

**PART- V**  
**SCHEDULE OF RATES**  
**WEIGHT IN KG/METER**  
**WEIGHT FOR C.I PIPES/DOUBLE FLANGED/SPIGOT AND SOCKETTED END**

Size of pipe in mm	C.I./S.S.			C.I./D.F.	
	Class LA	Class A	Class B	Class A	Class B
1. 80mm dia	16.00	17.38	18.64	18.96	19.99
2. 100mm dia	19.82	21.82	23.27	23.56	25.05
3. 125mm dia	25.82	28.18	30.36	30.25	32.56
4. 150mm dia	32.18	35.27	38.00	38.07	40.77
5. 200mm dia	47.09	51.09	55.27	54.87	58.87
6. 240mm dia	63.45	69.09	74.73	73.73	79.33
7. 300mm dia	81.82	89.45	96.91	94.76	102.10
8. 350mm dia	103.09	111.82	121.27	118.82	128.00
9. 400mm dia	125.45	137.09	148.00	145.72	156.52
10. 450mm dia	151.27	166.18	179.27	175.27	188.27
11. 500mm dia	177.09	192.91	208.73	204.35	220.05
12. 600mm dia	236.00	257.64	279.09	273.40	294.90
13. 700mm dia	304.55	332.73	359.45	355.16	381.76
14. 750mm dia	341.09	372.91	404.55	399.67	431.36

**NB :** 1. The weight of D/F pipes calculated weight of standard length of pipes for as 2.75 meter inclusive of two flanges as per I.S. 1537-1960 page 16 7 17.

2. The weight of spun pipe size ranging form 80mm dia to 300mm dia class LA, Class A, Class B is taken form D.G.S. & D rate contract No. HW-I/RC-0471, C.I. Spun pipes/1982/CAOC/493 dt. 31-12-81 during period 1-1-82 to 31-12-82 conforming to ISS 1536/1976.

3. The weight of spun pipes size ranging form 350, dia to 750mm dia Class La, Class a Class B are taken from standard weight of 5.5 meter length C.I. spun pipe with societ for none working length conforming to IS 1536-1967.

4. The above table shows the average and approximate weight to be taken for guidance in repairing estimate/indents for stores/ and execution.

**WEIGHT IN KG/METER**  
**WEIGHT FOR D.I PIPES SPIGOT AND SOCKETTED END**

Size of pipe in mm		Weight of Ductile Iron (DI) pipes 5.50m length in Kg/meter	
Sl No	Dia in mm	Class K-7	Class K-9
1.	100mm dia	18.91	21.28
2.	150mm dia	25.56	32.08
3.	200mm dia	38.52	45.28
4.	250mm dia	50.93	59.62
5.	300mm dia	64.62	75.71
6.	350mm dia	85.41	99.12
7.	400mm dia	102.25	118.77
8.	450mm dia	120.87	140.42
9.	500mm dia	141.65	164.50
10.	600mm dia	187.13	217.19

QUANTITY OF LEAD AND SPUN YERN FOR DIFFERENT SIZES OF PIPES  
(CLAUSE 5.1.3.2, IS 3114-1965)

Nominal size of pipe	Led/joint Kg	Depth of lead joint mm	Yarn/joint Kg.
1	2	3	4
80	1.8	45	0.10
100	2.2	45	0.18
125	2.6	45	0.20
150	3.4	50	0.20
200	5.0	50	0.30
250	6.1	50	0.35
300	7.2	55	0.48
350	8.4	55	0.60
400	9.5	55	0.75
450	14.0	55	0.95
500	15.0	60	1.00
600	19.0	60	1.20
700	22.0	60	1.35
750	25.0	60	1.45

**Note :** The qualities of lead and spun yarn given in the table are provisional and variation of + 2 permissible.

Co-efficient of Roughness

The value of the William's coefficient C for new conduit materials and value to be adopted for design purpose are as follows.

Conduit materials	Recommended value for	
	New pipes	Design purposes.
Cast Iron	130	100
Galvanised Iron 50mm	120	100
Galvanised Iron 50mm and Below use of house service Connection	120	55
Steel reveted joints Steel, welded joints lined with cement or Bituminous materials	100	95
Steel welded joints	140	110
Concrete	140	100
Asbestor Cement	140	110
Plastic pipes	150	120

**WEIGHT OF P.V.C. PIPES 2.5 Kgt/Cm<sup>2</sup>, 4 Kgt/Cm<sup>2</sup>, 6Kgt/Cm<sup>2</sup> and 10 Kgt/Cm<sup>2</sup>**

<b>Size of pipe</b>	<b>2.5 Kgt/Cm<sup>2</sup></b>	<b>4 Kgt/Cm<sup>2</sup></b>	<b>6Kgt/Cm<sup>2</sup></b>	<b>10 Kgt/Cm<sup>2</sup></b>
20mm O/D				0.111
25mm O/D				0.170
32mm O/D				0.270
40mm O/D			0.30	0.416
50mm O/D			0.40	0.647
63mm O/D		0.474	0.668	1.01
75mm O/D		0.668	0.931	1.443
90mm O/D	0.606	0.944	1.334	2.048
110mm O/D	0.894	1.369	1.948	3.077
140mm O/D	1.413	2.223	3.178	4.456
160mm O/D	1.884	2.947	4.130	6.456
200mm O/D	2.945	4.563	6.464	10.185

**NOTE: The schedule of Rates of Khasi Hills District is for the year 2005-06  
And that of Garo Hills District is for the year 2004-05**