

**Office of the Engineering in Chief
Public Health Engineering Department
Chhattisgarh Naya Raipur**

Memo No. 254 /TS/E.In.C./PHED/2017-18,

New Raipur, Dated : 04.12.2017

Amendment No. 05/2017-18

The separate rates excluding Excise duty, Vat & Entry Tax for Chapter No. 3, 4, 6, 7, & 8 is hereby added from the date of amendment in unified schedule of rates (Part-I) for water supply, sewerage works enforce from Dated 07.02.2013 in C.G. P.H.E.D.

The Amendment No. – 01/2013-14 issued by this office letter no. 194/TS/E.In.C./PHED/Raipur for chapter no. – 05 will remained unchanged.

The Amendment No. – 04/2015-16 issued vide this office memo no. 09/TS/E.In.C./PHED/Raipur Dated 28.01.2016 issued & the amendment issued for chapter no. 3, 4, 6, 7 & 8 is here by cancelled where as the Amendment in chapter no. 17 – M.S. pipes, specials, fittings including fabrication & laying will remained unchanged.

**CHAPTER 3- CAST IRON SOCKET AND SPIGOT PIPES AND SPECIALS WITH
LEAD JOINTS**

S.No.	Particulars of Items	Unit	Rates (in Rs.)		
			LA Class	A Class	B Class
3.1	Providing, laying and jointing of following socket and spigot cast iron (Spun) Pipes including testing of joints, cost of pipes and jointing materials etc. complete. [socket & spigot cast iron (spun) pipes shall Conform to IS 1536 : 2001 and laying work shall Conform to IS 3114 : 1994, Pig lead shall Conform to IS 782:1978]				
	80mm diameter	RM	1086.00	1176.00	1261.00
	100mm diameter	RM	1323.00	1448.00	1545.00
	125mm diameter	RM	1667.00	1750.00	1924.00
	150mm diameter	RM	2022.00	2206.00	2376.00
	200mm diameter	RM	2948.00	3187.00	3443.00
	250mm diameter	RM	3951.00	4303.00	4605.00
	300mm diameter	RM	5084.00	5539.00	5979.00
	350mm diameter	RM	6377.00	6896.00	7464.00
	400mm diameter	RM	7765.00	8461.00	9122.00
	450mm diameter	RM	9551.00	9911.00	11260.00
	500mm diameter	RM	11143.00	12102.00	13075.00
	600mm diameter	RM	14990.00	16315.00	17652.00
	700mm diameter	RM	19269.00	20990.00	22665.00
	750mm diameter	RM	21573.00	23521.00	25513.00
	800mm diameter	RM	24197.00	26292.00	28440.00
	900mm diameter	RM	29415.00	32011.00	34669.00
	1000mm diameter	RM	35297.00	38461.00	41545.00
	1050mm diameter	RM	37634.00	45277.00	48662.00

3.3	Jointing of following socket & spigot cast iron (spun) pipes and specials class 'LA' 'A' and 'B' including labour & cost of jointing materials (i.e. pig lead and spun yarn) etc. and testing of the joints complete. [Caulking lead shall Conform to IS 782 : 1978]				
	80mm diameter	Each	273.00		
	100mm diameter	Each	341.00		
	125mm diameter	Each	408.00		
	150mm diameter	Each	488.00		
	200mm diameter	Each	693.00		
	250mm diameter	Each	852.00		
	300mm diameter	Each	1012.00		
	350mm diameter	Each	1141.00		
	400mm diameter	Each	1348.00		
	450mm diameter	Each	1821.00		
	500mm diameter	Each	1946.00		
	600mm diameter	Each	2503.00		
	700mm diameter	Each	2848.00		
	750mm diameter	Each	3194.00		
	800mm diameter	Each	3834.00		
	900mm diameter	Each	4340.00		
	1000mm diameter	Each	4995.00		
	1050mm diameter	Each	5332.00		
3.5	Providing and laying in position double socket cast iron 90° bend. [Conforming to IS 1538 - 1993 , IS 3114 : 1994		Medium Class	Heavy Class	
	80mm diameter	Each	NA	1381.00	
	100mm diameter	Each	1764.00	1841.00	
	125mm diameter	Each	2378.00	2531.00	
	150mm diameter	Each	3145.00	3298.00	
	200mm diameter	Each	4832.00	5139.00	
	250mm diameter	Each	6980.00	7517.00	
	300mm diameter	Each	9588.00	10355.00	
	350mm diameter	Each	12287.00	13317.00	
	400mm diameter	Each	15819.00	17217.00	
	450mm diameter	Each	19498.00	21337.00	
	500mm diameter	Each	24869.00	27223.00	
	600mm diameter	Each	36494.00	40173.00	
	700mm diameter	Each	51283.00	56654.00	
	750mm diameter	Each	59744.00	66145.00	
	800mm diameter	Each	73912.00	81977.00	
	900mm diameter	Each	97636.00	108754.00	
	1000mm diameter	Each	125040.00	139368.00	
	1100mm diameter	Each	158238.00	175854.00	
	1200mm diameter	Each	196681.00	218605.00	
3.6	Providing and laying in position 45° bend double socket cast iron. [Conforming to IS 1538 -1993 , IS 3114 : 1994]		Medium Class	Heavy Class	
	80mm diameter	Each	NA	1381.00	




	100mm diameter	Each	1764.00	1841.00	
	125mm diameter	Each	2301.00	2455.00	
	150mm diameter	Each	2991.00	3145.00	
	200mm diameter	Each	4449.00	4756.00	
	250mm diameter	Each	6366.00	6827.00	
	300mm diameter	Each	8668.00	9281.00	
	350mm diameter	Each	10889.00	11699.00	
	400mm diameter	Each	13832.00	14862.00	
	450mm diameter	Each	16849.00	18247.00	
	500mm diameter	Each	21116.00	22809.00	
	600mm diameter	Each	30313.00	32962.00	
	700mm diameter	Each	41791.00	45544.00	
	750mm diameter	Each	48192.00	52681.00	
	800mm diameter	Each	59192.00	64751.00	
	900mm diameter	Each	76731.00	84326.00	
	1000mm diameter	Each	97323.00	107110.00	
	1100mm diameter	Each	121282.00	133574.00	
	1200mm diameter	Each	149547.00	164345.00	
3.7	Providing and laying in position double socket cast iron 22½° bend. [Conforming to IS 1538 - 1993 , IS 3114 : 1994]		Medium Class	Heavy Class	
	80mm diameter	Each	NA	1227.00	
	100mm diameter	Each	1534.00	1611.00	
	125mm diameter	Each	1994.00	2071.00	
	150mm diameter	Each	2608.00	2685.00	
	200mm diameter	Each	3912.00	4065.00	
	250mm diameter	Each	5523.00	5753.00	
	300mm diameter	Each	7287.00	7670.00	
	350mm diameter	Each	9050.00	9565.00	
	400mm diameter	Each	11404.00	12067.00	
	450mm diameter	Each	13685.00	14495.00	
	500mm diameter	Each	17070.00	18100.00	
	600mm diameter	Each	24207.00	25825.00	
	700mm diameter	Each	32815.00	35169.00	
	750mm diameter	Each	38039.00	40541.00	
	800mm diameter	Each	46038.00	49484.00	
	900mm diameter	Each	59036.00	63655.00	
	1000mm diameter	Each	74225.00	80176.00	
	1100mm diameter	Each	94582.00	99202.00	
	1200mm diameter	Each	115175.00	121125.00	
3.8	Providing and laying in position double socket cast iron 11¼° bend. [Conforming to IS 1538 - 1993 , IS 3114 : 1994]		Medium Class	Heavy Class	
	80mm diameter	Each	1074.00	1151.00	
	100mm diameter	Each	1381.00	1457.00	
	125mm diameter	Each	1841.00	1918.00	
	150mm diameter	Each	2378.00	2455.00	
	200mm diameter	Each	3528.00	3682.00	
	250mm diameter	Each	4986.00	5139.00	
	300mm diameter	Each	6597.00	6827.00	
	350mm diameter	Each	8093.00	8461.00	

	400mm diameter	Each	10154.00	10595.00	
	450mm diameter	Each	12067.00	12655.00	
	500mm diameter	Each	15083.00	15819.00	
	600mm diameter	Each	21116.00	22220.00	
	700mm diameter	Each	28400.00	30019.00	
	750mm diameter	Each	32594.00	34507.00	
	800mm diameter	Each	39227.00	41810.00	
	900mm diameter	Each	50188.00	53398.00	
	1000mm diameter	Each	62637.00	66709.00	
	1100mm diameter	Each	77279.00	81977.00	
	1200mm diameter	Each	93799.00	99437.00	
3.9	Providing and laying in position all socket cast iron Tees (all sizes in Millimetres) Body x Branch Dia. [Conforming to IS 1538 -1993 , IS 3114 : 1994]		Medium Class	Heavy Class	
	80x80	Each	1483.00	1551.00	
	100x80	Each	1820.00	1888.00	
	100x100	Each	1955.00	2022.00	
	125x80	Each	2292.00	2427.00	
	125x100	Each	2427.00	2562.00	
	125x125	Each	2629.00	2764.00	
	150x80	Each	2899.00	3034.00	
	150x100	Each	3034.00	3169.00	
	150x125	Each	3169.00	3371.00	
	150x150	Each	3371.00	3573.00	
	200x80	Each	4247.00	4517.00	
	200x100	Each	4382.00	4652.00	
	200x125	Each	4517.00	4787.00	
	200x150	Each	4719.00	4989.00	
	200x200	Each	5191.00	5461.00	
	250x80	Each	5933.00	6337.00	
	250x100	Each	6067.00	6472.00	
	250x125	Each	6270.00	6674.00	
	250x150	Each	6472.00	6876.00	
	250x200	Each	6876.00	7281.00	
	250x250	Each	7348.00	7820.00	
	300x80	Each	8023.00	8629.00	
	300x100	Each	8090.00	8697.00	
	300x125	Each	8292.00	8899.00	
	300x150	Each	8427.00	9034.00	
	300x200	Each	8966.00	9573.00	
	300x250	Each	9438.00	10112.00	
	300x300	Each	10045.00	10719.00	
	350x200	Each	12434.00	13391.00	

	350x250	Each	13023.00	13979.00	
	350x300	Each	13685.00	14642.00	
	350x350	Each	14347.00	15377.00	
	400x200	Each	15598.00	16849.00	
	400x250	Each	16187.00	17438.00	
	400x300	Each	16775.00	18100.00	
	400x350	Each	17511.00	18836.00	
	400x400	Each	18394.00	19718.00	
	450x250	Each	20160.00	21705.00	
	450x300	Each	20822.00	22367.00	
	450x350	Each	21558.00	23103.00	
	450x400	Each	22294.00	23839.00	
	450x450	Each	23177.00	24795.00	
	500x250	Each	24059.00	26193.00	
	500x300	Each	24722.00	26855.00	
	500x350	Each	25457.00	27591.00	
	500x400	Each	26193.00	28400.00	
	500x450	Each	27076.00	29283.00	
	500x500	Each	28106.00	30387.00	
	600x300	Each	35022.00	38333.00	
	600x350	Each	35758.00	39069.00	
	600x400	Each	36641.00	39952.00	
	600x450	Each	37524.00	40908.00	
	600x500	Each	38480.00	41865.00	
	600x600	Each	40761.00	44293.00	
	700x350	Each	49149.00	53637.00	
	700x400	Each	50032.00	54594.00	
	700x450	Each	50988.00	55624.00	
	700x500	Each	51945.00	56580.00	
	700x600	Each	53931.00	58493.00	
	700x700	Each	56507.00	61215.00	
	750x400	Each	57463.00	62908.00	
	750x450	Each	58493.00	63938.00	
	750x500	Each	59523.00	65041.00	
	750x600	Each	61510.00	67028.00	
	750x700	Each	63791.00	69309.00	
	750x750	Each	65409.00	71001.00	
	800x400	Each	70154.00	76887.00	
	800x450	Each	71172.00	77984.00	
	800x500	Each	72268.00	79080.00	
	800x600	Each	74617.00	81429.00	
	800x700	Each	77044.00	83934.00	
	800x750	Each	78297.00	85265.00	
	800x800	Each	80176.00	87223.00	

	900x450	Each	91607.00	100846.00	
	900x500	Each	92703.00	101942.00	
	900x600	Each	95287.00	104683.00	
	900x700	Each	97949.00	107345.00	
	900x750	Each	99202.00	108676.00	
	900x800	Each	100611.00	110007.00	
	900x900	Each	104213.00	113765.00	
	1000x500	Each	116897.00	129033.00	
	1000x600	Each	119403.00	131617.00	
	1000x700	Each	122534.00	134905.00	
	1000x750	Each	123865.00	136315.00	
	1000x800	Each	125353.00	137724.00	
	1000x900	Each	128328.00	140699.00	
	1000x1000	Each	132556.00	145006.00	
	1100x600	Each	151034.00	163249.00	
	1100x700	Each	154245.00	166459.00	
	1100x750	Each	156045.00	168260.00	
	1100x800	Each	157768.00	169982.00	
	1100x900	Each	160822.00	173036.00	
	1100x1000	Each	164188.00	176403.00	
	1100x1100	Each	169121.00	181335.00	
	1200x600	Each	188225.00	200361.00	
	1200x700	Each	191201.00	203337.00	
	1200x750	Each	193001.00	205137.00	
	1200x800	Each	194959.00	207095.00	
	1200x900	Each	198717.00	210853.00	
	1200x1000	Each	202162.00	214298.00	
	1200x1100	Each	205686.00	217822.00	
	1200x1200	Each	211323.00	223459.00	
3.10	Providing and laying in position all socketed cast iron crosses (all sizes in millimetre). [Conforming to IS 1538 - 1993 , IS 3114 : 1994]		Medium Class	Heavy Class	
	80	Each	1837.00	1837.00	
	100	Each	2388.00	2388.00	
	125	Each	3184.00	3184.00	
	150	Each	4103.00	4103.00	
	200	Each	6246.00	6246.00	
	250	Each	8879.00	8879.00	
	300	Each	12063.00	12063.00	
3.11	Providing and laying in position socket & spigot cast iron tapers (Reducer) (all sizes in mm). [Conforming to IS 1538 - 1993 , IS 3114 : 1994]		Medium Class	Heavy Class	
	100x80	Each	1011.00	1079.00	
	125x80	Each	1348.00	1416.00	
	125x100	Each	1416.00	1551.00	

	150x80	Each	1685.00	1820.00	
	150x100	Each	1753.00	1888.00	
	150x125	Each	1888.00	2090.00	
	200x100	Each	2494.00	2697.00	
	200x125	Each	2629.00	2831.00	
	200x150	Each	2831.00	3034.00	
	250x125	Each	3573.00	3775.00	
	250x150	Each	3708.00	3978.00	
	250x200	Each	4112.00	4449.00	
	300x150	Each	4989.00	5393.00	
	300x200	Each	5461.00	5933.00	
	300x250	Each	5933.00	6539.00	
	350x200	Each	7196.00	7796.00	
	350x250	Each	7796.00	8470.00	
	350x300	Each	8395.00	9220.00	
	400x250	Each	9819.00	10719.00	
	400x300	Each	10569.00	11543.00	
	400x350	Each	11319.00	12443.00	
	450x350	Each	12668.00	13867.00	
	450x400	Each	13567.00	14916.00	
	500x350	Each	14542.00	15816.00	
	500x400	Each	15441.00	16865.00	
	500x450	Each	16416.00	17990.00	
	600x400	Each	20613.00	22487.00	
	600x450	Each	21663.00	23686.00	
	600x500	Each	22787.00	24961.00	
	700x500	Each	27359.00	29833.00	
	700x600	Each	29908.00	32756.00	
	750x600	Each	33656.00	36879.00	
	750x700	Each	36729.00	40402.00	
	800x600	Each	35011.00	38259.00	
	800x700	Each	37898.00	41652.00	
	800x750	Each	39559.00	43529.00	
	900x700	Each	45334.00	49520.00	
	900x750	Each	46994.00	53563.00	
	900x800	Each	48726.00	51470.00	
	1000x800	Each	55295.00	60421.00	
	1000x900	Each	59049.00	64824.00	

	1100x900	Each	67279.00	73054.00	
	1100x1000	Each	68794.00	74569.00	
	1200x900	Each	76807.00	82582.00	
	1200x1000	Each	78251.00	84026.00	
	1200x1100	Each	79695.00	85759.00	
3.12	Providing and laying in position Double Socket cast iron tapers (reducer) (all sizes in mm). [Conforming to IS 1538 - 1993 , IS 3114 : 1994]		Medium Class	Heavy Class	
	100x80	Each	1011.00	1214.00	
	125x80	Each	1348.00	1820.00	
	125x100	Each	1416.00	2023.00	
	150x80	Each	1685.00	2090.00	
	150x100	Each	1753.00	2292.00	
	150x125	Each	1888.00	2562.00	
	200x100	Each	2494.00	2899.00	
	200x125	Each	2629.00	3169.00	
	200x150	Each	2832.00	3438.00	
	250x125	Each	3573.00	3910.00	
	250x150	Each	3708.00	4180.00	
	250x200	Each	4113.00	4854.00	
	300x150	Each	4989.00	5056.00	
	300x200	Each	5461.00	5663.00	
	300x250	Each	5933.00	6405.00	
	350x200	Each	7195.00	8769.00	
	350x250	Each	7795.00	9819.00	
	350x300	Each	8395.00	10943.00	
	400x250	Each	9819.00	11168.00	
	400x300	Each	10568.00	12292.00	
	400x350	Each	11318.00	13566.00	
	450x350	Each	12667.00	14616.00	
	450x400	Each	13566.00	15965.00	
	500x350	Each	14541.00	16639.00	
	500x400	Each	15440.00	18063.00	
	500x450	Each	16415.00	19188.00	
	600x400	Each	20612.00	22486.00	
	600x450	Each	21661.00	23235.00	
	600x500	Each	22785.00	24884.00	

	700x500	Each	27358.00	29081.00	
	700x600	Each	29906.00	32754.00	
	750x600	Each	33654.00	35228.00	
	750x700	Each	36727.00	39125.00	
	800x600	Each	32917.00	36166.00	
	800x700	Each	36455.00	40208.00	
	800x750	Each	38620.00	42591.00	
	900x700	Each	41219.00	45406.00	
	900x750	Each	43529.00	50098.00	
	900x800	Each	47210.00	49954.00	
	1000x800	Each	50603.00	55729.00	
	1000x900	Each	55079.00	60854.00	
	1100x900	Each	63308.00	69083.00	
	1100x1000	Each	64824.00	70599.00	
	1200x900	Each	72548.00	78612.00	
	1200x1000	Each	74281.00	80056.00	
	1200x1100	Each	76085.00	81860.00	
3.13	Providing and laying in position cast iron collars. [Conforming to IS 1538 - 1993 , IS 3114 : 1994]		Medium Class	Heavy Class	
	80mm diameter	Each	875.00	942.00	
	100mm diameter	Each	1077.00	1144.00	
	125mm diameter	Each	1414.00	1481.00	
	150mm diameter	Each	1817.00	1885.00	
	200mm diameter	Each	2558.00	2692.00	
	250mm diameter	Each	3500.00	3702.00	
	300mm diameter	Each	4577.00	4779.00	
	350mm diameter	Each	6208.00	6497.00	
	400mm diameter	Each	7435.00	7940.00	
	450mm diameter	Each	9167.00	9600.00	
	500mm diameter	Each	10900.00	11477.00	
	600mm diameter	Each	14798.00	15592.00	
	700mm diameter	Each	19417.00	20428.00	
	750mm diameter	Each	21944.00	23099.00	
	800mm diameter	Each	26224.00	27686.00	
	900mm diameter	Each	32607.00	34453.00	
	1000mm diameter	Each	39836.00	42067.00	
	1100mm diameter	Each	48065.00	50372.00	
	1200mm diameter	Each	57601.00	59908.00	
3.14	Providing and laying in position cast iron socket caps. [Conforming to IS 1538 - 1993 , IS 3114 : 1994]			Heavy Class	
	80mm diameter	Each		472.00	

	100mm diameter	Each		607.00	
	125mm diameter	Each		809.00	
	150mm diameter	Each		1011.00	
	200mm diameter	Each		1618.00	
	250mm diameter	Each		2292.00	
	300mm diameter	Each		3101.00	
	350mm diameter	Each		4572.00	
	400mm diameter	Each		5772.00	
	450mm diameter	Each		7271.00	
	500mm diameter	Each		8845.00	
	600mm diameter	Each		12818.00	
	700mm diameter	Each		17615.00	
	750mm diameter	Each		20388.00	
	800mm diameter	Each		24648.00	
	900mm diameter	Each		31791.00	
	1000mm diameter	Each		40348.00	
	1100mm diameter	Each		50081.00	
	1200mm diameter	Each		61071.00	
3.15	Providing and laying in position cast iron plugs. [Conforming to IS 1538 -1993 , IS 3114 : 1994]		Medium Class	Heavy Class	
	80mm diameter	Each	128.00	191.00	
	100mm diameter	Each	191.00	255.00	
	125mm diameter	Each	319.00	383.00	
	150mm diameter	Each	510.00	574.00	
	200mm diameter	Each	829.00	893.00	
	250mm diameter	Each	1275.00	1403.00	
	300mm diameter	Each	1786.00	1913.00	
	350mm diameter	Each	2683.00	2895.00	
	400mm diameter	Each	3601.00	3813.00	
	450mm diameter	Each	4590.00	4872.00	
	500mm diameter	Each	5720.00	6073.00	
	600mm diameter	Each	8474.00	8968.00	
	700mm diameter	Each	12075.00	12711.00	
	750mm diameter	Each	14193.00	14900.00	
	800mm diameter	Each	17704.00	18532.00	
	900mm diameter	Each	23128.00	24182.00	
	1000mm diameter	Each	29682.00	30963.00	
	1100mm diameter	Each	37517.00	39023.00	
	1200mm diameter	Each	46331.00	47988.00	
3.16	Providing and laying in position sizes of socket & spigot or all socketed cast iron specials class MEDIUM or HEAVY which do not appear in above items of schedule. [Conforming to IS 1538 - 1993 , IS 3114 : 1994]		Medium Class	Heavy Class	
	80mm to 300mm dia	Kg	70.00	70.00	
	Above 300mm Dia	Kg	74.00	74.00	

S.No.	Particulars of Items	Unit	Rates (in Rs.)		
4.1	Providing, laying and jointing cast iron tyton pipes with tyton joints including testing of joints, cost of pipes and jointing materials etc complete. [Cast iron (tyton) pipes shall Conform to IS 1536 : 2001 and rubber sealing rings shall Conform to IS 5382:1985)		LA Class	A Class	B Class
	80mm diameter	RM	1036.00	1120.00	1210.00
	100mm diameter	RM	1259.00	1383.00	1480.00
	125mm diameter	RM	1591.00	1673.00	1846.00
	150mm diameter	RM	1932.00	2115.00	2284.00
	200mm diameter	RM	2818.00	3055.00	3309.00
	250mm diameter	RM	3793.00	4142.00	4442.00
	300mm diameter	RM	4893.00	5344.00	5780.00
	350mm diameter	RM	6156.00	6671.00	7233.00
	400mm diameter	RM	7507.00	8197.00	8852.00
	450mm diameter	RM	9190.00	9547.00	10884.00
	500mm diameter	RM	10763.00	11713.00	12678.00
	600mm diameter	RM	14486.00	15800.00	17125.00
	700mm diameter	RM	18698.00	20404.00	22065.00
	750mm diameter	RM	20936.00	22867.00	24842.00
	800mm diameter	RM	23431.00	25507.00	27637.00
	900mm diameter	RM	28523.00	31097.00	33732.00
	1000mm diameter	RM	34279.00	37415.00	40472.00
	1050mm diameter	RM	37112.00	40616.00	43973.00
4.3	Jointing of tyton pipes of class 'LA' 'A' and 'B' including testing of joints and cost of jointing materials (i.e. Rubber Gasket and Soap solution etc.). [Conform to IS 5382: 1985]				
	80mm diameter	Each	72.00		
	100mm diameter	Each	80.00		
	125mm diameter	Each	98.00		
	150mm diameter	Each	126.00		
	200mm diameter	Each	166.00		
	250mm diameter	Each	229.00		
	300mm diameter	Each	269.00		
	350mm diameter	Each	304.00		
	400mm diameter	Each	385.00		
	450mm diameter	Each	417.00		
	500mm diameter	Each	516.00		
	600mm diameter	Each	616.00		
	700mm diameter	Each	810.00		
	750mm diameter	Each	924.00		
	800mm diameter	Each	1026.00		
	900mm diameter	Each	1130.00		
	1000mm diameter	Each	1404.00		
	1050mm diameter	Each	1510.00		

CHAPTER 6 - DUCTILE IRON PRESSURE PIPES AND SPECIAL WITH TYTON JOINTS

S. No.	Particulars of Items	Unit	Rate (in Rs.)
6.1	Providing, laying and jointing socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-7) Conforming to IS 8329/2000 with suitable Rubber Gasket (Push on) joints as per IS:5382/85 including testing of joint (laying Conforming to IS 12288 : 1987)		
	80mm diameter	RM	678.00
	100mm diameter	RM	651.00
	150mm diameter	RM	868.00
	200mm diameter	RM	1512.00
	250mm diameter	RM	1998.00
	300mm diameter	RM	2474.00
	350mm diameter	RM	3146.00
	400mm diameter	RM	4023.00
	450mm diameter	RM	4686.00
	500mm diameter	RM	5466.00
	600mm diameter	RM	6869.00
	700mm diameter	RM	9985.00
	750mm diameter	RM	11618.00
	800mm diameter	RM	13020.00
	900mm diameter	RM	15886.00
	1000mm diameter	RM	19079.00
	1100mm diameter	RM	20666.00
	1200mm diameter	RM	22215.00
	1400mm diameter	RM	23800.00
6.3	Providing, laying and jointing socket & spigot centrifugally cast (Spun) Ductile Iron pressure pipes with inside cement mortar lining (class K-9) Conforming to IS 8329/2000 with suitable Rubber Gasket (Push on) joints as per IS:5382/85 including testing of joint (laying Conforming to IS 12288 : 1987)		
	80mm diameter	RM	758.00
	100mm diameter	RM	861.00
	150mm diameter	RM	1277.00
	200mm diameter	RM	1777.00
	250mm diameter	RM	2361.00
	300mm diameter	RM	3005.00
	350mm diameter	RM	4097.00
	400mm diameter	RM	4555.00
	450mm diameter	RM	5714.00
	500mm diameter	RM	6791.00
	600mm diameter	RM	8916.00
	700mm diameter	RM	11568.00
	750mm diameter	RM	12948.00
	800mm diameter	RM	14186.00
	900mm diameter	RM	17343.00
	1000mm diameter	RM	20421.00

	1100mm diameter	RM	23456.00
	1200mm diameter	RM	26449.00
	1400mm diameter	RM	29492.00
6.5	Providing rubber ISI marked gasket (push on) joints to DI class k-7, k-8 and k-9 pipes & DI specials including testing of joints and cost of jointing materials (rubber ISI marked Gasket (push on) joint as per IS-5382/85 and soap solution etc.)		
	80mm diameter	Each	70.00
	100mm diameter	Each	72.00
	150mm diameter	Each	109.00
	200mm diameter	Each	151.00
	250mm diameter	Each	200.00
	300mm diameter	Each	251.00
	350mm diameter	Each	287.00
	400mm diameter	Each	360.00
	450mm diameter	Each	397.00
	500mm diameter	Each	495.00
	600mm diameter	Each	598.00
	700mm diameter	Each	794.00
	750mm diameter	Each	905.00
	800mm diameter	Each	1012.00
	900mm diameter	Each	1108.00
	1000mm diameter	Each	1390.00
	1100mm diameter	Each	1501.00
	1200mm diameter	Each	1433.00
	1400mm diameter	Each	1500.00
6.7	Providing and Laying ductile iron PN-1.6 type flanged sockets Conforming to IS-9523/2000 having dimension as per table 23 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS-9523/2000. (laying Conforming to IS 12288 : 1987)		
	80mm	Each	510.00
	100mm	Each	576.00
	150mm	Each	887.00
	200mm	Each	1260.00
	250mm	Each	1642.00
	300mm	Each	2213.00
	350mm	Each	3783.00
	400mm	Each	4630.00
	450mm	Each	5728.00
	500mm	Each	7065.00
	600mm	Each	11372.00
	700mm	Each	17134.00
	750mm	Each	19390.00
	800mm	Each	22769.00
	900mm	Each	28013.00
	1000mm	Each	37272.00
	1100mm	Each	41183.00

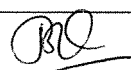
	1200mm	Each	43175.00
	1400mm	Each	45466.00
6.9	Providing and Laying ductile iron PN-1.6 type flanged spigot Conforming to IS-9523/2000 having dimension as per table 24 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS-9523/2000. (laying Conforming to IS 12288 : 1987)		
	80mm	Each	510.00
	100mm	Each	635.00
	150mm	Each	1010.00
	200mm	Each	1443.00
	250mm	Each	2009.00
	300mm	Each	2698.00
	350mm	Each	4675.00
	400mm	Each	5930.00
	450mm	Each	7348.00
	500mm	Each	9167.00
	600mm	Each	13214.00
	700mm	Each	20681.00
	750mm	Each	23482.00
	800mm	Each	26256.00
	900mm	Each	31373.00
	1000mm	Each	39283.00
	1100mm	Each	47201.00
	1200mm	Each	55132.00
	1400mm	Each	65827.00
6.11	Providing & laying Ductile iron Mechanical joint collar with follower glands Conforming to IS-9523/2000 having dimension as per table 24 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying Conforming to IS 12288 : 1987)		
	80mm	Each	981.00
	100mm	Each	1192.00
	150mm	Each	2001.00
	200mm	Each	2506.00
	250mm	Each	3793.00
	300mm	Each	4454.00
	350mm	Each	7635.00
	400mm	Each	9387.00
	450mm	Each	10793.00
	500mm	Each	12817.00
	600mm	Each	16217.00
	700mm	Each	30217.00
	750mm	Each	33861.00
	800mm	Each	38677.00

	900mm	Each	45220.00
	1000mm	Each	58521.00
	1100mm	Each	66569.00
	1200mm	Each	74642.00
	1400mm	Each	85667.00
6.13	Providing & Laying Ductile Iron Double Socket 90° Bends Conforming to IS-9523/2000 having dimension as per table 15 of IS-9523/2000 in the following nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying Conforming to IS 12288 : 1987)		
	80mm	Each	525.00
	100mm	Each	642.00
	125mm	Each	876.00
	150 mm	Each	1168.00
	200mm	Each	1868.00
	250mm	Each	2633.00
	300mm	Each	3800.00
	350mm	Each	6973.00
	400mm	Each	8998.00
	450mm	Each	11833.00
	500mm	Each	14668.00
	600mm	Each	22761.00
	700mm	Each	39741.00
	750mm	Each	45933.00
	800mm	Each	55138.00
	900mm	Each	72992.00
	1000mm	Each	96733.00
	1100mm	Each	105012.00
	1200mm	Each	113310.00
	1400mm	Each	124697.00
6.15	Providing & Laying Ductile Iron Double Socket 45° Bends Conforming to IS-9523/2000 having dimension as per table 16 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying Conforming to IS 12288 : 1987)		
	80mm	Each	467.00
	100mm	Each	584.00
	125mm	Each	759.00
	150 mm	Each	934.00
	200mm	Each	1522.00
	250mm	Each	2045.00
	300mm	Each	2862.00
	350mm	Each	5186.00
	400mm	Each	6489.00
	450mm	Each	8593.00
	500mm	Each	10381.00
	600mm	Each	16038.00
	700mm	Each	27411.00

	750mm	Each	31102.00
	800mm	Each	37391.00
	900mm	Each	49010.00
	1000mm	Each	65110.00
	1100mm	Each	73172.00
	1200mm	Each	81248.00
	1400mm	Each	92245.00
6.17	Providing & Laying Ductile Iron Double Socket 22.5° Bends Conforming to IS-9523/2000 having dimension as per table 17 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying Conforming to IS 12288 : 1987)		
	80mm	Each	409.00
	100mm	Each	525.00
	125mm	Each	701.00
	150 mm	Each	876.00
	200mm	Each	1345.00
	250mm	Each	1755.00
	300mm	Each	2456.00
	350mm	Each	4295.00
	400mm	Each	5353.00
	450mm	Each	6887.00
	500mm	Each	8343.00
	600mm	Each	12798.00
	700mm	Each	21166.00
	750mm	Each	23623.00
	800mm	Each	28626.00
	900mm	Each	35997.00
	1000mm	Each	46400.00
	1100mm	Each	54432.00
	1200mm	Each	62482.00
	1400mm	Each	73388.00
6.19	Providing & Laying Ductile Iron Double Socket 11.25° bends Conforming to IS-9523/2000 having dimension as per table 18 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining. (laying Conforming to IS 12288 : 1987)		
	80mm	Each	409.00
	100mm	Each	525.00
	125mm	Each	642.00
	150 mm	Each	817.00
	200mm	Each	1226.00
	250mm	Each	1638.00
	300mm	Each	2222.00
	350mm	Each	3807.00
	400mm	Each	4698.00
	450mm	Each	6005.00
	500mm	Each	7132.00
	600mm	Each	10850.00
	700mm	Each	17435.00

	750mm	Each	19286.00
	800mm	Each	23783.00
	900mm	Each	29742.00
	1000mm	Each	38894.00
	1100mm	Each	46798.00
	1200mm	Each	54718.00
	1400mm	Each	65354.00
6.21	Providing & Laying Ductile Iron All socket Tees Conforming to IS-9523/2000 having dimension as per table 21 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS-9523/2000. (laying Conforming to IS 12288 : 1987) (All sizes in mm)		
	80x80 mm	Each	701.00
	100x80 mm	Each	818.00
	100x100 mm	Each	877.00
	150x80 mm	Each	1169.00
	150x100 mm	Each	1227.00
	150x150 mm	Each	1461.00
	200x80 mm	Each	1636.00
	200x100 mm	Each	1753.00
	200x150 mm	Each	1987.00
	200x200 mm	Each	2338.00
	250x80 mm	Each	2045.00
	250x100 mm	Each	2162.00
	250x150 mm	Each	2454.00
	250x200 mm	Each	2749.00
	250x250 mm	Each	3214.00
	300x100 mm	Each	2922.00
	300x200 mm	Each	3623.00
	300x300 mm	Each	4500.00
	350x80 mm	Each	4701.00
	350x100 mm	Each	4701.00
	350x150 mm	Each	5350.00
	350x200 mm	Each	5998.00
	350x250 mm	Each	6728.00
	350x300 mm	Each	7376.00
	350x350 mm	Each	8106.00
	400x80 mm	Each	5431.00
	400x100 mm	Each	5674.00
	400x150 mm	Each	6323.00
	400x200 mm	Each	7052.00
	400x250 mm	Each	8187.00
	400x300 mm	Each	8592.00

	400x350 mm	Each	9970.00
	400x400 mm	Each	10375.00
	450x100 mm	Each	7052.00
	450x200 mm	Each	9241.00
	450x250 mm	Each	9403.00
	450x300 mm	Each	10375.00
	450x350 mm	Each	12483.00
	450x400 mm	Each	12807.00
	450x450 mm	Each	13375.00
	500x100 mm	Each	8268.00
	500x150 mm	Each	9808.00
	500x200 mm	Each	9970.00
	500x350 mm	Each	13618.00
	500x400 mm	Each	13942.00
	500x500 mm	Each	16455.00
	600x150 mm	Each	13537.00
	600x200 mm	Each	13699.00
	600x300 mm	Each	17833.00
	600x400 mm	Each	18319.00
	600x500 mm	Each	22777.00
	600x600 mm	Each	24317.00
	700x150 mm	Each	21683.00
	700x200 mm	Each	22893.00
	700x250 mm	Each	22086.00
	700x300 mm	Each	28036.00
	700x400 mm	Each	28339.00
	700x700 mm	Each	40844.00
	750x400 mm	Each	66088.00
	750x750 mm	Each	46290.00
	800x200mm	Each	28339.00
	800x400 mm	Each	36104.00
	800x600 mm	Each	51937.00
	800x800 mm	Each	55971.00
	900x100 mm	Each	34692.00
	900x150 mm	Each	34894.00
	900x200 mm	Each	34995.00
	900x400 mm	Each	44172.00
	900x600 mm	Each	66762.00
	900x900 mm	Each	73116.00
	1000x200 mm	Each	44777.00
	1000x400 mm	Each	55467.00
	1000x600 mm	Each	86731.00
	1000x1000 mm	Each	95262.00

6.23	Providing & Laying Ductile Iron Double Socket branch flange Tee Conforming to IS-9523/2000 having dimension as per table 21 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS-9523/2000. (laying Conforming to IS 12288 : 1987) (All sizes in mm)		
	80x80	Each	821.00
	100x80	Each	947.00
	100x100	Each	1010.00
	150x80	Each	1326.00
	150x100	Each	1304.00
	150x150	Each	1705.00
	200x80	Each	1831.00
	200x100	Each	1957.00
	200x150	Each	2273.00
	200x200	Each	2652.00
	250x80	Each	2273.00
	250x100	Each	2399.00
	250x150	Each	2778.00
	250x200	Each	3220.00
	250x250	Each	3726.00
	300x80	Each	3031.00
	300x100	Each	3157.00
	300x150	Each	3599.00
	300x200	Each	4041.00
	300x250	Each	4610.00
	300x300	Each	5241.00
	350x100	Each	5033.00
	350x200	Each	6375.00
	350x350	Each	9059.00
	400x80	Each	5704.00
	400x100	Each	5955.00
	400x150	Each	6710.00
	400x200	Each	7465.00
	400x300	Each	9227.00
	400x400	Each	11659.00
	450x100	Each	7381.00
	450x250	Each	10065.00
	450x450	Each	10463.00
	500x100	Each	8639.00
	500x200	Each	10485.00
	500x400	Each	15350.00





	500x500	Each	18789.00
	600x200	Each	14343.00
	600x400	Each	27968.00
	600x600	Each	37246.00
	700x200	Each	32079.00
	700x400	Each	43811.00
	750 x 400	Each	49703.00
	750 x 750	Each	71626.00
	800x200	Each	44642.00
	800x400	Each	56584.00
	800x600	Each	78223.00
	800x800	Each	86411.00
	900x200	Each	52681.00
	900x400	Each	67764.00
	900x600	Each	97918.00
	900x900	Each	114262.00
	1000x200	Each	68981.00
	1000x400	Each	85789.00
	1000x600	Each	135612.00
	1000x1000	Each	150923.00
	1100x400	Each	103809.00
	1100x600	Each	172984.00
	1200x600	Each	210618.00
	1200x800	Each	248306.00
	1200x1000	Each	286042.00
	1400x600	Each	248417.00
	1400x800	Each	286108.00
	1400x1000	Each	323798.00

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6.25	Providing & Laying Ductile Iron Double Socket Reducer Conforming to IS-9523/2000 having dimension as per table 21 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS-9523/2000. (laying Conforming to IS 12288 : 1987) (All sizes in mm)		
	100x80	Each	468.00
	150x80	Each	761.00
	150x100	Each	761.00
	200x100	Each	1171.00
	200x150	Each	1175.00
	250x150	Each	1643.00
	250x200	Each	1833.00
	300x150	Each	2226.00
	300x200	Each	2226.00
	300x250	Each	2050.00
	350x200	Each	4061.00
	350x250	Each	3901.00
	350x300	Each	3661.00
	400x250	Each	5031.00
	400x300	Each	4869.00
	400x350	Each	4461.00
	450x350	Each	6001.00
	450x400	Each	5597.00
	500x350	Each	7551.00
	500x400	Each	7066.00
	600x400	Each	10931.00
	600x500	Each	9938.00
	700x500	Each	25812.00
	700x600	Each	23242.00
	750x500	Each	28944.00
	750x600	Each	26933.00
	800x600	Each	33759.00
	800x700	Each	30885.00

	900x700	Each	44065.00
	900x800	Each	39989.00
	1000x800	Each	55286.00
	1000x900	Each	51035.00
	1100x1000	Each	55587.00
	1200x1000	Each	60130.00
	1400x1000	Each	71471.00
6.27	Providing and Laying ductile iron PN-1.0 type flanged sockets Conforming to IS-9523/2000 having dimension as per table 23 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS-9523/2000. (laying Conforming to IS 12288 : 1987)		
	80mm	Each	458.00
	100mm	Each	518.00
	150mm	Each	802.00
	200mm	Each	1145.00
	250mm	Each	1489.00
	300mm	Each	2002.00
	350mm	Each	3414.00
	400mm	Each	4174.00
	450mm	Each	5145.00
	500mm	Each	6351.00
	600mm	Each	10259.00
	700mm	Each	15503.00
	750mm	Each	17570.00
	800mm	Each	20565.00
	900mm	Each	25367.00
	1000mm	Each	33763.00
	1100mm	Each	41743.00
	1200mm	Each	49741.00
	1400mm	Each	60570.00
6.29	Providing and Laying ductile iron PN-1.0 type flanged spigot Conforming to IS-9523/2000 having dimension as per table 24 of IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing as per clause 13 of IS-9523/2000. (laying Conforming to IS 12288 : 1987)		
	80mm	Each	459.00

	100mm	Each	574.00
	150mm	Each	919.00
	200mm	Each	1321.00
	250mm	Each	1837.00
	300mm	Each	2465.00
	350mm	Each	4254.00
	400mm	Each	5388.00
	450mm	Each	6676.00
	500mm	Each	8337.00
	600mm	Each	12044.00
	700mm	Each	18934.00
	750mm	Each	21419.00
	800mm	Each	23879.00
	900mm	Each	28638.00
	1000mm	Each	35814.00
	1100mm	Each	43772.00
	1200mm	Each	51737.00
	1400mm	Each	62476.00
6.31	Providing, Laying & Jointing of welded double flanged centrifugal cast (spun) ductile Iron pressure pipes Conforming to IS:8329/2000 in the length of 1m. for class K-9 with inside cement mortar lining for the sizes/dia pipes. (laying Conforming to IS 12288 : 1987)		
	80mm	Each	4788.00
	100mm	Each	5935.00
	125mm	Each	7161.00
	150mm	Each	8587.00
	200mm	Each	12006.00
	250mm	Each	16383.00
	300mm	Each	19684.00
	350mm	Each	24118.00
	400mm	Each	29045.00
	450mm	Each	35280.00
	500mm	Each	41414.00
	600mm	Each	51197.00
	700mm	Each	74157.00
	750mm	Each	84163.00
	800mm	Each	90945.00
	900mm	Each	109229.00
	1000mm	Each	165997.00
	1100mm	Each	228411.00
	1200mm	Each	317359.00
	1400mm	Each	504214.00

6.32	Providing, Laying & jointing of welded double flanged centrifugal cast (spun) ductile Iron pressure pipes Conforming to IS:8329/2000 in the length of 2m. for class K-9 with inside cement mortar, lining for the sizes/dia pipes. (laying Conforming to IS 12288 : 1987)		
	80mm	Each	6600.00
	100mm	Each	7427.00
	125mm	Each	8053.00
	150mm	Each	10678.00
	200mm	Each	14786.00
	250mm	Each	20100.00
	300mm	Each	24362.00
	350mm	Each	29650.00
	400mm	Each	35760.00
	450mm	Each	43234.00
	500mm	Each	51053.00
	600mm	Each	63761.00
	700mm	Each	90733.00
	750mm	Each	101841.00
	800mm	Each	110565.00
	900mm	Each	133688.00
	1000mm	Each	194598.00
	1100mm	Each	261322.00
	1200mm	Each	354806.00
	1400mm	Each	546232.00
6.33	Providing , Laying and Jointing of welded double flanged centrifugal cast (spun) ductile Iron pressure pipes Conforming to IS:8329/2000 in the length of 3m for class K-9 with inside cement mortar, lining for the sizes/dia pipes. (laying Conforming to IS 12288 : 1987)		
	80mm	Each	7378.00
	100mm	Each	8918.00
	125mm	Each	10685.00
	150mm	Each	12769.00
	200mm	Each	17578.00
	250mm	Each	23817.00
	300mm	Each	29050.00
	350mm	Each	35125.00
	400mm	Each	42419.00
	450mm	Each	51131.00
	500mm	Each	60805.00
	600mm	Each	76326.00
	700mm	Each	107419.00
	750mm	Each	120464.00
	800mm	Each	130996.00
	900mm	Each	158388.00
	1000mm	Each	223820.00
	1100mm	Each	315019.00
	1200mm	Each	399162.00
	1400mm	Each	589515.00

6.34	Providing, Laying and Jointing welded double flanged centrifugal cast (spun) ductile Iron pressure pipes Conforming to IS 8329/2000 in the length of 4m for class K-9 with inside cement mortar lining for the sizes/dia pipes. (laying Conforming to IS 12288 : 1987)		
	80mm	Each	8679.00
	100mm	Each	10426.00
	125mm	Each	12459.00
	150mm	Each	14865.00
	200mm	Each	20353.00
	250mm	Each	27540.00
	300mm	Each	33722.00
	350mm	Each	40685.00
	400mm	Each	49022.00
	450mm	Each	59028.00
	500mm	Each	70388.00
	600mm	Each	88974.00
	700mm	Each	124275.00
	750mm	Each	139021.00
	800mm	Each	151198.00
	900mm	Each	183135.00
	1000mm	Each	252801.00
	1100mm	Each	348344.00
	1200mm	Each	437294.00
	1400mm	Each	677563.00
6.35	Providing, Laying and Jointing welded double flanged centrifugal cast (spun) ductile Iron pressure pipes Conforming to IS:8329/2000 in the length of 4.5m. for class K-9 with inside cement mortar lining for the sizes/dia pipes. (laying Conforming to IS 12288 : 1987)		
	80mm	Each	9319.00
	100mm	Each	11172.00
	125mm	Each	13343.00
	150mm	Each	15916.00
	200mm	Each	21743.00
	250mm	Each	29404.00
	300mm	Each	36061.00
	350mm	Each	43451.00
	400mm	Each	52295.00
	450mm	Each	62977.00
	500mm	Each	75179.00
	600mm	Each	95341.00
	700mm	Each	132732.00
	750mm	Each	160134.00
	800mm	Each	161357.00
	900mm	Each	195456.00
	1000mm	Each	267301.00
	1100mm	Each	398027.00
	1200mm	Each	493876.00
	1400mm	Each	808674.00

6.36	Providing, Laying and Jointing welded double flanged centrifugal cast (spun) ductile Iron pressure pipes Conforming to IS:8329/2000 in the length of 5m. for class K-9 with inside cement mortar lining for the sizes/dia pipes. (laying Conforming to IS 12288 : 1987)		
	80mm	Each	9916.00
	100mm	Each	11937.00
	125mm	Each	14235.00
	150mm	Each	16964.00
	200mm	Each	23132.00
	250mm	Each	31276.00
	300mm	Each	38412.00
	350mm	Each	46294.00
	400mm	Each	55692.00
	450mm	Each	67022.00
	500mm	Each	80110.00
	600mm	Each	101836.00
	700mm	Each	141345.00
	750mm	Each	157791.00
	800mm	Each	171588.00
	900mm	Each	207999.00
	1000mm	Each	282000.00
	1100mm	Each	381816.00
	1200mm	Each	475798.00
	1400mm	Each	765876.00
6.37	Providing, Laying and Jointing of welded double flanged centrifugal cast (spun) ductile Iron pressure pipes Conforming to IS:8329/2000 in the length of 5.2m. for class K-9 with inside cement mortar lining for the sizes/dia pipes. (laying Conforming to IS 12288 : 1987)		
	80mm	Each	10368.00
	100mm	Each	12388.00
	125mm	Each	13120.00
	150mm	Each	17607.00
	200mm	Each	24006.00
	250mm	Each	32451.00
	300mm	Each	39860.00
	350mm	Each	48041.00
	400mm	Each	57789.00
	450mm	Each	69546.00
	500mm	Each	83140.00
	600mm	Each	105676.00
	700mm	Each	146684.00
	750mm	Each	163789.00
	800mm	Each	178082.00
	900mm	Each	216028.00
	1000mm	Each	292854.00
	1100mm	Each	405247.00
	1200mm	Each	502226.00
	1400mm	Each	826997.00

6.45	Providing & Laying Ductile Iron All Socketed crosses Conforming to IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing etc. complete as directed by Engineer-in-charge. (laying Conforming to IS 12288 : 1987) (All sizes in mm)		
	80mm	Each	3394.00
	100mm	Each	4242.00
	150mm	Each	7068.00
	200mm	Each	10187.00
	250mm	Each	14143.00
	300mm	Each	19241.00
	350mm	Each	29590.00
	400mm	Each	36826.00
	450mm	Each	46594.00
	500mm	Each	56472.00
	600mm	Each	78867.00
	700mm	Each	135890.00
	750mm	Each	161313.00
	800mm	Each	191961.00
	900mm	Each	249272.00
	1000mm	Each	318770.00
6.47	Providing & Laying Ductile Iron All Flanged crosses Conforming to IS-9523/2000 in the nominal diameter/sizes with external bitumen coating and internal cement mortar lining with finishing etc. complete as directed by Engineer-in-charge. (laying Conforming to IS 12288 : 1987) (All sizes in mm)		
	80mm	Each	1300.00
	100mm	Each	1642.00
	150mm	Each	2669.00
	200mm	Each	3901.00
	250mm	Each	6433.00
	300mm	Each	9033.00
	350mm	Each	15263.00
	400mm	Each	19056.00
	450mm	Each	23636.00
	500mm	Each	29643.00
	600mm	Each	42612.00
	700mm	Each	26765.00
	750mm	Each	87133.00
	800mm	Each	113027.00
	900mm	Each	141354.00
	1000mm	Each	176665.00
6.49	Providing & Supplying D.I. Specials & Fittings For all types of specials, bends, tees.. etc.		
6.49.1	80 to 300 mm dia	Kg.	57.00
6.49.2	350 mm and above dia	Kg.	88.00

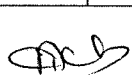
CHAPTER 7 - UNPLASTICIZED PVC (UPVC) PIPES & FITTINGS FOR POTABLE WATER SUPPLY

S.No.	Particulars of Items	Unit	Rates (in Rs.)			
7.1	Providing, laying and jointing following UPVC pipes with solvent cement joint for 4, 6, 8 and 10 kg/ sq. cm. pressures including testing of joints, cost of jointing materials etc. complete in all respect. [Conform to IS 4985:2000 and IS 7634 (PT-3)]		4Kg/Cm ²	6Kg/Cm ²	8 Kg/Cm ²	10Kg/Cm ²
	90 mm dia.	RM.	100.00	118.00	160.00	182.00
	110 mm dia.	RM.	141.00	175.00	233.00	267.00
	140 mm dia.	RM.	233.00	291.00	401.00	440.00
	160 mm dia.	RM.	307.00	372.00	512.00	574.00
	180 mm dia.	RM.	386.00	462.00	651.00	710.00
	200 mm dia.	RM.	482.00	589.00	796.00	922.00
	250 mm dia	RM.	516.00	939.00	1267.00	1501.00
	315 mm dia	RM.	784.00	1525.00	1960.00	2420.50
7.3	Providing, Solvent Cement Joints to UPVC Pipes and fittings of 4, 6, 8 and 10 Kg/Sq cm. Pressure including testing of joints and cost of jointing materials (i.e. socket, coupler & solvent cement) [Conform to IS 7634 (PT-3) : 2003]		4Kg/Cm ²	6Kg/Cm ²	8 Kg/Cm ²	10Kg/Cm ²
	90 mm dia.	Each	14.00	14.00	14.00	14.00
	110 mm dia.	Each	16.00	16.00	16.00	16.00
	140 mm dia.	Each	23.00	23.00	23.00	23.00
	160 mm dia.	Each	27.00	27.00	27.00	27.00
	180 mm dia.	Each	33.00	33.00	33.00	33.00
	200 mm dia.	Each	39.00	39.00	39.00	39.00
	250 mm dia	Each	57.00	57.00	57.00	57.00
	315 mm dia	Each	67.00	67.00	67.00	67.00
7.5	Providing and laying in position following UPVC bends suitable for 4, 6, 8 and 10 Kg/Sq. cm. pressure pipes. [Conform to IS 4985:2000 and IS 7634 (PT-3) :2003, IS 7834 (PT-I to VIII: 1987)]		4Kg/Cm ²	6Kg/Cm ²	8 Kg/Cm ²	10Kg/Cm ²
	90 mm dia.	Each	93.00	89.00	132.00	171.00
	110 mm dia.	Each	157.00	127.00	204.00	262.00
	140 mm dia.	Each	344.00	393.00	478.00	700.00
	160 mm dia.	Each	492.00	564.00	854.00	918.00
	180 mm dia.	Each	738.00	813.00	1000.00	1421.00
	200 mm dia.	Each	996.00	1102.00	1636.00	1655.00
	250 mm dia	Each	1925.00	2604.00	-	4250.00
	315 mm dia	Each	3798.00	5163.00	-	8415.00

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7.6	Providing and laying in position following UPVC Tees, suitable for 4, 6, 8 and 10 Kg/Sq.cm. Pressure pipes. [Conform to IS 4985:2000 and IS 7634 (PT-3) :2003, IS 7834 (PT-I to VIII: 1987]		4Kg/Cm ²	6Kg/Cm ²	8 Kg/Cm ²	10Kg/Cm ²
	90 mm dia.	Each	33.00	49.00	66.00	78.00
	100 mm dia.	Each	57.00	86.00	115.00	126.00
	140 mm dia.	Each	123.00	148.00	173.00	207.00
	160 mm dia.	Each	134.00	183.00	299.00	359.00
	180 mm dia.	Each	307.00	362.00	417.00	500.00
	200 mm dia.	Each	473.00	542.00	610.00	684.00
	250 mm dia	Each	542.00	611.00	680.00	754.00
	315 mm dia	Each	612.00	681.00	750.00	824.00
7.7	Providing and laying in position following UPVC flanged tail pieces suitable for 4, 6, 8 and 10 Kg./Sq. cm. Pressure pipes. [Conform to IS 4985:2000 and IS 7634 (PT-3) :2003, IS 7834 (PT-I to VIII: 1987]		4Kg/Cm ²	6Kg/Cm2	8 Kg/Cm2	10Kg/Cm2
	90 mm dia.	Each	18.00	38.00	57.00	75.00
	110 mm dia.	Each	36.00	51.00	67.00	115.00
	140 mm dia.	Each	67.00	86.00	92.00	187.00
	160 mm dia.	Each	73.00	103.00	134.00	212.00
	180 mm dia.	Each	84.00	121.00	158.00	274.00
	200 mm dia.	Each	106.00	148.00	191.00	345.00
	250 mm dia	Each	128.00	176.00	225.00	418.00
	315 mm dia	Each	150.00	205.00	259.00	491.00
7.8	Providing and laying in position following UPVC end Cap (plugs) suitable for 4, 6, 8 and 10 Kg/Sq cm. Pressure pipes. [Conform to IS 4985:2000 and IS 7634 (PT-3) :2003, IS 7834 (PT-I to VIII: 1987]		4Kg/Cm ²	6Kg/Cm2	8 Kg/Cm2	10Kg/Cm2
	90 mm dia.	Each	17.00	18.00	19.00	23.00
	110 mm dia.	Each	18.00	23.00	28.00	37.00
	140 mm dia.	Each	23.00	31.00	47.00	70.00
	160 mm dia.	Each	50.00	60.00	69.00	95.00
	180 mm dia.	Each	65.00	78.00	108.00	149.00
	200 mm dia.	Each	95.00	110.00	124.00	161.00
	250 mm dia	Each	126.00	142.00	157.00	194.00
	315 mm dia	Each	157.00	176.00	190.00	227.00
7.9	Providing and laying in position UPVC coupler suitable for 4, 6, 8 and 10 Kg/Sq. cm. Pressure pipes [Conform to IS 4985:2000 and IS 7634 (PT-3) :2003, IS 7834 (PT-I to VIII: 1987]		4Kg/Cm ²	6Kg/Cm2	8 Kg/Cm2	10Kg/Cm2
	90 mm dia.	Each	21.00	32.00	43.00	45.00
	110 mm dia.	Each	38.00	50.00	63.00	78.00
	140 mm dia.	Each	62.00	98.00	134.00	149.00
	160 mm dia.	Each	103.00	134.00	166.00	213.00

	180 mm dia.	Each	130.00	199.00	268.00	297.00
	200 mm dia	Each	177.00	255.00	334.00	421.00
	250 mm dia	Each	224.00	581.00	0.00	942.00
	315 mm dia	Each	272.00	1154.00	0.00	1876.00
7.10	Providing and laying in position of following UPVC Reducers suitable for 4, 6, 8 and 10 Kg/Sq cm. Pressure pipes. [Conform to IS 4985:2000 and IS 7634 (PT-3) :2003, IS 7834 (PT-I to VIII: 1987]		4Kg/Cm ²	6Kg/Cm2	8 Kg/Cm2	10Kg/Cm2
	110x90 mm dia.	Each	34.00	36.00	38.00	50.00
	140x90 mm dia.	Each	41.00	48.00	56.00	63.00
	160x90 mm dia.	Each	45.00	53.00	82.00	72.00
	140x110 mm dia.	Each	48.00	49.00	71.00	79.00
	160x110 mm dia.	Each	49.00	62.00	82.00	111.00
	160x140 mm dia.	Each	50.00	65.00	131.00	157.00
	180x90 mm dia	Each	50.00	79.00	102.00	122.00
	180x110 mm dia	Each	53.00	84.00	129.00	174.00
	180x140 mm dia	Each	64.00	98.00	150.00	203.00
	180x160 mm dia	Each	72.00	111.00	168.00	225.00
	200x110 mm dia.	Each	116.00	129.00	142.00	192.00
	200x140 mm dia	Each	116.00	154.00	160.00	193.00
	200x160 mm dia	Each	202.00	175.00	190.00	206.00
	200x180 mm dia	Each	188.00	196.00	203.00	244.00
	250x200 mm dia	Each	203.00	319.00	439.00	561.00
	315x250 mm dia	Each	190.00	573.00	777.00	982.00
7.12	Providing and Supplying of UPVC Pipes (4 Kg./sq.cm) ISI marked as per IS 4985/2000 duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.					
	63mm	RM.			31.00	
	75mm	RM.			48.00	
	90mm	RM.			66.00	
	110mm	RM.			93.00	
	125mm	RM.			135.00	
	140mm	RM.			181.00	
	160mm	RM.			227.00	
	180mm	RM.			298.00	
	200mm	RM.			377.00	
	225mm	RM.			472.00	
	250mm	RM.			605.00	
	280mm	RM.			502.00	
	315mm	RM.			636.00	





7.13	Providing and Supplying of UPVC Pipes (6 Kg./sq.cm) ISI marked as per IS 4985/2000 duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.					
	50mm	RM.			37.00	
	63mm	RM.			58.00	
	75mm	RM.			81.00	
	90mm	RM.			112.00	
	110mm	RM.			169.00	
	125mm	RM.			245.00	
	140mm	RM.			285.00	
	160mm	RM.			363.00	
	180mm	RM.			452.00	
	200mm	RM.			579.00	
	225mm	RM.			761.00	
	250mm	RM.			926.00	
	280mm	RM.			1186.00	
	315mm	RM.			1512.00	
7.14	Providing and Supplying of UPVC Pipes (10 Kg./sq.cm) ISI marked as per IS 4985/2000 duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.					
	50mm	RM.			50.00	
	63mm	RM.			90.00	
	75mm	RM.			129.00	
	90mm	RM.			176.00	
	110mm	RM.			261.00	
	125mm	RM.			351.00	
	140mm	RM.			434.00	
	160mm	RM.			565.00	
	180mm	RM.			701.00	
	200mm	RM.			912.00	
	225mm	RM.			1176.00	
	250mm	RM.			1489.00	
	280mm	RM.			1901.00	
	315mm	RM.			2408.00	

	UPVC SPECIALS AS PER IS 7834 (Part-I to Part-VIII) /1987, IS 7634 (Part-III) & IS 4985/2000 suitable for 4,6 & 10 Kg/sq.cm				
7.15	Providing and Supplying of UPVC Threaded Coupler duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.				
	63 mm x 50 mm	Each		26.00	
	75 mm x 50 mm	Each		36.00	
	90 mm x 80 mm	Each		57.00	
	110 mm x 100 mm	Each		89.00	
	140 mm x 125 mm	Each		149.00	
7.16	Providing and Supplying of Unequal Tee, duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.				
	63 mm x 50 mm	Each		18.00	
	75 mm X 50 mm	Each		20.00	
	90 mm x 50 mm	Each		30.00	
	90 mm x 63 mm	Each		34.00	
	90 mm x 75 mm	Each		43.00	
	110 mm x 50 mm	Each		46.00	
	110mm x 63 mm	Each		49.00	
	110 mm x 90mm	Each		53.00	
	140mm x 50 mm	Each		69.00	
	140 mm x 63 mm	Each		73.00	
	140 mm x 90 mm	Each		75.00	
	140 mm x 110 mm	Each		77.00	
	160 mm x 50 mm	Each		88.00	
	160 mm x 63 mm	Each		105.00	
	160 mm x 90 mm	Each		120.00	
	160 mm x 110mm	Each		137.00	
	160 mm x140 mm	Each		310.00	
7.17	Providing and Supplying of UPVC Reducer Coupler, duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.				
	63 mm x 50 mm	Each		18.00	
	75 mm x 63 mm	Each		25.00	

	90 mm x 63 mm	Each		29.00	
	90 mm x 75 mm	Each		42.00	
	110 mm x 63 mm	Each		47.00	
	110 mm x 75 mm	Each		54.00	
	110 mm x 90 mm	Each		58.00	
	140 mm x 63 mm	Each		69.00	
	140 mm x 90 mm	Each		83.00	
	140 mm x 110 mm	Each		96.00	
	160 mm x 110 mm	Each		144.00	
	160 mm x 140 mm	Each		183.00	
7.18	Providing and Supplying of UPVC Reducer Multi Stage, duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.				
	90 mm x 63 mm	Each		29.00	
	110 mm x 63 mm	Each		47.00	
	110 mm x 75 mm	Each		54.00	
	110 mm x 90 mm	Each		58.00	
	140 mm x 90 mm	Each		83.00	
7.19	Providing and Supplying of UPVC Reducer Fabricated duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.				
	75 mm x 63 mm	Each		66.00	
	90 mm x 75 mm	Each		103.00	
	110 mm x 90 mm	Each		160.00	
	140 mm x 110 mm	Each		269.00	
	160 mm x 140 mm	Each		418.00	
7.20	Providing and Supplying of Saddle Piece, duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.				
	63 mm x 20 mm	Each		57.00	
	75 mm x 20 mm	Each		73.00	
	90 mm x 20 mm	Each		85.00	
	110 mm x 20 mm	Each		95.00	
	140 mm x 20 mm	Each		106.00	
	160 mm x 20 mm	Each		128.00	

7.21	Providing and Supplying of UPVC Couplers Fabricated (4 Kg./Sq.cm), duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.					
	20 mm	Each			-	
	25 mm	Each			-	
	32 mm	Each			-	
	40 mm	Each			-	
	50 mm	Each			7.00	
	63 mm	Each			10.00	
	75 mm	Each			17.00	
	90 mm	Each			26.00	
	110 mm	Each			33.00	
	140 mm	Each			62.00	
	160 mm	Each			88.00	
	200 mm	Each			152.00	
7.22	Providing and Supplying of UPVC Couplers Fabricated (6 Kg./Sq.cm), duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.					
	20 mm	Each			-	
	25 mm	Each			-	
	32 mm	Each			-	
	40 mm	Each			-	
	50 mm	Each			7.00	
	63 mm	Each			14.00	
	75 mm	Each			24.00	
	90 mm	Each			29.00	
	110 mm	Each			38.00	
	140 mm	Each			90.00	
	160 mm	Each			121.00	
	200 mm	Each			224.00	




7.23	Providing and Supplying of UPVC Bends Fabricated (4 Kg./Sq.cm), duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.					
	20 mm	Each			-	
	25 mm	Each			-	
	32 mm	Each			-	
	40 mm	Each			11.00	
	50 mm	Each			17.00	
	63 mm	Each			19.00	
	75 mm	Each			31.00	
	90 mm	Each			54.00	
	110 mm	Each			93.00	
	140 mm	Each			236.00	
	160 mm	Each			355.00	
	200 mm	Each			637.00	
7.24	Providing and Supplying of UPVC Bends Fabricated (6 Kg./Sq.cm), duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.					
	20 mm	Each			-	
	25 mm	Each			-	
	32 mm	Each			10.00	
	40 mm	Each			12.00	
	50 mm	Each			20.00	
	63 mm	Each			43.00	
	75 mm	Each			68.00	
	90 mm	Each			84.00	
	110 mm	Each			122.00	
	140 mm	Each			355.00	
	160 mm	Each			536.00	
	200 mm	Each			1036.00	
7.25	Providing and Supplying of UPVC Equal Tee Fabricated (4 Kg./Sq.cm), duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.					
	20 mm	Each			8.00	

	25 mm	Each		12.00		
	32 mm	Each		15.00		
	40 mm	Each		22.00		
	50 mm	Each		28.00		
	63 mm	Each		32.00		
	75 mm	Each		36.00		
	90 mm	Each		39.00		
	110 mm	Each		69.00		
	140 mm	Each		121.00		
	160 mm	Each		149.00		
	200 mm	Each		448.00		
7.26	Providing and Supplying of UPVC Equal Tee Fabricated (6 Kg./sq.cm) BIS 10124/1982 Part-V, duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.					
	20 mm	Each		9.00		
	25 mm	Each		13.00		
	32 mm	Each		17.00		
	40 mm	Each		25.00		
	50 mm	Each		30.00		
	63 mm	Each		36.00		
	75 mm	Each		40.00		
	90 mm	Each		46.00		
	110 mm	Each		82.00		
	140 mm	Each		142.00		
	160 mm	Each		176.00		
	200 mm	Each		527.00		
7.27	Providing and Supplying of UPVC Couplers (Mould) BIS 7834/1975 Part-VI, duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.					
	20 mm	Each		-		
	25 mm	Each		-		
	32 mm	Each		9.00		
	40 mm	Each		12.00		
	50 mm	Each		15.00		
	63 mm	Each		30.00		
	75 mm	Each		32.00		
	90 mm	Each		48.00		
	110 mm	Each		84.00		
	140 mm	Each		89.00		

	160 mm	Each		97.00		
	200 mm	Each		385.00		
7.28	Providing and Supplying of UPVC Elbow (Mould) BIS 7834/1975 Part-VI, duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.					
	20 mm	Each		-		
	25 mm	Each		8.00		
	32 mm	Each		13.00		
	40 mm	Each		22.00		
	50 mm	Each		36.00		
	63 mm	Each		45.00		
	75 mm	Each		58.00		
	90 mm	Each		112.00		
	110 mm	Each		148.00		
	140 mm	Each		320.00		
	160 mm	Each		455.00		
	200 mm	Each		845.00		
7.29	Providing and Supplying of UPVC Male Threaded Adopter, duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.					
	20 mm	Each		-		
	25 mm	Each		6.00		
	32 mm	Each		9.00		
	40 mm	Each		14.00		
	50 mm	Each		21.00		
	63 mm	Each		34.00		
	75 mm	Each		40.00		
	90 mm	Each		54.00		
	110 mm	Each		90.00		
	140 mm	Each		110.00		
	160 mm	Each		199.00		
	200 mm	Each		217.00		




7.30	Providing and Supplying of UPVC End Cap, duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading /unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.					
	20 mm	Each			-	
	25 mm	Each			-	
	32 mm	Each			-	
	40 mm	Each			8.00	
	50 mm	Each			10.00	
	63 mm	Each			11.00	
	75 mm	Each			14.00	
	90 mm	Each			15.00	
	110 mm	Each			20.00	
	140 mm	Each			27.00	
	160 mm	Each			55.00	
	200 mm	Each			104.00	
7.31	Providing and Supplying of UPVC Tail piece without flange (BIS marked), duly tested from certified agencies for usage in Drinking water inclusive of all materials, Central, State and Municipal taxes and duties inspection charges, transit insurance, loading/unloading FOR site unloading & stacking etc. complete as per direction of Engineer-in-Charge.					
	20 mm	Each			-	
	25 mm	Each			-	
	32 mm	Each			9.00	
	40 mm	Each			9.00	
	50 mm	Each			11.00	
	63 mm	Each			14.00	
	75 mm	Each			19.00	
	90 mm	Each			25.00	
	110 mm	Each			42.00	
	140 mm	Each			79.00	
	160 mm	Each			116.00	
	200 mm	Each			213.00	

CHAPTER 8 - PIPE APPURTENANCES - C.I. & D.I. VALVES, MJ SPECIALS

S.No.	Particulars of Items	Unit	Rates (in Rs.)		
8.1	Providing & fixing of Cast iron double flanged sluice valves as per I.S.:14846-2000 fitted with cast iron cap including jointing & testing with cost of jointing material such as bolts, nuts, rubber insertions etc. all complete. (Steel Spindle)		PN-1.0	PN-1.6	

	50mm dia	Each	2013.00	2161.00	
	65mm dia	Each	2375.00	2553.00	
	80mm dia	Each	2812.00	3022.00	
	100mm dia	Each	3787.00	4071.00	
	125mm dia	Each	4032.00	4260.00	
	150mm dia	Each	5579.00	6195.00	
	200mm dia	Each	9767.00	10851.00	
	250 mm dia	Each	14083.00	14591.00	
	300mm dia	Each	17908.00	19445.00	
	350mm dia	Each	18497.00	19787.00	
	400mm dia	Each	22409.00	24140.00	
	450mm dia	Each	26262.00	28283.00	
	500mm dia	Each	43153.00	70233.00	
	600mm dia	Each	50448.00	81606.00	
	700 mm dia.	Each	93393.00	241255.00	
	750 mm dia.	Each	100976.00	260762.00	
	800 mm dia.	Each	108808.00	281115.00	
	900 mm dia.	Each	142379.00	368941.00	
	1000 mm dia.	Each	185893.00	482809.00	
	1100 mm dia.	Each	589453.00	853502.00	
	1200 mm dia.	Each	696520.00	1109794.00	
8.4	Extra for providing cast iron hand wheel to following cast iron sluice valves vide item no. 8.1.		PN-0.6	PN-1.0	PN-1.6
	80 mm dia.	Each	77.00	79.00	81.00
	100 mm dia.	Each	82.00	85.00	86.00
	125 mm dia.	Each	103.00	106.00	108.00
	150 mm dia.	Each	118.00	122.00	124.00
	200 mm dia.	Each	206.00	212.00	216.00
	250 mm dia.	Each	308.00	318.00	324.00
	300 mm dia.	Each	334.00	344.00	351.00
	350 mm dia.	Each	514.00	529.00	540.00
	400 mm dia.	Each	771.00	794.00	810.00
	450 mm dia.	Each	817.00	842.00	858.00
	500 mm dia.	Each	925.00	953.00	972.00
	600 mm dia.	Each	1028.00	1059.00	1080.00
	700 mm dia.	Each	1131.00	1165.00	1187.00
	750 mm dia.	Each	1285.00	1324.00	1349.00
	800 mm dia.	Each	1362.00	1403.00	1430.00
	900 mm dia.	Each	1542.00	1588.00	1619.00
	1000 mm dia.	Each	1594.00	1641.00	1673.00
	1100 mm dia.	Each	1799.00	1853.00	1889.00
	1200 mm dia.	Each	1928.00	1986.00	2024.00
8.5	Providing and fixing air valve threaded of following diameter				
	15 mm diameter	Each	354.00		
	25 mm diameter	Each	579.00		
	40 mm diameter	Each	1267.00		
	50 mm diameter	Each	1791.00		
	80 mm diameter	Each	5740.00		

8.7	Supply of Single Chamber D.I. Air valve with body and cover in ductile iron of grade SG 50 or equivalent grade as per I.S. 3896-part2-1985 and subsequent revisions. All internal parts such as float shell etc. all cover bolts of stainless steel and gaskets and seals of EPDM. Epoxy powder coating (EP-P) inside and outside colour blue. Drilled as per IS:1538.				
	Dia (in mm)		P.N. 1.0/1.6	P.N. 2.5	
	50	Each	23475.00	29344.00	
	80	Each	34542.00	43178.00	
	100	Each	43689.00	54611.00	
	150	Each	56796.00	70995.00	
	200	Each	64322.00	80403.00	
8.8	Supply of DI D/F Swing Check Valves Slanted/Straight seated with metallic, corrosion proof and wear resistant seat faces, body and disc of ductile cast iron GGG 50/SG Iron 420/12 or equivalent grade as per IS 3896 (part-2) - 1985 and subsequent revisions. Shafts of stainless steel, shaft bearing of zinc free bronze and seat faces with nickel weld over lay, micro finished. All the inside and outside of the body is to be coated with double coating of Epoxy liquid. Drilled as per IS:1538.				
	(Dia in mm)		P.N. 1.0	P.N. 1.6	P.N. 2.5
	100	Each	11704.00	12874.00	14805.00
	150	Each	22134.00	24348.00	28000.00
	200	Each	37655.00	41421.00	47634.00
	250	Each	52803.00	58083.00	66795.00
	300	Each	76387.00	84025.00	96629.00
	350	Each	126563.00	139220.00	160103.00
	400	Each	147406.00	162147.00	186469.00
	500	Each	241298.00	265428.00	305242.00
	600	Each	334338.00	340061.00	391070.00
	700	Each	592236.00	605727.00	696586.00
	800	Each	603766.00	618881.00	711713.00
8.9	Supply of DI D/F Sluice Valves Slanted/Straight seated with metallic, corrosion proof and wear resistant seat faces, body and disc of ductile cast iron GGG 50/SG Iron 420/12 or equivalent grade as per IS 3896 (part-2) - 1985 and subsequent revisions. Shafts of stainless steel, shaft bearing of zinc free bronze and seat faces with nickel weld over lay, micro finished. All the inside and outside of the body is to be coated with double coating of Epoxy liquid. Drilled as per IS:1538.		PN 1.6		
	50mm dia	Each	3120.00		
	65mm dia	Each	3754.00		
	80mm dia	Each	4482.00		
	100mm dia	Each	4482.00		

	125mm dia	Each	6053.00		
	150mm dia	Each	7483.00		
	200mm dia	Each	9066.00		
	250mm dia	Each	17375.00		
	300mm dia	Each	24934.00		
	350mm dia	Each	31285.00		
	400mm dia	Each	60130.00		
	450mm dia	Each	72623.00		
	500mm dia	Each	85213.00		
	600mm dia	Each	117432.00		
8.10a	Providing & fixing cast iron double flanged single door reflux (non return) valves including jointing & testing with cost of jointing material such as bolts, nuts and rubber insertion all complete as per IS :5312 (Part I)		PN- 1.0		
	50mm dia	Each	1006.00		
	65mm dia	Each	1297.00		
	80mm dia	Each	1569.00		
	100mm dia	Each	2189.00		
	150mm dia	Each	3589.00		
	200mm dia	Each	6403.00		
	250mm dia	Each	9062.00		
	300mm dia	Each	12597.00		
	350mm dia	Each	22959.00		
8.10b	Providing & fixing cast iron double flanged multi door reflux (non return) valves including jointing & testing with cost of jointing material such as bolts, nuts and rubber insertion all complete as per IS : 5312 (Part II)		PN- 0.6	PN- 1.0	
	400mm dia	Each	49375.00	54766.00	
	450mm dia	Each	62583.00	67974.00	
	500mm dia	Each	87534.00	104230.00	
	600mm dia	Each	130596.00	148242.00	
	700mm dia	Each	153520.00	205867.00	
	750mm dia	Each	237758.00	249326.00	
	800mm dia	Each	272259.00	294706.00	
	900mm dia	Each	317542.00	339988.00	
	1000mm dia	Each	363632.00	386055.00	
	1100mm dia	Each	410213.00	432648.00	
	1200mm dia	Each	457308.00	479743.00	
8.12	Providing & fixing cast iron butterfly valves including jointing & testing with cost of jointing material such as bolts, nuts and rubber insertion all complete as per IS :13095-1991. (Valves above 200 mm dia should be gear operated)		PN- 1.0	PN- 1.6	
	50mm dia	Each	1791.00	1820.00	
	65mm dia	Each	2022.00	2051.00	
	80mm dia	Each	2282.00	2311.00	
	100mm dia	Each	2817.00	2846.00	

	150mm dia	Each	3857.00	3876.00	
	200mm dia	Each	7332.00	7351.00	
	250mm dia	Each	11295.00	11314.00	
	300mm dia	Each	16513.00	15327.00	
	350mm dia	Each	26580.00	24665.00	
	400mm dia	Each	35165.00	32626.00	
	450mm dia	Each	43720.00	40555.00	
	500mm dia	Each	87304.00	80924.00	
	600mm dia	Each	110303.00	102276.00	
	700mm dia	Each	276909.00	256556.00	
	750mm dia	Each	361144.00	334577.00	
	800mm dia	Each	398416.00	369094.00	
	900mm dia	Each	471431.00	436702.00	
	1000mm dia	Each	760049.00	570407.00	
	1100mm dia	Each	760233.00	704112.00	
	1200mm dia	Each	904626.00	837809.00	
	1400mm dia	Each	868613.00	971706.00	
8.14a	Providing & fixing cast iron single air valves, small orifice with screwed end as per IS : 14845-2000 including jointing & testing with cost of jointing material and rubber insertion all complete as per IS :13095-1991		PN- 1.0	PN- 1.6	
	25mm dia	Each	608.00	678.00	
	40mm dia	Each	739.00	797.00	
8.15	Providing & fixing cast iron single air valves, large orifice with screwed end as per IS : 14845-2000 including jointing & testing with cost of jointing material and rubber insertion all complete as per IS :13095-1991		PN- 1.0	PN- 1.6	
	25mm dia	Each	783.00	911.00	
	40mm dia	Each	797.00	1135.00	
	50mm dia	Each	981.00	1156.00	
8.17	Providing & fixing cast iron double air valves, flanged without in-built isolating valve as per IS : 14845-2000 including jointing & testing with cost of jointing material and rubber insertion all complete as per IS :13095-1991		PN- 1.0	PN- 1.6	
	40mm dia	Each	1489.00	1425.00	
	50mm dia	Each	1791.00	1781.00	
	65mm dia	Each	2024.00	2339.00	
	80mm dia	Each	2282.00	2546.00	
	100mm dia	Each	2824.00	3113.00	
	150mm dia	Each	3857.00	5259.00	
	200mm dia	Each	7268.00	8292.00	
8.19	Providing & fixing cast iron double air valves, flanged with in-built isolating valve as per IS : 14845-2000 including jointing & testing with cost of jointing material and rubber insertion all complete as per IS :13095-1991		PN- 1.0	PN- 1.6	
	40mm dia	Each	1381.00	1543.00	
	80mm dia	Each	1792.00	2061.00	

	100mm dia	Each	2089.00	6133.00	
	150mm dia	Each	3803.00	10489.00	
	200mm dia	Each	7861.00	17028.00	
8.21	Providing and fixing of cast iron plain ended sluice valves as per IS : 14846-2000 fitted with cast iron cap including jointing and testing with cost of jointing material C.I. detachable joints Conforming to IS 8794/1988 with bolts, nuts and rubber rings Conforming to IS 5382/85 & IS-10292/88 (Class 10) all complete.		PN- 1.0		
	80mm dia	Each	3181.00		
	100mm dia	Each	4252.00		
	150mm dia	Each	6449.00		
	200mm dia	Each	11041.00		
	300mm dia	Each	19961.00		
8.22	Providing and supply of Cast Iron Sluice Gate Square type Cast Iron Wall Thimble mounted, Manually operated, CL-PL : 5.50 Meter, Class – I, Flush Bottom Closure as per IS-13349 duly tested inclusive of all taxes related to central, state and municipal, inclusive of excise duty, inspection charges, transportation charges, transit insurance, loading/ unloading and stacking at site etc, complete.				
8.22.1	300X300 mm.	Each		123357.00	
8.22.2	400X400 mm.	Each		137935.00	
8.22.3	500X500 mm.	Each		162159.00	
8.22.4	600X600 mm.	Each		181456.00	
8.22.5	700X700 mm.	Each		184954.00	
8.22.6	800X800 mm.	Each		215777.00	
8.22.7	900X900 mm.	Each		237258.00	
8.22.8	1000X1000 mm.	Each		271091.00	
8.22.9	1100X1100 mm.	Each		282762.00	
8.22.10	1200X1200 mm	Each		326686.00	
8.22.11	1300X1300 mm.	Each		367121.00	
8.22.12	1400X1400 mm.	Each		444900.00	
8.22.13	1500X1500 mm.	Each		468091.00	
	Mechanical Joints / Fittings				
8.24	Providing and Supply of C.I. Mechanical Compression flanged /socket tail piece (Popularly known as 1TM Flanged/ Socket Tailpiece) suitable for making flanged connection with the plain barrel of C.I. Spun Pipes (as per IS- 1536/2001) and D.I. Pipes (as per IS 8329/2000). The Tailpiece to be supplied complete with sealing rubber gasket of S.B.R., C.I. Follower Glands and M.S. Nut Bolts. The whole assembly should be mechanically and hydraulically tested to the provisions as laid down in IS : 1538/1993.				
	80 mm	Each		885.00	

	100 mm	Each	1029.00		
	125 mm	Each	1418.00		
	150 mm	Each	1732.00		
	200 mm	Each	2085.00		
	250 mm	Each	3246.00		
	300 mm	Each	3998.00		
	350 mm	Each	5283.00		
	400 mm	Each	6092.00		
	450 mm	Each	7520.00		
	500 mm	Each	9090.00		
	600 mm	Each	14135.00		
	700 mm	Each	19894.00		
	750 mm	Each	22845.00		
8.25	Supply of C. I. Mechanical Compression Collar Coupling (Popularly known as Jiffy TM collar coupling) suitable for C.I.Spun pipe (as per IS 1536/2001) and D.I. pipes (as per IS 8329/2000). complete with sealing rubber gasket of SBR, C.I., Follower Glands and M.S. Nut Bolts. The whole assembly should be mechanically and hydraulically tested to the provisions as laid down in IS : 1538/1993.				
	80 mm	Each	714.00		
	100 mm	Each	819.00		
	125 mm	Each	1133.00		
	150 mm	Each	1342.00		
	200 mm	Each	1799.00		
	250 mm	Each	2456.00		
	300 mm	Each	3198.00		
	350 mm	Each	4521.00		
	400 mm	Each	5378.00		
	450 mm	Each	6949.00		
	500 mm	Each	8138.00		
	600 mm	Each	11946.00		
	700 mm	Each	16562.00		
	750 mm	Each	19418.00		
8.26	Supply of C. I. Mechanical Joint Double Socket 90°(1/4) Bends as dimensionally described in Table 14 of IS- 13382/ 1992 complete with sealing rubber gasket of SBR (dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C.I. Pipes.				
	80 mm	Each	2104.00		
	100 mm	Each	2570.00		
	125 mm	Each	3427.00		
	150 mm	Each	4302.00		
	200 mm	Each	6387.00		
	250 mm	Each	9157.00		

	300 mm	Each	12765.00		
	350 mm	Each	19942.00		
	400 mm	Each	25415.00		
	450 mm	Each	31650.00		
	500 mm	Each	39217.00		
	600 mm	Each	57635.00		
	700 mm	Each	87857.00		
	750 mm	Each	103944.00		
8.27	Supply of CI Mechanical joint Double Socket Socket45° (1/8) Bends as dimensionally described in Table 14 of IS- 13382/ 1992 complete with sealing rubber gasket of SBR (dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C.I. Pipes.				
	80 mm	Each	1904.00		
	100 mm	Each	2389.00		
	125 mm	Each	3046.00		
	150 mm	Each	3817.00		
	200 mm	Each	5530.00		
	250 mm	Each	7643.00		
	300 mm	Each	10680.00		
	350 mm	Each	16134.00		
	400 mm	Each	20370.00		
	450 mm	Each	24511.00		
	500 mm	Each	29936.00		
	600 mm	Each	42215.00		
	700 mm	Each	63870.00		
	750 mm	Each	75102.00		
8.28	Supply of C. I. Mechanical Joint Double Socket 22.5°(1/16) Bends as dimensionally described in Table 14 of IS- 13382/ 1992 complete with sealing rubber gasket of SBR (dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C.I. Pipes.				
	80 mm	Each	1818.00		
	100 mm	Each	2284.00		
	125 mm	Each	2875.00		
	150 mm	Each	3627.00		
	200 mm	Each	5054.00		
	250 mm	Each	6853.00		
	300 mm	Each	9443.00		
	350 mm	Each	14230.00		
	400 mm	Each	17276.00		
	450 mm	Each	20655.00		
	500 mm	Each	25224.00		
	600 mm	Each	34124.00		

	700 mm	Each	49973.00	
	750 mm	Each	59016.00	
8.29	Supply of CI Mechanical joint Double Socket 11.25°(1/32) Bends as dimensionally described in Table 14 of IS- 13382/ 1992 complete with sealing rubber gasket of SBR (dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C.I. Pipes.			
	80 mm	Each	1818.00	
	100 mm	Each	2284.00	
	125 mm	Each	2760.00	
	150 mm	Each	3427.00	
	200 mm	Each	4769.00	
	250 mm	Each	6482.00	
	300 mm	Each	8871.00	
	350 mm	Each	13088.00	
	400 mm	Each	15991.00	
	450 mm	Each	18799.00	
	500 mm	Each	22702.00	
	600 mm	Each	30222.00	
	700 mm	Each	43691.00	
	750 mm	Each	51306.00	
8.30	Supply of CI Mechanical joint All Socket Tees as dimensionally described in Table 18 of IS 13382/1992 complete with sealing rubber gasket of S.B.R. (dimensionally described in IS-12820/1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C.I. pipes.			
	80x80x80 mm dia	Each	2675.00	
	100x100x80 mm	Each	3227.00	
	100x100x100 mm	Each	3417.00	
	150x150x80 mm	Each	4598.00	
	150x150x100 mm	Each	4883.00	
	150x150x150 mm	Each	5711.00	
	200x200x80 mm	Each	6187.00	
	200x200x100 mm	Each	6558.00	
	200x200x150 mm	Each	8062.00	
	200x200x200 mm	Each	8300.00	
	250x250x80 mm	Each	8391.00	
	250x250x100 mm	Each	8481.00	
	250x250x150 mm	Each	9585.00	
	250x250x200 mm	Each	10699.00	
	250x250x250 mm	Each	11708.00	
	300x300x80 mm	Each	10870.00	
	300x300x100 mm	Each	11242.00	
	300x300x150 mm	Each	12450.00	
	300x300x200 mm	Each	13640.00	

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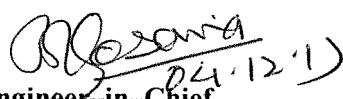
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	300x300x250 mm	Each	15020.00
	300x300x300 mm	Each	16867.00
8.31	Supply of CI Mechanical joint Double Socket with Flanged Tees inclusive of all taxes & duties, insurance, loading/unloading & stacking FOR at site complete.		
	80x80x80 mm dia	Each	2256.00
	100x100x80 mm	Each	2818.00
	100x100x100 mm	Each	2903.00
	150x150x80 mm	Each	4255.00
	150x150x100 mm	Each	4360.00
	150x150x150 mm	Each	4969.00
	200x200x80 mm	Each	5797.00
	200x200x100 mm	Each	5883.00
	200x200x150 mm	Each	6673.00
	200x200x200 mm	Each	7339.00
	250x250x80 mm	Each	7624.00
	250x250x100 mm	Each	7796.00
	250x250x150 mm	Each	8700.00
	250x250x200 mm	Each	9595.00
	250x250x250 mm	Each	10499.00
	300x300x80 mm	Each	10052.00
	300x300x100 mm	Each	10137.00
	300x300x150 mm	Each	11222.00
	300x300x200 mm	Each	12308.00
	300x300x250 mm	Each	13412.00
	300x300x300 mm	Each	14411.00
	350x350x80 mm	Each	13231.00
	350x350x100 mm	Each	14088.00
	350x350x150 mm	Each	15420.00
	350x350x200 mm	Each	18085.00
	350x350x300 mm	Each	20846.00
	350x350x350 mm	Each	20846.00
	400x400x80 mm	Each	16848.00
	400x400x100 mm	Each	16848.00
	400x400x150 mm	Each	18085.00
	400x400x200 mm	Each	19989.00
	400x400x300 mm	Each	23083.00
	400x400x400 mm	Each	26414.00
	450x450x80 mm	Each	19323.00
	450x450x100 mm	Each	20084.00
	450x450x200 mm	Each	27366.00
	450x450x300 mm	Each	29270.00
	450x450x350 mm	Each	29270.00
	450x450x450 mm	Each	32982.00
	500x500x100 mm	Each	23559.00
	500x500x250 mm	Each	31792.00
	500x500x300 mm	Each	31792.00
	500x500x400 mm	Each	32316.00
	500x500x500 mm	Each	40359.00
	600x600x100 mm	Each	31412.00

	600x600x300 mm	Each	44547.00		
	600x600x400 mm	Each	50211.00		
	600x600x500 mm	Each	58397.00		
	600x600x600 mm	Each	58397.00		
	700x700x100 mm	Each	46737.00		
	700x700x200 mm	Each	49878.00		
	700x700x350 mm	Each	56731.00		
	700x700x400 mm	Each	63680.00		
	750x750x150 mm	Each	54447.00		
	750x750x250 mm	Each	61681.00		
	750x750x750 mm	Each	101564.00		
8.32	Supply of CI Mechanical joint Double Socket Reducers inclusive of all taxes & duties, insurance, loading/unloading & stacking FOR at site complete.				
	100x80 mm dia	Each	1428.00		
	150x80 mm dia	Each	2027.00		
	150x100 mm dia	Each	2227.00		
	200x100 mm dia	Each	2960.00		
	200x150 mm dia	Each	3132.00		
	250x150 mm dia	Each	4226.00		
	250x200 mm dia	Each	4226.00		
	300x150 mm dia	Each	4341.00		
	300x200 mm dia	Each	5597.00		
	300x250 mm dia	Each	5483.00		
	350x200 mm dia	Each	6358.00		
	350x250 mm dia	Each	6273.00		
	350x300 mm dia	Each	8662.00		
	400x250 mm dia	Each	10518.00		
	400x300 mm dia	Each	10661.00		
	400x350 mm dia	Each	9852.00		
	450x400 mm dia	Each	11946.00		
	450x350 mm dia	Each	12517.00		
	450x300 mm dia	Each	11946.00		
	500x350 mm dia	Each	15801.00		
	500x400 mm dia	Each	15801.00		
	500x450 mm dia	Each	15658.00		
	600x400 mm dia	Each	22274.00		
	600x450 mm dia	Each	22702.00		
	600x500 mm dia	Each	21512.00		
	700x500 mm dia	Each	39693.00		
	700x600 mm dia	Each	36837.00		
	750x600 mm dia	Each	42263.00		
	750x700 mm dia	Each	41406.00		
	800x450mm dia	Each	50734.00		
	800x700mm dia	Each	49592.00		
8.33	Supply of DI Dismantling joint with M.S. Nut stud & washers coated for rust prevention & internal rubber rings etc. complete assembly set as per type design inclusive of all taxes & duties, insurance, loading/ unloading & stacking FOR at site complete.				

80 mm	Each	2056.00
100 mm	Each	2361.00
150 mm	Each	3998.00
200 mm	Each	5616.00
250 mm	Each	7653.00
300 mm	Each	9928.00
350 mm	Each	14944.00
400 mm	Each	18133.00
450 mm	Each	21750.00
500 mm	Each	25653.00
600 mm	Each	36932.00
700 mm	Each	54923.00
750 mm	Each	63109.00
800 mm	Each	70057.00
900 mm	Each	82812.00
1000 mm	Each	101754.00
1100 mm	Each	128026.00
1200 mm	Each	152870.00

Encl:- Nil


Engineer-in-Chief
Public Health Engineering Department
Chhattisgarh, Raipur

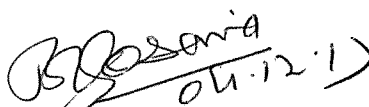
Endt. No. 8838 /T.S./E.In.C./PHED/ Raipur

Dated 04.12.2017

Copy is forwarded to :-

1. Secretary, Govt. of Chhattisgarh, Public Health Engineering Department, Mantralaya Raipur
2. Engineer- in-Chief, PWD/Water Resources Department, Raipur.
3. The Accountant General, Chhattisgarh, Near Vidhan Sabha, Raipur.
4. The Chief Technical Examiner, Computer Bhawan in campus of office of the EE, MRP, Raipur.
5. The All Chief Engineer, Raipur Zone Raipur/Bilaspur zone Bilaspur/Jagdalpur Zone Jagdalpur/ E/M.
6. All Superintending Engineer, PHED Raipur Circle Raipur/Bilaspur Circle Bilaspur/Jagdalpur Circle Jagdalpur/Durg Circle Durg/Kondagaon Circle Kondagaon/Superintending Engineer (E/M) Raipur.
7. All Executive Engineer, Civil/E/M.

Encl:- Nil


Engineer-In-Chief
Public Health Engineering Department
Chhattisgarh, Raipur