

**CARRIAGES BY MANUAL LABOUR**  
**( Including loading, unloading and stacking etc. )**  
**BY MANUAL LABOUR**

( Including loading, unloading and stacking etc. )

Sl No	Materials	Gross Capacity per day	Net Quantity after deduction of voids	Unit of Rates	Cost per day for first 50 m	Extra Cost for every additional lead of 50m or part t/o	CARRIAGE COST PER UNIT QUANTITY FOR A LEAD OF									
							50 m	100 m	150 m	200 m	250 m	300 m	350 m	400 m	450 m	500 m
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

*Group A :*

*Cost per day for first 50m = 7.67nos unskilled = 7.67 x 250 = Rs.1,917.50*  
*Extra cost for every addl. 50m lead = 1.67nos unskilled = 1.67 x 250 = Rs.417.50*

4 a) Lime, moorum, building rubbish.	35.00	35.00	cum	1917.50	417.50	60.26	133.65	207.04	280.42	353.81	427.19	500.58	573.96	647.35	720.74
b) Earth.	35.00	28.00	cum	1917.50	417.50	75.33	167.06	258.79	350.53	442.26	533.99	625.72	717.46	809.19	900.92
c) Manure or sludge.	35.00	32.20	cum	1917.50	417.50	65.50	145.27	225.04	304.81	384.57	464.34	544.11	623.87	703.64	783.41
d) Excavated rock.	35.00	17.50	cum	1917.50	417.50	120.53	267.30	414.07	560.84	707.61	854.39	#####	#####	#####	#####
e) Sand, aggregate below 40mm nominal size.	28.00	28.00	cum	1917.50	417.50	75.33	167.06	258.79	350.53	442.26	533.99	625.72	717.46	809.19	900.92
f) Aggregate 40mm nominal size and above.	28.00	25.90	cum	1917.50	417.50	81.44	180.61	279.78	378.95	478.12	577.29	676.46	775.63	874.80	973.97
g) Stone boulder.	28.00	23.80	cum	1917.50	417.50	88.62	196.54	304.46	412.38	520.30	628.22	736.14	844.07	951.99	#####
h) Concrete block.	15.00	15.00	cum	1917.50	417.50	140.62	311.85	483.08	654.32	825.55	996.78	#####	#####	#####	#####
i) Brick.	15000	15000	1000nos	1917.50	417.50	140.62	311.85	483.08	654.32	825.55	996.78	#####	#####	#####	#####
j) Brick tile, roofing tile.	24000	24000	1000nos	1917.50	417.50	87.89	194.91	301.93	408.95	515.97	622.99	730.01	837.03	944.05	#####
k) Steam coal.	30.00	30.00	ton	1917.50	417.50	70.31	155.93	241.54	327.16	412.78	498.39	584.01	669.63	755.24	840.86

*Group B :*

*Cost per day for first 50m = 9.2 nos unskilled = 9.2 x 250.00 = Rs.2,300.00*  
*Extra cost for every addl. 50m lead = 1.35nos unskilled = 1.35 x 250.00 = Rs.337.50*

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							QUANTITY FOR A LEAD OF									
							50 m	100 m	150 m	200 m	250 m	300 m	350 m	400 m	450 m	500 m
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
5	a) Steel.	27.00	27.00	ton	2300.00	337.50	93.70	201.16	308.61	416.06	523.52	630.97	738.43	845.88	953.33	#####
	b) Timber.	42.00	42.00	cum	2300.00	337.50	60.24	129.32	198.39	267.47	336.55	405.63	474.70	543.78	612.86	681.93
	c) Tar, bitumen, roofing felt, flooring felt, asphalt, etc.	46.00	46.00	ton	2300.00	337.50	55.00	118.07	181.14	244.21	307.28	370.35	433.42	496.49	559.57	622.64
	d) Cement.	57.99	57.99	ton	2300.00	337.50	43.63	93.66	143.69	193.72	243.75	293.78	343.81	393.84	443.87	493.90
	e) Stone block, GI, CC, CI pipes below 100mm dia. and other heavy materials.	40.00	40.00	ton	2300.00	337.50	63.25	135.78	208.31	280.84	353.38	425.91	498.44	570.97	643.50	716.03
	f) Glass block (hollow) 200 x 200x100mm.	4000.00	4000.00	100nos	2300.00	337.50	63.25	135.78	208.31	280.84	353.38	425.91	498.44	570.97	643.50	716.03
6	a) RCC pipe, steel cylinder, CI pipe, RC pipe, unreinforced cement pipe, prestressed concrete pipes.															
	i) 100mm dia.	1702.00	1702.00	Rm	2300.00	337.50	1.49	3.19	4.90	6.60	8.30	10.01	11.71	13.42	15.12	16.83
	ii) 125mm dia.	1391.00	1391.00	Rm	2300.00	337.50	1.82	3.90	5.99	8.08	10.16	12.25	14.33	16.42	18.50	20.59
	iii) 150mm dia.	1208.00	1208.00	Rm	2300.00	337.50	2.09	4.50	6.90	9.30	11.70	14.10	16.50	18.91	21.31	23.71
	iv) 200mm dia.	805.00	805.00	Rm	2300.00	337.50	3.14	6.75	10.35	13.95	17.56	21.16	24.77	28.37	31.98	35.58
	v) 250mm dia.	458.00	458.00	Rm	2300.00	337.50	5.52	11.86	18.19	24.53	30.86	37.20	43.53	49.87	56.20	62.54
	vi) 300mm dia.	360.00	300.00	Rm	2300.00	337.50	8.43	18.10	27.78	37.45	47.12	56.79	66.46	76.13	85.80	95.47
	vii) 350mm dia.	256.00	256.00	Rm	2300.00	337.50	9.88	21.22	32.55	43.88	55.21	66.55	77.88	89.21	100.55	111.88
	viii) 400mm dia.	220.00	220.00	Rm	2300.00	337.50	11.50	24.69	37.88	51.06	64.25	77.44	90.63	103.81	117.00	130.19
	ix) 450mm and 500mm dia.	160.00	160.00	Rm	2300.00	337.50	15.81	33.95	52.08	70.21	88.34	106.48	124.61	142.74	160.88	179.01
	x) 600, 700, 750, and 800mm dia.	150.00	150.00	Rm	2300.00	337.50	16.87	36.21	55.55	74.89	94.23	113.58	132.92	152.26	171.60	190.94

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							QUANTITY FOR A LEAD OF									
							50 m	100 m	150 m	200 m	250 m	300 m	350 m	400 m	450 m	500 m
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b) SW pipes.

i) 100mm dia.	2298.00	2298.00	Rm	2300.00	337.50	1.10	2.36	3.63	4.89	6.15	7.41	8.68	9.94	11.20	12.46
ii) 150mm dia.	1398.00	1398.00	Rm	2300.00	337.50	1.81	3.89	5.96	8.04	10.11	12.19	14.26	16.34	18.41	20.49
iii) 200mm dia.	999.00	999.00	Rm	2300.00	337.50	2.53	5.44	8.34	11.24	14.15	17.05	19.96	22.86	25.77	28.67
iv) 230mm dia.	780.00	780.00	Rm	2300.00	337.50	3.24	6.96	10.68	14.40	18.12	21.84	25.56	29.28	33.00	36.72
v) 250mm dia.	600.00	600.00	Rm	2300.00	337.50	4.22	9.05	13.89	18.72	23.56	28.39	33.23	38.06	42.90	47.74
vi) 300mm dia.	420.00	420.00	Rm	2300.00	337.50	6.02	12.93	19.84	26.75	33.65	40.56	47.47	54.38	61.29	68.19
vii) 350mm dia.	300.00	300.00	Rm	2300.00	337.50	8.43	18.10	27.78	37.45	47.12	56.79	66.46	76.13	85.80	95.47
viii) 400mm dia.	240.00	240.00	Rm	2300.00	337.50	10.54	22.63	34.72	46.81	58.90	70.98	83.07	95.16	107.25	119.34
ix) 450mm dia.	198.00	198.00	Rm	2300.00	337.50	12.78	27.43	42.08	56.74	71.39	86.04	100.69	115.35	130.00	144.65
x) 500mm dia.	162.00	162.00	Rm	2300.00	337.50	15.62	33.53	51.44	69.34	87.25	105.16	123.07	140.98	158.89	176.80
xi) 600mm dia.	132.00	132.00	Rm	2300.00	337.50	19.17	41.15	63.13	85.10	107.08	129.06	151.04	173.02	195.00	216.98

c) AC pipes.

i) 50mm dia.	10064.00	10064.00	Rm	2300.00	337.50	0.25	0.54	0.83	1.12	1.40	1.69	1.98	2.27	2.56	2.85
ii) 80mm dia.	3660.00	3660.00	Rm	2300.00	337.50	0.69	1.48	2.28	3.07	3.86	4.65	5.45	6.24	7.03	7.83
iii) 100mm dia.	2562.00	2562.00	Rm	2300.00	337.50	0.99	2.12	3.25	4.38	5.52	6.65	7.78	8.91	10.05	11.18
iv) 150mm dia.	1830.00	1830.00	Rm	2300.00	337.50	1.38	2.97	4.55	6.14	7.72	9.31	10.89	12.48	14.07	15.65

**NOTES :**

1 The carriage rates are of loose quantity of materials, i.e. before deduction of voids if any.

2 Analysis based on CPWD Analysis of Rates 1997, Vol - I