cum	2.500			
		b) Material					
		G.I. pipes	m	10.000			
		white lead, hemp yarn, oil etc.	L.S.				
		c) Machinery					
		Nil					
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 100 rmt (f+g)					
		Rate per rmt = h/100					
	vi	50mm dia nominal bore					
		a) Labour					
		Plumber 2nd class	day	0.160			
		Man mazdoor	day	0.330			
		E.W.Excavation & refilling 10x0.50x0.50=2.50cum	cum	2.500			
		b) Material					
		G.I. pipes	m	10.000			
		white lead, hemp yarn, oil etc.	L.S.				
		c) Machinery					
		Nil					
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 100 rmt (f+g)					
		Rate per rmt = h/100					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
	vii	65mm dia nominal bore					
		a) Labour					
		Plumber 2nd class	day	0.250			
		Man mazdoor	day	0.660			
		E.W.Excavation & refilling 10x0.50x0.50=2.50cum	cum	2.500			
		b) Material					
		G.I. pipes	m	10.000			
		white lead, hemp yarn, oil etc.	L.S.				
		c) Machinery					
		Nil					
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 100 rmt (f+g)					
		Rate per rmt = h/100					
	viii	80mm dia nominal bore					
		a) Labour					
		Plumber 2nd class	day	0.250			
		Man mazdoor	day	0.660			
		E.W.Excavation & refilling 10x0.50x0.50=2.50cum	cum	2.500			
		b) Material					
		G.I. pipes	m	10.000			
		white lead, hemp yarn, oil etc.	L.S.				
		c) Machinery					
		Nil					
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 100 rmt (f+g)					
		Rate per rmt = h/100					
	ix	100mm dia nominal bore					
		a) Labour					
		Plumber 2nd class	day	0.370			
		Man mazdoor	day	0.970			
		E.W.Excavation & refilling 10x0.50x0.50=2.50cum	cum	2.500			
		b) Material					
		G.I. pipes	m	10.000			
		white lead, hemp yarn, oil etc.	L.S.				
		c) Machinery					
		Nil					
		(d) Total = a+b+c					
		(e) Add for water charges @ 1% on Labour & Testing Charges					
		(f) Total = d+e					
		(g) Overheads & Contractors Profit					
		(h) Cost for 100 rmt (f+g)					
		Rate per rmt = h/100					
	x	150mm dia nominal bore					
		a) Labour					
		Plumber 2nd class	day	0.580			
		Man mazdoor	day	1.540			
		E.W.Excavation & refilling 10x0.50x0.50=2.50cum	cum	2.500			
		b) Material					
		G.I. pipes	m	10.000			
		white lead, hemp yarn, oil etc.	L.S.				
		c) Machinery					
		Nil					
		(d) Total = a+b+c					

							PHE	
Index-code	S No	Description	Unit	Quantity	Rate Rs.	Amt Rs.	Remarks	
	1	2	3	4	5	6	7	
PHE-GIDM-8		(e) Add for water charges @ 1% on Labour & Testing Charges						
		(f) Total = d+e						
		(g) Overheads & Contractors Profit						
		(h) Cost for 100 rmt (f+g)						
		Rate per rmt = h/100						
		8	Making connection of G.I. distribution branch with G.I. main by providing and fixing tee, including cutting and threading the pipes and fixing tee etc., complete. Reference to specifications. BIS No.783/85					
			Details of cost for 1 No					
		i	25mm branch from 40mm nominal dia main					
			a) Labour					
			Plumber 2nd class	day	0.330			
			Man mazdoor	day	0.330			
			b) Material					
			G.I. tee 25mm dia.	Each	1.000			
			G.I. Jam nut 25mm	Each	1.000			
			Sundries					
			c) Machinery					
			Nil					
			(d) Total = a+b+c					
			(e) Add for water charges @ 1% on Labour & Testing Charges					
			(f) Total = d+e					
			(g) Overheads & Contractors Profit					
			Rate per 1No (f+g)					
		ii	50 mm branch from 80 mm nominal dia main					
			a) Labour					
			Plumber 2nd class	day	0.450			
		Man mazdoor	day	0.450				
		b) Material						
		G.I. tee 50mm dia.	Each	1.000				
		G.I. Jam nut 50mm	Each	1.000				
		Sundries						
		c) Machinery						
		Nil						
		(d) Total = a+b+c						
		(e) Add for water charges @ 1% on Labour & Testing Charges						
		(f) Total = d+e						
		(g) Overheads & Contractors Profit						
		Rate per 1No (f+g)						
	iii	100mm branch from 150mm nominal dia main						
		a) Labour						
		Plumber 2nd class	day	0.450				
		Man mazdoor	day	0.450				
		b) Material						
		G.I. tee 150mm dia.	Each	1.000				
		G.I. Jam nut 150mm	Each	1.000				
		Sundries						
		c) Machinery						
		Nil						
		(d) Total = a+b+c						
		(e) Add for water charges @ 1% on Labour & Testing Charges						
		(f) Total = d+e						
		(g) Overheads & Contractors Profit						
		Rate per 1No (f+g)						

							PHE
Index-code	S No	Description	Unit	Quantity	Rate Rs.	Amt Rs.	Remarks
	1	2	3	4	5	6	7
PHE-LACP-9	9	Lowering and laying AC pressure pipes (class 5 & 10) in ready made trenches true to alignment and gradient including all sundries but excluding conveyance from source of supply. Reference to specifications BIS 6530/72					
		Details of cost for 1rmt					
		Note : The Coat of lowring, laying is taken for 1 kg weight as per sub-analysis made for CI SS ends.					
	A	Class 10 & 15 pipes :					
	i	80 mm dia pipe					
		Weight of 1m length = $(6.225+6.225)/2 = 6.225$ kgs					
		(a) Labour charges for laying	kgs	6.225			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	ii	100 mm dia pipe					
		Weight of 1m length = $(7.8+8.18)/2 = 7.99$ kgs					
		(a) Labour charges for laying	kgs	7.990			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	iii	125 mm dia pipe					
		Weight of 1m length = $(9.8+10.725)/2 = 10.262$ kgs					
		(a) Labour charges for laying	kgs	10.262			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	iv	150 mm dia pipe					
		Weight of 1m length = $(12.15+15.18)/2 = 13.665$ kgs					
		(a) Labour charges for laying	kgs	13.665			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	v	200 mm dia pipe					
		Weight of 1m length = $(19.1+25.3)/2 = 22.2$ kgs					
		(a) Labour charges for laying	kgs	22.200			
	(b) Overheads & Contractors Profit						
	Rate per metre						
vi	250 mm dia pipe						
	Weight of 1m length = $(24.9+32)/2 = 28.450$ kgs						
	(a) Labour charges for laying	kgs	28.450				
	(b) Overheads & Contractors Profit						
	Rate per metre						
vii	300 mm dia pipe						
	Weight of 1m length = $(32.2+44.925)/2 = 38.562$ kgs						
	(a) Labour charges for laying	kgs	38.562				
	(b) Overheads & Contractors Profit						
	Rate per metre						
viii	350 mm dia pipe						
	Weight of 1m length = $(13.6+54.875)/2 = 47.237$ kgs						
	(a) Labour charges for laying	kgs	47.237				
	(b) Overheads & Contractors Profit						
	Rate per metre						
ix	400 mm dia pipe						
	Weight of 1m length = $(49.125+71.425)/2 = 60.275$ kgs						
	(a) Labour charges for laying	kgs	60.275				
	(b) Overheads & Contractors Profit						
	Rate per metre						
x	450 mm dia pipe						
	Weight of 1m length = $(59.225+84.025)/2 = 71.625$ kgs						
	(a) Labour charges for laying	kgs	71.625				
	(b) Overheads & Contractors Profit						
	Rate per metre						

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
	xi	500 mm dia pipe					
		Weight of 1m length = $(73.2+104.25)/2 = 88.725$ kgs					
		(a) Labour charges for laying	kgs	88.725			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	xii	600 mm dia pipe					
		Weight of 1m length = $(102.5+148.025)/2 = 125.262$ kgs					
		(a) Labour charges for laying	kgs	125.262			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	B	Class 20 & 25 pipes :					
	i	80 mm dia pipe					
		Weight of 1m length = $(6.23+8.525)/2 = 7.378$ kgs					
		(a) Labour charges for laying	kgs	7.378			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	ii	100 mm dia pipe					
		Weight of 1m length = $(10.35+12.825)/2 = 11.587$ kgs					
		(a) Labour charges for laying	kgs	11.587			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	iii	125 mm dia pipe					
		Weight of 1m length = $(13.35+16.825)/2 = 15.087$ kgs					
		(a) Labour charges for laying	kgs	15.087			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	iv	150 mm dia pipe					
		Weight of 1m length = $(18.9+23.65)/2 = 21.275$ kgs					
		(a) Labour charges for laying	kgs	21.275			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	v	200 mm dia pipe					
		Weight of 1m length = $(32.1+40.75)/2 = 36.425$ kgs					
		(a) Labour charges for laying	kgs	36.425			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	vi	250 mm dia pipe					
		Weight of 1m length = $(41.175+51.65)/2 = 46.412$ kgs					
		(a) Labour charges for laying	kgs	46.412			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	vii	300 mm dia pipe					
		Weight of 1m length = $(58.1+74.05)/2 = 66.075$ kgs					
		(a) Labour charges for laying	kgs	66.075			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	viii	350 mm dia pipe					
		Weight of 1m length = $(71.275+81.55)/2 = 76.412$ kgs					
		(a) Labour charges for laying	kgs	76.412			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	ix	400 mm dia pipe					
		Weight of 1m length = $(93.05+115.4)/2 = 104.225$ kgs					
		(a) Labour charges for laying	kgs	104.225			
		(b) Overheads & Contractors Profit					
		Rate per metre					
	x	450 mm dia pipe					
		Weight of 1m length = $(111.275+139.45)/2 = 125.36$ kgs					
		(a) Labour charges for laying	kgs	125.360			
		(b) Overheads & Contractors Profit					
		Rate per metre					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks	
	1	2	3	4	5	6	7	
PHE-JACP-10	xi	500 mm dia pipe						
		Weight of 1m length = (136.325+171.275)/2 = 153.8 kgs						
		(a) Labour charges for laying	kgs	153.800				
		(b) Overheads & Contractors Profit						
		Rate per metre						
	xii	600 mm dia pipe						
		Weight of 1m length = (192.925+245.9)/2 = 219.412 kgs						
		(a) Labour charges for laying	kgs	219.412				
		(b) Overheads & Contractors Profit						
		Rate per metre						
		10	Jointing A.C. pressure pipes with A.C. coupling or C.I. detachable joints complete with rubber rings including filling with water, with a water lead up to 500m and testing to required pressure etc., complete but excluding cost of jointing materials and conveyance of pipe from source of supply. Reference to specifications BIS No.6530/72 (Labour Charges Only)					
			Detail of cost for 10 joints					
			Sub Analysis : For Machinery used for testing					
			OBSERVED DATA FOR TESTING OF 450 MM DIA PSC MAIN : Pumping main to Hydraulic field test pressure including transportation of Water with minimum lead of 500 M					
			(Length = 500 Mts) taking out put / 500 Mts. Unit = 1 Rmt.					
			Machinery					
			Hire chargers for Hydralic field test pressure testing including transportation of water @ Rs. 1200/- (1000+200) / day	days	3			
			Materials					
			Pressure guage	Nos	0.05			
			3/4" G.I. Pipe	Mts	3			
		Specials	Ls					
		Dummies	No.	0.1				
		Diesel (2 Lts. / Hr) 30 Hrs.	Lts.	60				
		(T) Total Rate per 500 Mts.						
		(r) Rate per 1 Rmt for 450 mm dia						
		(R) Rate per 1 Rmt for 10 mm dia = (10/450) x r						
	i	80 mm dia meter pipe						
		(a) Labour						
		Plumber 1 st class	day	0.180				
		Plumber 2 nd class	day	0.420				
		Man mazdoor	day	1.600				
		Total						
		(b) Machinery for Testing of Pipelines with required pressure as per relevant IS Specification including hire charges of testing equipment, labour and transportation of water upto 500 M lead Materials needed for testing (as per Sub Analysis 11 A)	rm	40.000				
		(c) Add for water charges @ 1% on Labour & Testing Charges						
		(d) Total = a+b+c						
		(e) Overheads & Contractors Profit						
		(f) Cost for 10 joints = d+e						
		Rate per each joint = f/10						

Index-code	S No	Description	Unit	Quantity	Rate Rs.	Amt Rs.	Remarks
	1	2	3	4	5	6	7
	ii	100 mm dia meter pipe					
		(a) Labour					
		Plumber 1 st class	day	0.300			
		Plumber 2 nd class	day	0.700			
		Man mazdoor	day	2.000			
		Total					
		(b) Machinery for Testing of Pipelines with required pressure as per relevant IS Specification including hire charges of testing equipment, labour and transportation of water upto 500 M lead Materials needed for testing (as per Sub Analysis 11 A)	rm	40.000			
		(c) Add for water charges @ 1% on Labour & Testing Charges					
		(d) Total = a+b+c					
		(e) Overheads & Contractors Profit					
		(f) Cost for 10 joints = d+e					
		Rate per each joint = f/10					
	iii	125 mm dia meter pipe					
		(a) Labour					
		Plumber 1 st class	day	0.300			
		Plumber 2 nd class	day	0.700			
		Man mazdoor	day	2.000			
		Total					
		(b) Machinery for Testing of Pipelines with required pressure as per relevant IS Specification including hire charges of testing equipment, labour and transportation of water upto 500 M lead Materials needed for testing (as per Sub Analysis 11 A)	rm	40.000			
		(c) Add for water charges @ 1% on Labour & Testing Charges					
		(d) Total = a+b+c					
		(e) Overheads & Contractors Profit					
		(f) Cost for 10 joints = d+e					
		Rate per each joint = f/10					
	iv	150 mm dia meter pipe					
		(a) Labour					
		Plumber 1 st class	day	0.360			
		Plumber 2 nd class	day	0.840			
		Man mazdoor	day	2.200			
		Total					
		(b) Machinery for Testing of Pipelines with required pressure as per relevant IS Specification including hire charges of testing equipment, labour and transportation of water upto 500 M lead Materials needed for testing (as per Sub Analysis 11 A)	rm	40.000			
		(c) Add for water charges @ 1% on Labour & Testing Charges					
		(d) Total = a+b+c					
		(e) Overheads & Contractors Profit					
		(f) Cost for 10 joints = d+e					
		Rate per each joint = f/10					
	v	200 mm dia meter pipe					
		(a) Labour					
		Plumber 1 st class	day	0.360			
		Plumber 2 nd class	day	0.840			
		Man mazdoor	day	2.200			
		Total					
		(b) Machinery for Testing of Pipelines with required pressure as per relevant IS Specification including hire charges of testing equipment, labour and transportation of water upto 500 M lead Materials needed for testing (as per Sub Analysis 11 A)	rm	40.000			

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
		(c) Add for water charges @ 1% on Labour & Testing Charges					
		(d) Total = a+b+c					
		(e) Overheads & Contractors Profit					
		(f) Cost for 10 joints = d+e					
		Rate per each joint = f/10					
	vi	250 mm dia meter pipe					
		(a) Labour					
		Plumber 1 st class	day	0.480			
		Plumber 2 nd class	day	1.120			
		Man mazdoor	day	2.600			
		Total					
		(b) Machinery for Testing of Pipelines with required pressure as per relevant IS Specification including hire charges of testing equipment, labour and transportation of water upto 500 M lead Materials needed for testing (as per Sub Analysis 11 A)	rm	40.000			
		(c) Add for water charges @ 1% on Labour & Testing Charges					
		(d) Total = a+b+c					
		(e) Overheads & Contractors Profit					
		(f) Cost for 10 joints = d+e					
		Rate per each joint = f/10					
	vii	300 mm dia meter pipe					
		(a) Labour					
		Plumber 1 st class	day	0.480			
		Plumber 2 nd class	day	1.120			
		Man mazdoor	day	2.600			
		Total					
		(b) Machinery for Testing of Pipelines with required pressure as per relevant IS Specification including hire charges of testing equipment, labour and transportation of water upto 500 M lead Materials needed for testing (as per Sub Analysis 11 A)	rm	40.000			
		(c) Add for water charges @ 1% on Labour & Testing Charges					
		(d) Total = a+b+c					
		(e) Overheads & Contractors Profit					
		(f) Cost for 10 joints = d+e					
		Rate per each joint = f/10					
	viii	350 mm dia meter pipe					
		(a) Labour					
		Plumber 1 st class	day	0.600			
		Plumber 2 nd class	day	1.400			
		Man mazdoor	day	3.000			
		Total					
		(b) Machinery for Testing of Pipelines with required pressure as per relevant IS Specification including hire charges of testing equipment, labour and transportation of water upto 500 M lead Materials needed for testing (as per Sub Analysis 11 A)	rm	40.000			
		(c) Add for water charges @ 1% on Labour & Testing Charges					
		(d) Total = a+b+c					
		(e) Overheads & Contractors Profit					
		(f) Cost for 10 joints = d+e					
		Rate per each joint = f/10					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
	ix	400 mm dia meter pipe					
		(a) Labour					
		Plumber 1 st class	day	0.600			
		Plumber 2 nd class	day	1.400			
		Man mazdoor	day	3.000			
		Total					
		(b) Machinery for Testing of Pipelines with required pressure as per relevant IS Specification including hire charges of testing equipment and transportation of water upto 500 M lead Materials needed for testing (as per Sub Analysis 11 A)	rm	40.000			
		(c) Add for water charges @ 1% on Labour & Testing Charges					
		(d) Total = a+b+c					
		(e) Overheads & Contractors Profit					
		(f) Cost for 10 joints = d+e					
		Rate per each joint = f/10					
	x	450 mm dia meter pipe					
		(a) Labour					
		Plumber 1 st class	day	0.720			
		Plumber 2 nd class	day	1.680			
		Man mazdoor	day	3.400			
		Total					
		(b) Machinery for Testing of Pipelines with required pressure as per relevant IS Specification including hire charges of testing equipment and transportation of water upto 500 M lead Materials needed for testing (as per Sub Analysis 11 A)	rm	40.000			
		(c) Add for water charges @ 1% on Labour & Testing Charges					
		(d) Total = a+b+c					
		(e) Overheads & Contractors Profit					
		(f) Cost for 10 joints = d+e					
		Rate per each joint = f/10					
	xi	500 mm dia meter pipe					
		(a) Labour					
		Plumber 1 st class	day	0.720			
		Plumber 2 nd class	day	1.680			
		Man mazdoor	day	3.400			
		Total					
		(b) Machinery for Testing of Pipelines with required pressure as per relevant IS Specification including hire charges of testing equipment and transportation of water upto 500 M lead Materials needed for testing (as per Sub Analysis 11 A)	rm	40.000			
		(c) Add for water charges @ 1% on Labour & Testing Charges					
		(d) Total = a+b+c					
		(e) Overheads & Contractors Profit					
		(f) Cost for 10 joints = d+e					
		Rate per each joint = f/10					
	xii	600 mm dia meter pipe					
		(a) Labour					
		Plumber 1 st class	day	0.840			
		Plumber 2 nd class	day	1.960			
		Man mazdoor	day	3.800			
		Total					
		(b) Machinery for Testing of Pipelines with required pressure as per relevant IS Specification including hire charges of testing equipment and transportation of water upto 500 M lead Materials needed for testing (as per Sub Analysis 11 A)	rm	40.000			

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
PHE-LJUP-11		(c) Add for water charges @ 1% on Labour & Testing Charges					
		(d) Total = a+b+c					
		(e) Overheads & Contractors Profit					
		(f) Cost for 10 joints = d+e					
		Rate per each joint = f/10					
	11	Lowering, laying, jointing and testing to hydraulic test pressure including cost of water with minimum water lead of 500m for UPVC pressure pipes in ready made trenches true to alignment and gradient including all sundries but excluding cost & conveyance of pipes from source of supply and jointing materials as per BIS No. 7634 - Part III - 1975					
		Sub Analysis for 160 mm Dia :					
		Taking output : Length - 500 m ; Joints - 83 Nos					
		(a) Labour					
		For lowering / sub surface transport					
		Mazdoor	day	7.000			
	Jointing						
	Fitter	day	2.000				
	Mazdoor	day	4.000				
	Testing						
	Testing of Pipelines with required pressure as per relevant IS Specification including filling with water with a water lead upto 500 M, including hire charges of testing equipment and labour, Materials needed for testing (as per Sub Analysis 2 A)	rm	500.000				
	Total						
	(b) Material						
	Add for Water charges at 1% on Labour & Testing	Lt					
	(c) Overheads & Contractors Profit						
	(d) Total (a+b+c)						
	Rate per RM =d/500						
	Rate per 10 mm / 1rm						
	A All Classes pipes :						
	i 63 mm dia pipe						
	Weight of 1m length = (0.468+0.666+1.01)/3 =0.715 kgs						
	(a) Labour charges for laying, jointing & testing	rm	6.300				
	(b) Overheads & Contractors Profit						
	Rate per metre a+b						
	ii 75 mm dia pipe						
	Weight of 1m length = (0.655+0.923+1.439)/3 =1.005 kgs						
	(a) Labour charges for laying, jointing & testing	rm	7.500				
	(b) Overheads & Contractors Profit						
	Rate per metre a+b						
	iii 90 mm dia pipe						
	Weight of 1m length = (0.924+1.321+2.032)/3 =1.426 kgs						
	(a) Labour charges for laying, jointing & testing	rm	9.000				
	(b) Overheads & Contractors Profit						
	Rate per metre a+b						
	iv 110 mm dia pipe						
	Weight of 1m length = (1.323+1.902+3.062)/3 =2.096 kgs						
	(a) Labour charges for laying, jointing & testing	rm	11.000				
	(b) Overheads & Contractors Profit						
	Rate per metre a+b						
	v 125 mm dia pipe						
	Weight of 1m length = (1.722+2.511+3.929)/3 =2.72 kgs						
	(a) Labour charges for laying, jointing & testing	rm	12.500				
	(b) Overheads & Contractors Profit						
	Rate per metre a+b						

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE
							Remarks
	1	2	3	4	5	6	7
	vi	140 mm dia pipe					
		Weight of 1m length = $(2.144+3.116+4.905)/3 = 3.388$ kgs					
		(a) Labour charges for laying, jointing & testing	rm	14.000			
		(b) Overheads & Contractors Profit					
		Rate per metre a+b					
	vii	160 mm dia pipe					
		Weight of 1m length = $(2.799+4.012+6.414)/3 = 4.408$ kgs					
		(a) Labour charges for laying, jointing & testing	rm	16.000			
		(b) Overheads & Contractors Profit					
		Rate per metre a+b					
	viii	180 mm dia pipe					
		Weight of 1m length = $(3.581+5.134+8.092)/3 = 5.602$ kgs					
		(a) Labour charges for laying, jointing & testing	rm	18.000			
		(b) Overheads & Contractors Profit					
		Rate per metre a+b					
	ix	200 mm dia pipe					
		Weight of 1m length = $(4.331+6.351+10.001)/3 = 6.894$ kgs					
		(a) Labour charges for laying, jointing & testing	rm	20.000			
		(b) Overheads & Contractors Profit					
		Rate per metre a+b					
	x	225 mm dia pipe					
		Weight of 1m length = $(5.511+7.975+12.675)/3 = 8.72$ kgs					
		(a) Labour charges for laying, jointing & testing	rm	22.500			
		(b) Overheads & Contractors Profit					
		Rate per metre a+b					
	xi	250 mm dia pipe					
		Weight of 1m length = $(6.674+9.886+15.666)/3 = 10.742$ kgs					
		(a) Labour charges for laying, jointing & testing	rm	25.000			
		(b) Overheads & Contractors Profit					
		Rate per metre a+b					
	xii	280 mm dia pipe					
		Weight of 1m length = $(8.453+12.404+19.616)/3 = 13.491$ kgs					
		(a) Labour charges for laying, jointing & testing	rm	28.000			
		(b) Overheads & Contractors Profit					
		Rate per metre a+b					
	xiii	315 mm dia pipe					
		Weight of 1m length = $(10.682+15.723+24.732)/3 = 17.046$ kgs					
		(a) Labour charges for laying, jointing & testing	rm	31.500			
		(b) Overheads & Contractors Profit					
		Rate per metre a+b					
PHE-LJHE-12	12	Laying and jointing of HDPE pipes by butt fusion welding as per IS:7634 – part-II/1975 as amended from time to time to the alignment and gradient and testing the pipeline to the required pressure.					
		Note : Specialized labour is needed for execution of laying & jointing for HDPE Pipes with buttfusion welding technique as per IS Specification.					
	i	63 mm Dia					
		Taking output : Length - 480 m ; Joints - 40 Nos					
		(a) Labour					
		For lowering / sub surface transport					
		Mazdoor	day	4.000			
		Jointing					
		Fitter	day	1.000			
		Mazdoor	day	2.000			
	Testing						
	Fitter	day	1.000				
	Mazdoor	day	2.000				
	Supervisor	day	1.000				
	Total						

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
		(b) Machinery					
		Hirecharges of Generator Set & Hydraulic Testing Equipment	day	1.000			
		(c) Material					
		Kerosene	Lt	4.000			
		Diesel	Lt	8.000			
		Water for Testing	Lt				
		Transport	day	1.000			
		Overheads & Contractors Profit					
		(d) Total (a+b+c)					
		Rate per RM =d/480					
	ii	75 mm Dia					
		Taking output : Length - 456 m ; Joints - 38 Nos					
		(a) Labour					
		For lowering / sub surface transport					
		Mazdoor	day	4.000			
		Jointing					
		Fitter	day	1.000			
		Mazdoor	day	2.000			
		Testing					
		Fitter	day	1.000			
		Mazdoor	day	2.000			
		Supervisor	day	1.000			
		Total					
		(b) Machinery					
		Hire charges of Generator Set & Hydraulic testing equipment	day	1.000			
		(c) Material					
		Kerosene	Lt	4.000			
		Diesel	Lt	8.000			
		Water for Testing	Lt				
		Transport	day	1.000			
		Overheads & Contractors Profit					
		(d) Total (a+b+c)					
		Rate per RM =d/456					
	iii	90 mm Dia					
		Taking output : Length - 432 m ; Joints - 36 Nos					
		(a) Labour					
		For lowering / sub surface transport					
		Mazdoor	day	5.000			
		Jointing					
		Fitter	day	1.000			
		Mazdoor	day	2.000			
		Testing					
		Fitter	day	1.000			
		Mazdoor	day	2.000			
		Supervisor	day	1.000			
		Total					
		(b) Machinery					
		Hire charges of Generator Set & Hydraulic testing equipment	day	1.000			
		(c) Material					
		Kerosene	Lt	5.000			
		Diesel	Lt	8.000			
		Water for Testing	Lt				
		Transport	day	1.000			
		Overheads & Contractors Profit					
		(d) Total (a+b+c)					
		Rate per RM =d/432					
	iv	110 mm Dia					
		Taking output : Length - 384 m ; Joints - 32 Nos					
		(a) Labour					
		For lowering / sub surface transport					
		Mazdoor	day	6.000			
		Jointing					
		Fitter	day	1.000			
		Mazdoor	day	2.000			

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
		Testing					
		Fitter	day	1.000			
		Mazdoor	day	2.000			
		Supervisor	day	1.000			
		Total					
		(b) Machinery					
		Hirecharges of Generator Set & Hydraulic Testing Equipment	day	1.000			
		(c) Material					
		Kerosene	Lt	6.000			
		Diesel	Lt	8.000			
		Water for Testing	Lt				
		Transport	day	1.000			
		Overheads & Contractors Profit					
		(d) Total (a+b+c)					
		Rate per RM =d/384					
	v	125 mm Dia					
		Taking output : Length - 348 m ; Joints - 29 Nos					
		(a) Labour					
		For lowering / sub surface transport					
		Mazdoor	day	7.000			
		Jointing					
		Fitter	day	2.000			
		Mazdoor	day	3.000			
		Testing					
		Fitter	day	1.000			
		Mazdoor	day	2.000			
		Supervisor	day	1.000			
		Total					
		(b) Machinery					
		Hire charges of Generator Set & Hydraulic testing equipment	day	1.000			
		(c) Material					
		Kerosene	Lt	7.000			
		Diesel	Lt	8.000			
		Water for Testing	Lt				
		Transport	day	1.000			
		Overheads & Contractors Profit					
		(d) Total (a+b+c)					
		Rate per RM =d/348					
	vi	140 mm Dia					
		Taking output : Length - 300 m ; Joints - 25 Nos					
		(a) Labour					
		For lowering / sub surface transport					
		Mazdoor	day	7.000			
		Jointing					
		Fitter	day	2.000			
		Mazdoor	day	3.000			
		Testing					
		Fitter	day	1.000			
		Mazdoor	day	2.000			
		Supervisor	day	1.000			
		Total					
		(b) Machinery					
		Hire charges of Generator Set & Hydraulic testing equipment	day	1.000			
		(c) Material					
		Kerosene	Lt	8.000			
		Diesel	Lt	8.000			
		Water for Testing	Lt				
		Transport	day	1.000			
		Overheads & Contractors Profit					
		(d) Total (a+b+c)					
		Rate per RM =d/300					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
	vii	160 mm Dia					
		Taking output : Length - 303 m ; Joints - 25 Nos					
		(a) Labour					
		For lowering / sub surface transport					
		Mazdoor	day	7.000			
		Jointing					
		Fitter	day	2.000			
		Mazdoor	day	4.000			
		Testing					
		Fitter	day	1.000			
		Mazdoor	day	2.000			
		Supervisor	day	1.000			
		Total					
		(b) Machinery					
		Hire charges of Generator Set & Hydraulic testing equipment	day	1.000			
		(c) Material					
		Kerosene	Lt	9.000			
		Diesel	Lt	8.000			
		Water for Testing	Lt				
		Transport	day	1.000			
		Overheads & Contractors Profit					
		(d) Total (a+b+c)					
		Rate per RM =d/303					
	viii	180 mm Dia					
		Taking output : Length - 240 m ; Joints - 20 Nos					
		(a) Labour					
		For lowering / sub surface transport					
		Mazdoor	day	8.000			
		Jointing					
		Fitter	day	2.000			
		Mazdoor	day	4.000			
		Testing					
		Fitter	day	1.000			
		Mazdoor	day	2.000			
		Supervisor	day	1.000			
		Total Labour					
		(b) Machinery					
		Hire charges of Generator Set & Hydraulic testing equipment	day	1.000			
		(c) Material					
		Kerosene	Lt	10.000			
		Diesel	Lt	8.000			
		Water for Testing	Lt				
		Transport	day	1.000			
		Overheads & Contractors Profit					
		(d) Total (a+b+c)					
		Rate per RM =d/240					
	ix	200 mm Dia					
		Taking output : Length - 240 m ; Joints - 20 Nos					
		(a) Labour					
		For lowering / sub surface transport					
		Mazdoor	day	10.000			
		Jointing					
		Fitter	day	2.000			
		Mazdoor	day	6.000			
		Testing					
		Fitter	day	1.000			
		Mazdoor	day	2.000			
		Supervisor	day	1.000			
		Total					
		(b) Machinery					
		Hire charges of Generator Set & Hydraulic testing equipment	day	1.000			
		(c) Material					
		Kerosene	Lt	11.000			
		Diesel	Lt	8.000			
		Water for Testing	Lt				
		Transport	day	1.000			
		Overheads & Contractors Profit					
		(d) Total (a+b+c)					
		Rate per RM =d/240					
	x	225 mm Dia					
		Taking output : Length - 216 m ; Joints -18 Nos					
		(a) Labour					
		For lowering / sub surface transport					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
		Mazdoor	day	10.000			
		Jointing					
		Fitter	day	2.000			
		Mazdoor	day	6.000			
		Testing					
		Fitter	day	1.000			
		Mazdoor	day	2.000			
		Supervisor	day	1.000			
		Total					
		(b) Machinery					
		Hire charges of Generator Set & Hydraulic testing equipment	day	1.000			
		(c) Material					
		Kerosene	Lt	12.000			
		Diesel	Lt	8.000			
		Water for Testing	Lt				
		Transport	day	1.000			
		Overheads & Contractors Profit					
		(d) Total (a+b+c)					
		Rate per RM =d/216					
	xi	250 mm Dia					
		Taking output : Length - 216 m ; Joints - 18 Nos					
		(a) Labour					
		For lowering / sub surface transport					
		Mazdoor	day	11.000			
		Jointing					
		Fitter	day	2.000			
		Mazdoor	day	6.000			
		Testing					
		Fitter	day	1.000			
		Mazdoor	day	2.000			
		Supervisor	day	1.000			
		Total					
		(b) Machinery					
		Hire charges of Generator Set & Hydraulic testing equipment	day	1.000			
		(c) Material					
		Kerosene	Lt	13.000			
		Diesel	Lt	8.000			
		Water for Testing	Lt				
		Transport	day	1.000			
		Overheads & Contractors Profit					
		(d) Total (a+b+c)					
		Rate per RM =d/216					
	xii	280 mm Dia					
		Taking output : Length - 192 m ; Joints - 16 Nos					
		(a) Labour					
		For lowering / sub surface transport					
		Mazdoor	day	12.000			
		Jointing					
		Fitter	day	2.000			
		Mazdoor	day	6.000			
		Testing					
		Fitter	day	1.000			
		Mazdoor	day	2.000			
		Supervisor	day	1.000			
		Total					
		(b) Machinery					
		Hire charges of Generator Set & Hydraulic testing equipment	day	1.000			
		(c) Material					
		Kerosene	Lt	14.000			
		Diesel	Lt	8.000			
		Water for Testing	Lt				
		Transport	day	1.000			
		Overheads & Contractors Profit					
		(d) Total (a+b+c)					
		Rate per RM =d/192					
	xiii	315 mm Dia					
		Taking output : Length - 180 m ; Joints - 15 Nos					
		(a) Labour					
		For lowering / sub surface transport					
		Mazdoor	day	12.000			
		Jointing					
		Fitter	day	2.000			
		Mazdoor	day	6.000			

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
		Testing					
		Fitter	day	1.000			
		Mazdoor	day	2.000			
		Supervisor	day	1.000			
		Total					
		(b) Machinery					
		Hire charges of Generator Set & Hydraulic testing equipment	day	1.000			
		(c) Material					
		Kerosene	Lt	15.000			
		Diesel	Lt	8.000			
		Water for Testing	Lt				
		Transport	day	1.000			
		Overheads & Contractors Profit					
		(d) Total (a+b+c)					
		Rate per RM =d/180					
	xiv	355 mm Dia					
		Taking output : Length - 144 m ; Joints - 12 Nos					
		(a) Labour					
		For lowering / sub surface transport					
		Mazdoor	day	14.000			
		Jointing					
		Fitter	day	2.000			
		Mazdoor	day	8.000			
		Testing					
		Fitter	day	1.000			
		Mazdoor	day	2.000			
		Supervisor	day	1.000			
		Total					
		(b) Machinery					
		Hire charges of Generator Set & Hydraulic testing equipment	day	1.000			
		(c) Material					
		Kerosene	Lt	16.000			
		Diesel	Lt	8.000			
		Water for Testing	Lt				
		Transport	day	1.000			
		Overheads & Contractors Profit					
		(d) Total (a+b+c)					
		Rate per RM =d/144					
PHE-LJSW-13	13	Lowering and laying in ready made trench true to alignment and gradient, jointing, and testing of stone ware pipes including cost of jointing material such as cement mortar (1:1) proportion and hemp yarn but excluding cost and conveyance of pipe. (Reference to specifications BIS No. 6530/72)					
		Detail cost for 30 meters					
	i	100 mm dia					
		(a) Labour					
		Mason 1 st class	day	0.600			
		Mason 2 nd class	day	1.400			
		Man mazdoor	day	3.000			
		Woman mazdoor (Water carrier)	day	1.000			
		b) Material					
		100 mm dia SW pipe 60cm long	each/r m	50.000			
		Cement for 50 joints =0.045 cum	t/kg	0.065			
		Sand = 0.045 cum	cum	0.045			
		Spun yarn = 0.09x50=4.50	kgs	4.500			
		(c) Total = a+b					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
		(d) Add for water charges @ 1% on Labour & Testing Charges					
		(e) Total = c+d					
		(f) Overheads & Contractors Profit					
		(g) Cost for 30 m (e+f)					
		Rate per metre = g/30					
	ii	150 mm dia					
		(a) Labour					
		Mason 1 st class	day	0.900			
		Mason 2 nd class	day	2.100			
		Man mazdoor	day	4.000			
		Woman mazdoor (Water carrier)	day	1.000			
		b) Material					
		150 mm dia SW pipe 60cm long	each	50.000			
		Cement for 50 joints =0.045 cum	t	0.097			
		Sand = 0.045 cum	cum	0.068			
		Spun yarn = 0.09x50=4.50	kgs	9.000			
		(c) Total = a+b					
		(d) Add for water charges @ 1% on Labour & Testing Charges					
		(e) Total = c+d					
		(f) Overheads & Contractors Profit					
		(g) Cost for 30 m (e+f)					
		Rate per metre = g/30					
	iii	200 mm dia					
		(a) Labour					
		Mason 1 st class	day	1.050			
		Mason 2 nd class	day	2.450			
		Man mazdoor	day	4.500			
		Woman mazdoor (Water carrier)	day	1.250			
		b) Material					
		200 mm dia SW pipe 60cm long	each	50.000			
		Cement for 50 joints =0.045 cum	t	0.130			
		Sand = 0.045 cum	cum	0.091			
		Spun yarn = 0.09x50=4.50	kgs	12.000			
		(c) Total = a+b					
		(d) Add for water charges @ 1% on Labour & Testing Charges					
		(e) Total = c+d					
		(f) Overheads & Contractors Profit					
		(g) Cost for 30 m (e+f)					
		Rate per metre = g/30					
	iv	230 mm dia					
		(a) Labour					
		Mason 1 st class	day	1.200			
		Mason 2 nd class	day	2.800			
		Man mazdoor	day	5.000			
		Woman mazdoor (Water carrier)	day	1.500			
		b) Material					
		230 mm dia SW pipe 60cm long	each	50.000			
		Cement for 50 joints =0.045 cum	t	0.146			
		Sand = 0.045 cum	cum	0.102			
		Spun yarn = 0.09x50=4.50	kgs	13.500			
		(c) Total = a+b					
		(d) Add for water charges @ 1% on Labour & Testing Charges					
		(e) Total = c+d					
		(f) Overheads & Contractors Profit					
		(g) Cost for 30 m (e+f)					
		Rate per metre = g/30					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
	v	250 mm dia					
		(a) Labour					
		Mason 1 st class	day	1.350			
		Mason 2 nd class	day	3.150			
		Man mazdoor	day	5.500			
		Woman mazdoor (Water carrier)	day	1.500			
		(b) Material					
		250 mm dia SW pipe 60cm long	each	50.000			
		Cement for 50 joints =0.045 cum	t	0.162			
		Sand = 0.045 cum	cum	0.113			
		Spun yarn = 0.09x50=4.50	kgs	15.000			
		(c) Total = a+b					
		(d) Add for water charges @ 1% on Labour & Testing Charges					
		(e) Total = c+d					
		(f) Overheads & Contractors Profit					
		(g) Cost for 30 m (e+f)					
		Rate per metre = g/30					
	vi	300 mm dia					
		(a) Labour					
		Mason 1 st class	day	1.500			
		Mason 2 nd class	day	3.500			
		Man mazdoor	day	6.000			
		Woman mazdoor (Water carrier)	day	1.500			
		(b) Material					
		300 mm dia SW pipe 60cm long	each	50.000			
		Cement for 50 joints =0.045 cum	t	0.194			
		Sand = 0.045 cum	cum	0.136			
		Spun yarn = 0.09x50=4.50	kgs	18.000			
		(c) Total = a+b					
		(d) Add for water charges @ 1% on Labour & Testing Charges					
		(e) Total = c+d					
		(f) Overheads & Contractors Profit					
		(g) Cost for 30 m (e+f)					
		Rate per metre = g/30					
	vii	350 mm dia					
		(a) Labour					
		Mason 1 st class	day	1.650			
		Mason 2 nd class	day	3.850			
		Man mazdoor	day	7.000			
		Woman mazdoor (Water carrier)	day	1.750			
		(b) Material					
		350 mm dia SW pipe 60cm long	each	50.000			
		Cement for 50 joints =0.045 cum	t	0.225			
		Sand = 0.045 cum	cum	0.159			
		Spun yarn = 0.09x50=4.50	kgs	21.000			
		(c) Total = a+b					
		(d) Add for water charges @ 1% on Labour & Testing Charges					
		(e) Total = c+d					
		(f) Overheads & Contractors Profit					
		(g) Cost for 30 m (e+f)					
		Rate per metre = g/30					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
	viii	400 mm dia					
		(a) Labour					
		Mason 1 st class	day	1.800			
		Mason 2 nd class	day	4.200			
		Man mazdoor	day	8.000			
		Woman mazdoor (Water carrier)	day	1.750			
		b) Material					
		400 mm dia SW pipe 60cm long	each	50.000			
		Cement for 50 joints =0.045 cum	t	0.256			
		Sand = 0.045 cum	cum	0.181			
		Spun yarn = 0.09x50=4.50	kgs	24.000			
		(c) Total = a+b					
		(d) Add for water charges @ 1% on Labour & Testing Charges					
		(e) Total = c+d					
		(f) Overheads & Contractors Profit					
		(g) Cost for 30 m (e+f)					
		Rate per metre = g/30					
	ix	450 mm dia					
		(a) Labour					
		Mason 1 st class	day	2.100			
		Mason 2 nd class	day	4.900			
		Man mazdoor	day	10.000			
		Woman mazdoor (Water carrier)	day	2.000			
		b) Material					
		450 mm dia SW pipe 60cm long	each	50.000			
		Cement for 50 joints =0.045 cum	t	0.293			
		Sand = 0.045 cum	cum	0.204			
		Spun yarn = 0.09x50=4.50	kgs	27.000			
		(c) Total = a+b					
		(d) Add for water charges @ 1% on Labour & Testing Charges					
		(e) Total = c+d					
		(f) Overheads & Contractors Profit					
		(g) Cost for 30 m (e+f)					
		Rate per metre = g/30					
PHE-CISP-14(sub_analysis)	14	Sub Analysis :					
		Labour charges for laying in position S&S or flanged C.I. specials such as tees, bends, collars tapers and caps etc					
		10 No. Tees of 200x150mm dia					
		Weight = 10x70kgs = 700 kgs					
		(a) Labour					
		Plumber 1 st class	day	0.465			
		Plumber 2 nd class	day	1.094			
		Man mazdoor	day	2.480			
		Cost for 700 kgs					
		Cost for 1kg					
PHE-CISV-15	15	Lowering, keeping in position and fixing C.I. sluice valves (with cap / with hand wheel & reflex valves) excluding cost of bolts, nuts, rubber insertion, sluice valve and tail pieces					
		Details of cost for 1No					
	i	80 mm dia meter					
		(a) Labour					
		Labour for laying Sluice Valve with cap, with hand wheel & reflex valves - Weight (32.3+34.1+40)/3=35.47	kgs	35.470			
		Overheads & Contractors Profit					
		Rate per 1 Sluice valve					
	ii	100 mm dia meter					
		(a) Labour					
		Labour for laying Sluice Valve with cap, with hand wheel & reflex valves - Weight (44.3+47+50)/3=47.1	kgs	47.100			
		(g) Overheads & Contractors Profit					
		Rate per 1 Sluice valve					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
	iii	125 mm dia meter					
		(a) Labour					
		Labour for laying Sluice Valve with cap, with hand wheel & reflex valves - Weight $(56.3+59+70)/3=61.77$	kgs	61.770			
		(g) Overheads & Contractors Profit					
		Rate per 1 Sluice valve					
	iv	150 mm dia meter					
		(a) Labour					
		Labour for laying Sluice Valve with cap, with hand wheel & reflex valves - $(72.5+77+90)/3=79.83$	kgs	79.830			
		(g) Overheads & Contractors Profit					
		Rate per 1 Sluice valve					
	v	200 mm dia meter					
		(a) Labour					
		Labour for laying Sluice Valve with cap, with hand wheel & reflex valves - $(121.5+128.6+145)/3=131.7$	kgs	131.700			
		(g) Overheads & Contractors Profit					
		Rate per 1 Sluice valve					
	vi	250 mm dia meter					
		(a) Labour					
		Labour for laying Sluice Valve with cap, with hand wheel & reflex valves - $(179.9+186.6+195)/3=187.16$	kgs	187.160			
		(g) Overheads & Contractors Profit					
		Rate per 1 Sluice valve					
	vii	300 mm dia meter					
		(a) Labour					
		Labour for laying Sluice Valve with cap, with hand wheel & reflex valves - $(242.4+257+300)/3=266.46$	kgs	266.460			
		(g) Overheads & Contractors Profit					
		Rate per 1 Sluice valve					
	viii	350 mm dia meter					
		(a) Labour					
		Labour for laying Sluice Valve with cap, with hand wheel & reflex valves - $(430+470)/2=450$	kgs	450.000			
		Overheads & Contractors Profit					
		Rate per each					
	ix	400 mm dia meter					
		(a) Labour					
		Labour for laying Sluice Valve with cap, with hand wheel & reflex valves - $(525+580)/2=552.5$	kgs	552.500			
		Overheads & Contractors Profit					
		Rate per each					
	x	450 mm dia meter					
		(a) Labour					
		Labour for laying Sluice Valve with cap, with hand wheel & reflex valves - $(635+810)/2=722.5$	kgs	722.500			
		Overheads & Contractors Profit					
		Rate per each					
	xi	500 mm dia meter					
		(a) Labour					
		Labour for laying Sluice Valve with cap, with hand wheel & reflex valves - $(775+900)/2=837.5$	kgs	837.500			
		Overheads & Contractors Profit					
		Rate per each					
	xii	600 mm dia meter					
		(a) Labour					
		Labour for laying Sluice Valve with cap, with hand wheel & reflex valves - $(1220+1625)/2=1422.5$	kgs	1422.500			
		Overheads & Contractors Profit					
		Rate per each					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
PHE-DAAV-16	16 A	Providing and fixing double acting air valves including boring the main threading the bore and fixing nipple etc.,excluding the cost of rubber insertions, bolts & nuts, air valve & flanged tail pieces complete					
		Details of cost for each					
	i	50 mm dia meter					
		(a) Labour					
		Labour for laying air valve	kgs	20.000			
		Plumber 2 nd class	day	0.180			
		Man mazdoor	day	0.180			
		Overheads & Contractors Profit					
		Rate per each valve					
	16 B	Labour charges for fixing Air valves including boring the mains and threading the bore fixing nipple etc., complete.					
		Unit each					
	i	40 mm dia					
		(a) Labour					
		Lowering charges for air valve	kgs	27.000			
	Boring main & threding etc						
	Plumber 2 nd class	day	0.140				
	Man mazdoor	day	0.140				
	Overheads & Contractors Profit						
	Rate per each valve						
PHE-SFHD-17	ii	25 mm dia					
		(a) Labour					
		Lowering charges for air valve	kgs	20.000			
		Boring main & threding etc					
		Plumber 2 nd class	day	0.110			
		Man mazdoor	day	0.110			
		Overheads & Contractors Profit					
		Rate per each valve					
	17	Providing and fixing spindle fire hydrant with 65 mm outlet. Complete with bolts, nuts, and rubber insertion etc. complete but excluding cost of Materials.					
		Details of cost for 1fire hydrants					
	i	65 mm dia					
		(a) Labour					
		Plumber 1 st class	day	0.750			
		Plumber 2 nd class	day	1.750			
	Man mazdoor	day	4.000				
	Overheads & Contractors Profit						
	Rate per each fire hydrant						
	Note : For other sizes proportionately allow the Data.						
PHE-DSFH-18	18	Dismantling of spindle fire hydrant including stacking of useful materials within 50m lead					
		Details of cost for 10 Nos					
		65 mm dia					
		(a) Labour					
		Fitter 1st class	day	0.750			
		Fitter 2nd class	day	1.750			
		Man mazdoor	day	4.000			
	Overheads & Contractors Profit						
	Rate per each						

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks	
	1	2	3	4	5	6	7	
PHE-URCI-19	19	Uprooting of C.I. pipes by melting lead, loosening the joints, separating the pipes, hoisting and keeping within a lead of 10 metres but excluding earth work excavation and refilling						
		Details of cost for 40.26 m						
	i	80mm dia metre						
		(a) Labour						
		Assistant fitter(plumber 2 nd class)	day	0.500				
		Man mazdoor	day	4.000				
		b) Material						
		For breacking lead coukled joints, melting lead etc.,						
		Fuel wood	q	0.373				
		Kerosene oil	litre	0.379				
		(c) Total = a+b						
		(d) Overheads & Contractors Profit						
		(e) Cost for 40.26 m (c+d)						
		Rate per each m = e/40.26						
		ii	100mm dia metre					
		(a) Labour						
		Assistant fitter(plumber 2 nd class)	day	0.630				
		Man mazdoor	day	4.500				
		b) Material						
		For breacking lead coukled joints, melting lead etc.,						
		Fuel wood	q	0.466				
		Kerosene oil	litre	0.379				
		(c) Total = a+b						
		(d) Overheads & Contractors Profit						
		(e) Cost for 40.26 m (c+d)						
		Rate per each m = e/40.26						
		iii	125mm dia metre					
		(a) Labour						
		Assistant fitter(plumber 2 nd class)	day	0.760				
		Man mazdoor	day	5.000				
		b) Material						
		For breacking lead coukled joints, melting lead etc.,						
		Fuel wood	q	0.559				
		Kerosene oil	litre	0.562				
		(c) Total = a+b						
		(d) Overheads & Contractors Profit						
		(e) Cost for 40.26 m (c+d)						
		Rate per each m = e/40.26						
		iv	150mm dia metre					
		(a) Labour						
	Assistant fitter(plumber 2 nd class)	day	0.830					
	Man mazdoor	day	5.500					
	b) Material							
	For breacking lead coukled joints, melting lead etc.,							
	Fuel wood	q	0.663					
	Kerosene oil	litre	0.568					
	(c) Total = a+b							
	(d) Overheads & Contractors Profit							
	(e) Cost for 40.26 m (c+d)							
	Rate per each m = e/40.26							
	v	200mm dia metre						
	(a) Labour							
	Assistant fitter(plumber 2 nd class)	day	1.100					
	Man mazdoor	day	6.500					
	b) Material							
	For breacking lead coukled joints, melting lead etc.,							
	Fuel wood	q	0.840					
	Kerosene oil	litre	0.757					
	(c) Total = a+b							
	(d) Overheads & Contractors Profit							
	(e) Cost for 40.26 m (c+d)							
	Rate per each m = e/40.26							

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
	vi	250mm dia metre					
		(a) Labour					
		Assistant fitter(plumber 2 nd class)	day	1.300			
		Man mazdoor	day	7.500			
		b) Material					
		For breacking lead coulked joints, melting lead etc.,					
		Fuel wood	q	1.026			
		Kerosene oil	litre	1.137			
		(c) Total = a+b					
		(d) Overheads & Contractors Profit					
		(e) Cost for 40.26 m (c+d)					
		Rate per each m = e/40.26					
	vii	300mm dia metre					
		(a) Labour					
		Assistant fitter(plumber 2 nd class)	day	1.500			
		Man mazdoor	day	8.500			
		b) Material					
		For breacking lead coulked joints, melting lead etc.,					
		Fuel wood	q	1.120			
		Kerosene oil	litre	1.515			
		(c) Total = a+b					
		(d) Overheads & Contractors Profit					
		(e) Cost for 40.26 m (c+d)					
		Rate per each m = e/40.26					
	viii	350mm dia metre					
		(a) Labour					
		Assistant fitter(plumber 2 nd class)	day	1.750			
		Man mazdoor	day	9.500			
		b) Material					
		For breacking lead coulked joints, melting lead etc.,					
		Fuel wood	q	1.231			
		Kerosene oil	litre	1.515			
		(c) Total = a+b					
		(d) Overheads & Contractors Profit					
		(e) Cost for 40.26 m (c+d)					
		Rate per each m = e/40.26					
	ix	400mm dia metre					
		(a) Labour					
		Assistant fitter(plumber 2 nd class)	day	2.000			
		Man mazdoor	day	10.500			
		b) Material					
		For breacking lead coulked joints, melting lead etc.,					
		Fuel wood	q	1.306			
		Kerosene oil	litre	1.894			
		(c) Total = a+b					
		(d) Overheads & Contractors Profit					
		(e) Cost for 40.26 m (c+d)					
		Rate per each m = e/40.26					
	x	450mm dia metre					
		(a) Labour					
		Assistant fitter(plumber 2 nd class)	day	2.250			
		Man mazdoor	day	11.500			
		b) Material					
		For breacking lead coulked joints, melting lead etc.,					
		Fuel wood	q	1.400			
		Kerosene oil	litre	2.273			
		(c) Total = a+b					
		(d) Overheads & Contractors Profit					
		(e) Cost for 40.26 m (c+d)					
		Rate per each m = e/40.26					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
	xi	500mm dia metre					
		(a) Labour					
		Assistant fitter(plumber 2 nd class)	day	2.500			
		Man mazdoor	day	12.500			
		b) Material					
		For breacking lead coulked joints, melting lead etc.,					
		Fuel wood	q	1.492			
		Kerosene oil	litre	2.652			
		(c) Total = a+b					
		(d) Overheads & Contractors Profit					
		(e) Cost for 40.26 m (c+d)					
		Rate per each m = e/40.26					
	xii	600mm dia metre					
		(a) Labour					
		Assistant fitter(plumber 2 nd class)	day	3.000			
		Man mazdoor	day	14.500			
		b) Material					
		For breacking lead coulked joints, melting lead etc.,					
		Fuel wood	q	1.580			
		Kerosene oil	litre	3.410			
		(c) Total = a+b					
		(d) Overheads & Contractors Profit					
		(e) Cost for 40.26 m (c+d)					
		Rate per each m = e/40.26					
PHE-URRC-20	20	Uprooting of R.C.C. Pipes including breaking the collars, loosing the joint, scraping the pipe, hoisting and keeping within a lead of 10 M but excluding earthwork excavation and refilling					
		Taking output 10.00 Rmt					
	i	100mm dia					
		(a) Labour					
		Fitter 2 nd class	day	0.100			
		Man mazdoor	day	0.400			
		Women mazdoor	day	0.450			
		(b) Overheads & Contractors Profit					
		(c) Cost for 10 Rmt (a+b)					
		Rate per each Rmt = c/10					
	ii	150mm dia					
		(a) Labour					
		Fitter 2 nd class	day	0.100			
		Man mazdoor	day	0.490			
		Women mazdoor	day	0.560			
		(b) Overheads & Contractors Profit					
		(c) Cost for 10 Rmt (a+b)					
		Rate per each Rmt = c/10					
	iii	225mm dia					
		(a) Labour					
		Fitter 2 nd class	day	0.100			
		Man mazdoor	day	0.490			
		Women mazdoor	day	0.670			
		(b) Overheads & Contractors Profit					
		(c) Cost for 10 Rmt (a+b)					
		Rate per each Rmt = c/10					
	iv	300mm dia					
		(a) Labour					
		Fitter 2 nd class	day	0.100			
		Man mazdoor	day	0.490			
		Women mazdoor	day	0.790			
		(b) Overheads & Contractors Profit					
		(c) Cost for 10 Rmt (a+b)					
		Rate per each Rmt = c/10					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
PHE-URSW-21	21	Uprooting of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site with in 50m lead and disposal of un serviceable materials in to municipal dumps excluding the cost of earth work excavation. (Reference to specifications BIS No.)					
		Details of cost for 10 m					
	i	100mm dia metre					
		(a) Labour					
		Man mazdoor	day	0.490			
		Women mazdoor	day	0.360			
		(b) Overheads & Contractors Profit					
		(c) Cost for 10 m (a+b)					
		Rate per each m =c/10					
	ii	150mm dia metre					
		(a) Labour					
		Man mazdoor	day	0.490			
		Women mazdoor	day	0.450			
		(b) Overheads & Contractors Profit					
		(c) Cost for 10 m (a+b)					
		Rate per each m =c/10					
	iii	200mm dia metre					
		(a) Labour					
		Man mazdoor	day	0.490			
		Women mazdoor	day	0.510			
		(b) Overheads & Contractors Profit					
		(c) Cost for 10 m (a+b)					
		Rate per each m =c/10					
	iv	230mm dia metre					
		(a) Labour					
		Man mazdoor	day	0.490			
		Women mazdoor	day	0.540			
		(b) Overheads & Contractors Profit					
	(c) Cost for 10 m (a+b)						
	Rate per each m =c/10						
v	250mm dia metre						
	(a) Labour						
	Man mazdoor	day	0.490				
	Women mazdoor	day	0.570				
	(b) Overheads & Contractors Profit						
	(c) Cost for 10 m (a+b)						
	Rate per each m =c/10						
vi	300mm dia metre						
	(a) Labour						
	Man mazdoor	day	0.490				
	Women mazdoor	day	0.630				
	(b) Overheads & Contractors Profit						
	(c) Cost for 10 m (a+b)						
	Rate per each m =c/10						
vii	350mm dia metre						
	(a) Labour						
	Man mazdoor	day	0.490				
	Women mazdoor	day	0.690				
	(b) Overheads & Contractors Profit						
	(c) Cost for 10 m (a+b)						
	Rate per each m =c/10						

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
	viii	400mm dia metre					
		(a) Labour					
		Man mazdoor	day	0.660			
		Women mazdoor	day	0.750			
		(b) Overheads & Contractors Profit					
		(c) Cost for 10 m (a+b)					
		Rate per each m =c/10					
	ix	450mm dia metre					
		(a) Labour					
		Man mazdoor	day	0.660			
		Women mazdoor	day	0.810			
		(b) Overheads & Contractors Profit					
		(c) Cost for 10 m (a+b)					
		Rate per each m =c/10					
PHE-URGI-22	22	Removing old G.I.pipes and specials / fittings and cleaning, scraping the pipes, hoisting and keeping with in 50m lead but excluding earth work excavation of trenches and refilling					
		Details of cost for 10 m					
	i	15 to 40mm dia					
		(a) Labour					
		Plumber	day	0.130			
		(b) Overheads & Contractors Profit					
		(c) Cost for 10 m (a+b)					
		Rate per each m =c/10					
	ii	Above 40mm dia					
		(a) Labour					
		Plumber	day	0.260			
		(b) Overheads & Contractors Profit					
		(c) Cost for 10 m (a+b)					
		Rate per each m =c/10					
PHE-CCIP-23	23	Cutting C.I. / D.I. pipes without water in mains					
		Details of cost for one cutting					
	i	80 mm dia					
		(a) Labour					
		Asst. Fitter / Plumber 2nd class	day	0.060			
		Man mazdoor	day	0.060			
		(b) Overheads & Contractors Profit					
		Rate per each m					
	ii	100 mm dia					
		(a) Labour					
		Asst. Fitter / Plumber 2nd class	day	0.080			
		Man mazdoor	day	0.080			
		(b) Overheads & Contractors Profit					
		Rate per each m					
	iii	125 mm dia					
		(a) Labour					
		Asst. Fitter / Plumber 2nd class	day	0.110			
		Man mazdoor	day	0.110			
		(b) Overheads & Contractors Profit					
		Rate per each m					
	iv	150 mm dia					
		(a) Labour					
		Asst. Fitter / Plumber 2nd class	day	0.150			
		Man mazdoor	day	0.150			
		(b) Overheads & Contractors Profit					
		Rate per each m					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
	v	200 mm dia					
		(a) Labour					
		Asst. Fitter / Plumber 2nd class	day	0.200			
		Man mazdoor	day	0.200			
		(b) Overheads & Contractors Profit					
		Rate per each m					
	vi	250 mm dia					
		(a) Labour					
		Asst. Fitter / Plumber 2nd class	day	0.250			
		Man mazdoor	day	0.250			
		(b) Overheads & Contractors Profit					
		Rate per each m					
	vii	300 mm dia					
		(a) Labour					
		Asst. Fitter / Plumber 2nd class	day	0.300			
		Man mazdoor	day	0.300			
		(b) Overheads & Contractors Profit					
		Rate per each m					
	viii	350 mm dia					
		(a) Labour					
		Asst. Fitter / Plumber 2nd class	day	0.350			
		Man mazdoor	day	0.350			
		(b) Overheads & Contractors Profit					
		Rate per each m					
	ix	400 mm dia					
		(a) Labour					
		Asst. Fitter / Plumber 2nd class	day	0.400			
		Man mazdoor	day	0.400			
		(b) Overheads & Contractors Profit					
		Rate per each m					
	x	450 mm dia					
		(a) Labour					
		Asst. Fitter / Plumber 2nd class	day	0.450			
		Man mazdoor	day	0.450			
		(b) Overheads & Contractors Profit					
		Rate per each m					
	xi	500 mm dia					
		(a) Labour					
		Asst. Fitter / Plumber 2nd class	day	0.500			
		Man mazdoor	day	0.500			
		(b) Overheads & Contractors Profit					
		Rate per each m					
	xii	600 mm dia					
		(a) Labour					
		Asst. Fitter / Plumber 2nd class	day	0.600			
		Man mazdoor	day	0.600			
		(b) Overheads & Contractors Profit					
		Rate per each m					
PHE-DTCI-24	24	Drilling and tapping C.I./D.I. main and fixing brass screw down ferrule and C.I.mouth cover.(Labour charges only)					
		Details of cost for one no					
	i	15 mm dia					
		(a) Labour					
		Plumber	day	0.130			
		(b) Overheads & Contractors Profit					
		Rate per each m					
	ii	20 mm dia					
		(a) Labour					
		Plumber	day	0.150			
		(b) Overheads & Contractors Profit					
		Rate per each m					
	iii	25 mm dia					
		(a) Labour					
		Plumber	day	0.170			
		(b) Overheads & Contractors Profit					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
PHE-SHST-25		Rate per each m					
	25	Shoring and strutting of trenches for water and sewer lines					
	(A)	Single staging from 0' to 8'-0" (0 to 2.5 Metre)					
		Depth not exceeding 1.5 M					
		Details of cost for an area 30 M long and 1.5 M deep.					
		Area = 30 x 1.5 = 45 sqm					
		(a) Labour					
		Carpenter 2 nd class	day	0.570			
		Man mazdoor	day	1.100			
		b) Material					
		Polling boards and ballies	sqm				
		Requirement for 45 sqm :					
		Polling Boards of 250 mm x 35 mm (40 x 1.5 x 0.25 x 0.038)	cum				
		Ballies 125 mm dia 1.5 mts long (60 x p x (0.125)2 / 4 x 1.5	cum				
		Deduct-Credit for materials after use @ 80% of the cost of materials =0.8 x X					
		c) Machinery					
		Nil					
		Overheads & Contractors Profit					
		(d) Cost for 45 sqm (a+b+c)					
		Rate per each sqm = d/45					
		(B) Double staging from 8' to 14 (2.5 to 4.5 Metre)					
		Depth not exceeding 1.5 M					
		Details of cost for an area 30 M long and 1.5 M deep.					
		Area = 30 x 1.5 = 45 Sqm					
		(a) Labour					
		Carpenter 2 nd class	day	0.500			
		Man mazdoor	day	1.320			
		b) Material					
		Polling boards and ballies	sqm				
		Requirement for 45 sqm :					
		Polling Boards of 250 mm x 35 mm (40 x 1.5 x 0.25 x 0.038 = 0.57 cum)	cum	0.110			
		Ballies 125 mm dia 1.5 mts long (60 x p x (0.125)2 / 4 x 1.5 = 1.1 cum	cum	0.220			
		Deduct – Credit for materials after use @ 80% of the cost of materials = 0.8 x X					
	c) Machinery						
	Nil						
	Overheads & Contractors Profit						
	(d) Cost for 45 sqm (a+b+c)						
	Rate per each sqm = d/45						
	(C) Triple staging beyond 14' for every 2 meter (beyond 4.5 M)						
	Depth not exceeding 1.5 M.						
	Note : Add for every 2 Mts (difference of single and double staging) for staging beyond 4.5 mts.						
PHE-BHLW-26	26	Barricading, hoarding, lighting and watching etc., for water supply and sewerage works for trenches of depths upto 6'-0" (2 Meter) below G.L					
		Taking output 3 Rmt					
		Material					
		Bamboos of 1 ½ "dia 2.5 M long (5 ft c/c = 3 x 2.5)	rmt	7.50			
		Baboom of 1 ½ "dia 3.66 M long (5 ft c/c = 3x 3.66)	rmt	10.98			
		Cost of Bamboos					
		(a) Usage of Material 5 times. Thus Cost of Material taken as 20%					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
PHE-RCVS-27		(b) Labour					
		Man mazdoor	day	0.500			
		(c) Sundries for Coir rope, nails, @ 1%					
		(d) Sundries for lighting and watching etc at 1%					
		Overheads & Contractors Profit					
		Cost for 3rmt (a+b+c+d)					
		Rate per each rmt = (a+b+c+d)/3					
	27	Providing RCC spun vent shaft with cowl 140 mm and 200 mm internal and external dia respectively at top, 300 and 450 mm internal and external dia respectively at bottom and 9.10m overall length. Bottom 1.25 m below ground level fixed in a pit 90cmx90cm x150 cm with cement concrete 1:4:8, 25cm in bed and minimum 20cm all-round with top 15cm in cement concrete 1:2:4. Junction of vent shaft and concrete grouted with cement mortar 1:1 including making connection with sewer manhole with 150 mm dia metre cement concrete pipe of required length complete as per standard design					
		Details of cost for one vent shaft					
		(a) Labour					
	Mason 1 st class	day	0.750				
	Mason 2 nd class	day	0.250				
	Man mazdoor (bhandani)	day	2.000				
	Man mazdoor (beldar)	day	2.000				
	b) Material						
	RCC went shaft with cowl	each	1.000				
	RCC pipe 150 mm dia 0.50 m (NP-2 class)	m	0.500				
	Cement Concrete 1:4:8(plain)						
	0.90 x 0.90 x 135 = 1.094 cum						
	Less for shaft 22/7 x 4 x 0.452 x 1.1= 0.175cum = 0.919 cum	cum	0.920				
	Cement Concrete 1:2:4 (plain)						
	0.90 x 0.90 x 0.15 = 0.122 cum						
	Less for shaft 22/7x4 x 0.452 x 0.15= 0.024cum = 0.098 cum	cum	0.100				
	(c) Total (a+b)						
	(d) Add for water charges @ 1% on Labour & Testing Charges on Labour Charges			1%			
	(e) Total = c+d						
	(f) Overheads & Contractors Profit						
	(g) Cost for 1 No = e+f						
PHE-WSNP-28		Well Sinking					
	28	Well sinking in sandy and other loose soils under water either by manual labour, divers or dredgers weighting the top of staining to assist sinking etc., including dewatering and other incidental charges such as hire charges for mechanical equipment etc., complete upto 4.0 m dia (For non perennial rivers)					
	i	Upto 2.0 m below G.L. :					
		(a) Labour					
		Man mazdoor	day	105.000			
		(b) Total					
		Rate per Rm = b/2					
	ii	2.0 to 4.0 m below G.L. :					
		(a) Labour					
		Man mazdoor	day	70.000			
		Sinkers	day	35.000			
		b) Machinery					
		Hire charges for crane	hour	16.000			
		Hire charges for Air compressor	hour	56.000			
		Hire charges for Generator	hour	56.000			
		Diesel	L	70.000			
		Overheads & Contractors Profit					
		c) Total					
		Rate per Rm = c/2					
	iii	4.0 to 6.0 m below G.L. :					
	(a) Labour						
	Man mazdoor	day	56.000				
	Sinkers	day	35.000				
	b) Machinery						

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
		Hire charges for crane	hour	56.000			
		Hire charges for Air compressor	hour	56.000			
		Hire charges for Generator	hour	56.000			
		Diesel	L	105.000			
		Overheads & Contractors Profit					
		c) Total					
		Rate per Rm = c/2					
	iv	6.0 to 8.0 m below G.L. :					
		(a) Labour					
		Man mazdoor	day	56.000			
		Sinkers	day	35.000			
		b) Machinery					
		Hire charges for crane	hour	56.000			
		Hire charges for Air compressor	hour	56.000			
		Hire charges for Generator	hour	56.000			
		Diesel	L	140.000			
		Overheads & Contractors Profit					
		c) Total					
		Rate per Rm = c/2					
	v	8.0 to 10.0 m below G.L. :					
		(a) Labour					
		Man mazdoor	day	64.000			
		Sinkers	day	40.000			
		b) Machinery					
		Hire charges for crane	hour	64.000			
		Hire charges for Air compressor	hour	64.000			
		Hire charges for Generator	hour	64.000			
		Diesel	L	140.000			
		Overheads & Contractors Profit					
		c) Total					
		Rate per Rm = c/2					
	29	Sinking of RCC 12 m dia well in sandy soils, soft disintegrated rock, loamy and clayey soils etc; under water by manual or mechanical means including dewatering until the completion of sinking of the well to the required depth, the dummies of the weep holes pipes are opened for seepage of water into well, including all hire charges complete as per SS and as directed by the departmental officers (Open well excavation)					
	i	Upto 2.0 m below G.L. :					
		(a) Labour					
		Man mazdoor	day	168.000			
		(b) Total					
		Rate per Rm = b/2					
	ii	2.0 to 4.0 m below G.L. :					
		(a) Labour					
		Man mazdoor	day	178.000			
		Crane Operator	day	11.000			
		b) Machinery					
		Hire charges for crane	hour	88.000			
		Hire charges for Generator	hour	88.000			
		Diesel	L	440.000			
		Overheads & Contractors Profit					
		c) Total					
		Rate per Rm = c/2					

PHE-WSOW-
29

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks	
	1	2	3	4	5	6	7	
PHE-WSPR-30	iii	4.0 to 6.0 m below G.L. :						
		(a) Labour						
		Man mazdoor	day	157.000				
		Sinkers	day	48.000				
		Crane Operator	day	12.000				
		b) Machinery						
		Hire charges for crane	hour	96.000				
		Hire charges for Air compressor	hour	102.000				
		Hire charges for Generator	hour	96.000				
		Diesel	L	1056.000				
		Overheads & Contractors Profit						
		c) Total						
		Rate per Rm = c/2						
		iv	6.0 to 8.0 m below G.L. :					
			(a) Labour					
			Man mazdoor	day	195.000			
			Sinkers	day	120.000			
			Crane Operator	day	15.000			
			b) Machinery					
			Hire charges for crane	hour	120.000			
			Hire charges for Air compressor	hour	124.000			
			Hire charges for Generator	hour	120.000			
			Diesel	L	1334.000			
			Overheads & Contractors Profit					
			c) Total					
			Rate per Rm = c/2					
		v	8.0 to 10.0 m below G.L. :					
			(a) Labour					
			Man mazdoor	day	272.000			
			Sinkers	day	204.000			
			Crane Operator	day	17.000			
			b) Machinery					
			Hire charges for crane	hour	124.000			
			Hire charges for Air compressor	hour	124.000			
			Hire charges for Generator	hour	136.000			
			Diesel	L	1344.000			
			Overheads & Contractors Profit					
			c) Total					
			Rate per Rm = c/2					
		vi	10.0 to 12.85 m below G.L. :					
			(a) Labour					
			Man mazdoor	day	360.000			
			Sinkers	day	288.000			
			Crane Operator	day	24.000			
			b) Machinery					
			Hire charges for crane	hour	192.000			
			Hire charges for Air compressor	hour	198.000			
		Hire charges for Generator	hour	160.000				
		Diesel	L	2148.000				
		Overheads & Contractors Profit						
		c) Total						
		Rate per Rm = c/2.85						
	30	Well sinking in sandy and other loose soils under water either by manual labour, divers or dredgers weighting the top of steining to assist sinking etc., including dewatering and other incidental charges such as hire charges for mechanical equipment etc., complete upto 7 m dia (In Perennial Rivers only)						
	i	Upto 2.0 m below G.L. :						
		(a) Labour						
		Man mazdoor	day	32.000				
		Well sinkers	day	64.000				
		b) Machinery						
		Hire charges of set of Helmets & Air circulating pipes / valves	day	4.00				
		Hire charges for crane	hour	32.00				
		Hire charges for compressors	hour	32.00				

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	Remarks
	1	2	3	4	5	6	7
		Diesel	L	120.00			
		Overheads & Contractors Profit					
		c) Total					
		Rate per Rm = c/2					
	ii	2.0 to 4.0 m below G.L. :					
		(a) Labour					
		Man mazdoor	day	40.000			
		Well sinkers	day	80.000			
		b) Machinery					
		Hire charges of set of Helmets & Air circulating pipes / valves	day	5.00			
		Hire charges for crane	hour	40.00			
		Hire charges for compressors	hour	40.00			
		Diesel	L	150.00			
		Overheads & Contractors Profit					
		c) Total					
		Rate per Rm = c/2					
	iii	4.0 to 6.0 m below G.L. :					
		(a) Labour					
		Man mazdoor	day	48.000			
		Well sinkers	day	96.000			
		b) Machinery					
		Hire charges of set of Helmets & Air circulating pipes / valves	day	6.00			
		Hire charges for crane	hour	48.00			
		Hire charges for compressors	hour	48.00			
		Diesel	L	180.00			
		Overheads & Contractors Profit					
		c) Total					
		Rate per Rm = c/2					
	iv	6.0 to 8.0 m below G.L. :					
		(a) Labour					
		Man mazdoor	day	56.000			
		Well sinkers	day	112.000			
		b) Machinery					
		Hire charges of set of Helmets & Air circulating pipes / valves	day	7.00			
		Hire charges for crane	hour	56.00			
		Hire charges for compressors	hour	56.00			
		Diesel	L	210.00			
		Overheads & Contractors Profit					
		c) Total					
		Rate per Rm = c/2					
	v	8.0 to 10.0 m below G.L. :					
		(a) Labour					
		Man mazdoor	day	64.000			
		Well sinkers	day	128.000			
		b) Machinery					
		Hire charges of set of Helmets & Air circulating pipes / valves	day	8.00			
		Hire charges for crane	hour	64.00			
		Hire charges for compressors	hour	64.00			
		Diesel	L	240.00			
		Overheads & Contractors Profit					
		c) Total					
		Rate per Rm = c/2					
		Note : This data shall be adopted for well sinking in perennial rivers. For other rivers, data available for 4.0 m dia infiltration well may be adopted for guidance					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
PHE-CCCP-31	31	Curing of CC pavement for 21 days including cost and conveyance of water, labour charges, etc., complete					
		Areas Considered 3 . 5 x 100 mts = 350 sqm					
		Units = 1 sqm					
		Mud quantity is required = 14% of CC area x 5 cm					
		(a) Labour					
		Man mazdoor (21 x 2).	day	42.000			
		b) Machinery					
		Carting earth for 3 kms	cum	2.450			
		Hire charges for Water Drum (5 x 21 days)	each	105.000			
		c) Material					
		Earth Work (100 x 3.5 x 14/100 x .05)	cum	2.450			
		Supply of Water (240 Lts / cum / day)	L	18900.000			
		Overheads & Contractors Profit					
		(d) Total = a+b+c					
	Rate per sqm =d/350						
PHE-CSHR-32		Note : 1. When Curing compound is used @ 1.97 kgs/cum, water requirement is 206 Lts / cum per 14 days.					
		2. This data is for urban areas only					
	32	Cutting sheet rock including stocking of excavated material.					
		Quality of sheet rock as per stock measurement = 36.53 cumm (taking out put = 36.53 cum)					
		(a) Labour					
		Man mazdoor	day	60.000			
		b) Machinery					
		Drilling of holes	each	342.000			
		Hire charges for JCB	hr	3.000			
		MS Nokkulu	each	10.000			
		Overheads & Contractors Profit					
		(c) Total = a+b					
		Rate per cum =c/36.53					
	PHE-EXRW-33	33	Excavation in Hard Rock (blasting prohibited)				
		Excavation for roadway in hard rock (blasting prohibited) with rock breakers including breaking rock, loading in tippers and disposal with all lifts and lead upto 1000 metres, trimming bottom and side slopes in accordance with requirements of lines, grades and cross- sections as per Technical Specification Clause 302.3.5					
		(A) Manual Means					
		Unit = cum					
		Taking output = 1 cum					
		a) Labour					
		Mate	day	-			
		Mazdoor (Unskilled)	day	1.100			
		Chiseller (Hammer Man)	day	1.500			
		Blacksmith	day	0.060			
		b) Machinery					
		Tipper 5.5 cum capacity, 1 trip per hour	hour	0.180			
		Credit for excavated rock found suitable for use @ 50 per cent of excavated quantity	cum	0.500			
		Sundries on Labour					
	c&d) Overheads & Contractors Profit						
	Rate per cum = (a+b+c+d)						
	Note : 1. Credit is considered for 50 per cent of quantity of work.						
	2. Loading for disposal will be done manually, being small quantity.						
	3. In case some rock is issued to contractor at site, the item of carriage shall be omitted to the extent of quantity issued to the Contractor.						

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
	(B)	Mechanical Means					
		Unit = cum					
		Taking output = 1 cum					
		a) Labour					
		Mate	day	-			
		Mazdoor (Unskilled)	day	0.289			
		b) Machinery					
		Hydraulic excavator 0.9 cum with rock breaker attachment @ 6 cum per hour	hour	0.167			
		Tipper 5.5 cum capacity tipper, 1 trip per hour	hour	0.180			
		Credit for excavated rock found suitable for use @ 50 per cent of excavated quantity	cum	0.500			
		Sundries on Labour					
		c&d) Overheads & Contractors Profit					
		Rate per cum = (a+b+c+d)					
		Note : 1. The quality and availability of rock shall be checked before affording					
		2. In case some rock is issued to the contractor at site, the item of carriage shall be restricted/reduced to that extent.					
		3. Being small quantity, manual loading will be economical in this case and has been provided accordingly.					
PHE-LUSS-34	34	Loading or Unloading materials such as C.I / D.I Pipes, R.C.C. Pipes, P.V.C. pipes, A.C. Pressure pipes and Specials less than 300 mm upto 4 mts in length including stacking.					
	i	C.I Pipes and Specials (load per truck =6.50 T)					
		Taking Output = 13.00 MT (Load for each Truck 6.5 MT)					
		a) Labour					
		Man Mazdoor	day	6.000			
		Add sundries at 1% towards Nylon rope, Tyres etc		1%			
		Overheads & Contractors Profit					
		Cost for 13 MT					
		Rate per MT					
	ii	RCC Pipes and Collars (load per truck =7.205 T)					
		Taking Output = 14.41 MT					
		a) Labour					
		Man Mazdoor	day	6.000			
		Add sundries at 1% towards Nylon rope, Tyres etc		1%			
		Overheads & Contractors Profit					
		Cost for 14.41 MT					
		Rate per MT					
	iii	AC Pipes and Collars (load per truck = 5.40 T)					
		Taking Output = 10.8 MT					
		a) Labour					
		Man Mazdoor	day	6.000			
		Add sundries at 1% towards Nylon rope, Tyres etc		1%			
		Overheads & Contractors Profit					
		Cost for 10.8 MT					
		Rate per MT					
	iv	Stone ware pipes (load per truck = 5.40 T)					
		Taking Output = 10.8 MT					
		a) Labour					
		Man Mazdoor	day	6.000			
		Add sundries at 1% towards Nylon rope, Tyres etc		1%			
		Overheads & Contractors Profit					
		Cost for 10.8 MT					
		Rate per MT					

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
PHE-LUMS-35	35	Loading or unloading materials such as C.I / D.I. Pipes, stone ware pipes, R.C.C. pipes, A.C. Pressure pipes and specials from 300 mm to 600 mm dia upto 4 mts in length including stacking.					
	i	C.I. / D.I. Pipes (load per truck = 5.5 T)					
		Taking Output = 11 MT					
		a) Labour					
		Man Mazdoor	day	6.000			
		Add sundries at 1% towards Nylon rope, Tyres etc		1%			
		Overheads & Contractors Profit					
		Cost for 11 MT					
		Rate per MT					
		ii	RCC Pipes and Collars (load per truck =5.75 T)				
		Taking Output = 11.5 MT					
		a) Labour					
		Man Mazdoor	day	6.000			
		Add sundries at 1% towards Nylon rope, Tyres etc		1%			
		Overheads & Contractors Profit					
		Cost for 11.5 MT					
		Rate per MT					
	iii	AC Pipes					
	Taking Output = 1MT						
	a) Labour						
	Man Mazdoor	day	0.700				
	Add sundries at 1% towards Nylon rope, Tyres etc		1%				
	Overheads & Contractors Profit						
	Cost for MT						
	iv	Stone ware pipes					
	Taking Output = 1MT						
	a) Labour						
	Man Mazdoor	day	0.700				
	Add sundries at 1% towards Nylon rope, Tyres etc		1%				
	Overheads & Contractors Profit						
	Cost for MT						
PHE-LUGS-36	36	Loading or unloading materials such as CI / DI Pipes, A.C. pressure pipes less than 300 mm dia above 4.00 M in length including stacking					
	i	C.I. / D.I. Pipes (load per truck = 8.46 T)					
		Taking Output = 1 MT					
		a) Labour					
		Man Mazdoor	day	0.710			
		Add sundries at 1% towards Nylon rope, Tyres etc		1%			
		Overheads & Contractors Profit					
	Cost for 1 MT						
	ii	AC Pipes (load per truck = 3.78 T)					
	Taking Output = 1MT						
	a) Labour						
	Man Mazdoor	day	0.790				
	Add sundries at 1% towards Nylon rope, Tyres etc		1%				
	Overheads & Contractors Profit						
	Cost for MT						
PHE-LUBS-37	37	Loading or Unloading materials such as C.I / D.I. Pipes, A.C. Pressure pipes from 300 to 600mm dia above 4.00 m including stacking					
	i	AC Pipes (load per truck = 4.3 T)					
		Taking Output = 1 MT					
		a) Labour					
		Man Mazdoor	day	0.714			
	Add sundries at 1% towards Nylon rope, Tyres etc		1%				
	Overheads & Contractors Profit						
	Cost for 1 MT						

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
PHE-CSRC-38	ii	C.I. Pipes (load per truck = 3.85 T)					
		Taking Output = 1MT					
		a) Labour					
		Man Mazdoor	day	0.780			
		Add sundries at 1% towards Nylon rope, Tyres etc		1%			
		Overheads & Contractors Profit					
		Cost for MT					
	38	Centering and scaffolding charges for R.C.C. members including all materials and labour charges for forming and dismantling					
	A	For R.C.C. Elevated Service Reservoir of Staging upto 40 Ft. below G.W.L.					
	i	Side wall straight surfaces:					
	Details cost for 15 M long and 1 M height wall						
	Surface area = 2 x 15 x 1 = 30 Sqm						
	a) Materials						
	i) Planks 33 mm thick						
	2 x 15 x 1 = 30.00 sqm						
	Add 5% wastage = 1.5						
	=31.50 sqm						
	31.50 x 0.038 = 1.197 Cum	cum	1.197				
	ii) Batters – 75 x 50 mm						
	2 x 13 x 0.075 x 0.05 = 0.095 cum	cum	0.095				
	iii) Ballies – 125 dia for strutting						
	ver 13 x 1.5 = 19.5						
	13 x 4.5 = 58.5						
	= 78.00						
	5% for wastage = 3.9						
	= 81.90						
	81.90 x π x 0.125 ² / 4 = 1.005 Cum	cum	1.005				
	Assuming that timber shall become unserviceable after being used for 5 times						
	Cost for 5 times						
	Rate per 1 time						
	b) Labour						
	Labour charges for assembling, erection, dismantling and						
	Carpenter 2 nd class	day	7.500				
	Man Mazdoor	day	6.000				
	Sundries for nails etc						
	Overheads & Contractors Profit						
	c) Cost for 30 Sqm						
	Rate per sqm =c/30						
	ii Side walls curved surfaces						
	Considering 4 M internal dia and 1 Meter depth. Consider 30 mm thick.						
	Surface area:						
	Outside – π x 4.40 x 1.00 = 13.83 Sqm						
	Inside area = π x 4 x 1 = 12.57 Sqm						
	= 26.40 Sqm						
	a) Materials						
	i) Planks 33 mm						
	26.40 x 0.038 = 1.003 cum						
	Extra & Wastage @ 20% = 0.201 cum						
	= 1.204 Cum	cum	1.204				
	ii) Hattens – 75 x 38 mm						
	Inside – 2 x 25 x 0.50 x 0.075 x 0.075 = 0.1406						
	Outside – 2 x 28 x 0.50 x 0.075 x 0.175 = 0.1575						
	= 0.2981						
	Add 5% wastage = 0.0149						
	= 0.3130 cum	cum	0.313				

Index-code	S No	Description	Unit	Quantity	Rate Rs	Amt Rs	PHE Remarks
	1	2	3	4	5	6	7
		iii) Ballion 125 mm dia					
		Inside – 25 x 1 = 25 m					
		Outside – 28 x 1 = 28 m					
		= 53.00 m					
		Add 5% wastage = 2.65 m					
		$55.65 \pi \times 0.125^2 = 0.68 \text{ cum}$	cum	0.680			
		Assuming that timber shall become unserviceable after being used for 5 times					
		Cost for 5 times					
		Rate per 1 time					
		b) Labour					
		Add labour charges for assembling, erection and dismantling etc., @ 1/6 cost of materia					
		c) Total					
		Overheads & Contractors Profit					
		c) Cost for 26.04 Sqm					
		Rate per sqm =c/26.04					
	B	For Ground level works					
	i	R.C.C. vertical wells of plane surface upto 3 meters height such as G.L. tanks clarifiers and sludge digester etc,					
		Rate per Sqm (as arrived in item A (i) above)					
	ii	R.C.C. Vertical walls of circular faces upto 3 meters height					
		Rate per Sqm (as arrived in item A (ii) above)					
PHE-HSSG-39	39	Hoisting of S.S. Girders in pump house etc.					
		Detail cost of S.S. Joist = 300 x 140 mm - 6 M long					
		Wt. 44.2 Kgs/M = 6 x 44.20 = 265.20 kgs					
		Tolerances @ 5% = 13.26 kgs					
		= 278.46 kgs					
		a) Labour					
		Labour for hoisting inn position:					
		Mason 2nd class	day	1.000			
		Man Mazdoor	day	2.750			
		Total					
		(b) Overheads & Contractors Profit					
		c) Cost for 278.46 Sqm					
		Rate per sqm =c/278.46					
		Cost for 50 Kg					
PHE-LCVS-40	40	Labour charges for fixing ventilating shafts in sewerage scheme complete with all accessories					
		Unit – Each					
		a) Labour					
		Mason 1 st class	day	0.150			
		Mason 2 nd class	day	0.350			
		Plumber 2 nd Class	day	0.600			
		Man Mazdoor	day	2.000			
		Overheads & Contractors Profit					
		Rate					