

**CARRIAGES BY MECHANICAL TRANSPORT
(CALCULATION OF COST PER UNIT QUANTITY)
(Including loading, unloading and stacking etc.)
CARRIAGES BY MECHANICAL TRANSPORT
B : CALCULATION OF COST PER UNIT QUANTITY
(Including loading, unloading and stacking etc.)**

<i>Cost per trip from trip rate calculation</i> →					1218.00	1336.42	1453.02	1563.18	1668.59	72.04
Sl No	Materials	Gross Capacity per Trip	Net Quantity after deduction of voids	Unit of Rates	CARRIAGE COST PER UNIT QUANTITY FOR A LEAD OF					
					1 km	2 km	3 km	4 km	5 km	Beyond 5 km per unit per km
1	2	3	4	5	6	7	8	9	10	11

1	a) Lime, moorum, building rubbish.	6.00	6.00	cum	223.30	245.01	266.39	286.58	305.91	13.21
	b) Earth.	6.00	4.80	cum	279.13	306.26	332.98	358.23	382.39	16.51
	c) Manure or sludge.	6.00	5.52	cum	242.72	266.32	289.55	311.50	332.51	14.36
	d) Excavated rock.	6.00	3.00	cum	446.60	490.02	532.77	573.17	611.82	26.41
	e) Sand, aggregate below 40mm nominal size.	5.00	5.00	cum	267.96	294.01	319.66	343.90	367.09	15.85
	f) Aggregate 40mm nominal size and above.	5.00	4.62	cum	290.00	318.20	345.96	372.19	397.28	17.15
	g) Stone boulder.	5.00	4.25	cum	315.25	345.90	376.08	404.59	431.87	18.65
	h) Concrete block.	3.00	3.00	cum	446.60	490.02	532.77	573.17	611.82	26.41
	i) Brick.	2000	2000	1000nos	669.90	735.03	799.16	859.75	917.72	39.62
	j) Brick tile, roofing tile.	3200	3200	1000nos	418.69	459.39	499.48	537.34	573.58	24.76
	k) Steam coal.	5.50	5.50	ton	243.60	267.28	290.60	312.64	333.72	14.41
	l) Empty cement bag.	2000	2000	1000nos	669.90	735.03	799.16	859.75	917.72	39.62
2	a) Steel.	7.00	7.00	ton	191.40	210.01	228.33	245.64	262.21	11.32
	b) Timber.	5.00	5.00	cum	267.96	294.01	319.66	343.90	367.09	15.85
	c) Tar, bitumen, roofing felt, flooring felt, asphalt, etc.	4.50	4.50	ton	297.73	326.68	355.18	382.11	407.88	17.61
	d) Cement, stone block, GI, CC, CI & AC pipes below 100mm dia and other heavy materials.	7.00	7.00	ton	191.40	210.01	228.33	245.64	262.21	11.32
	e) Glass block (hollow) 200x200x100mm.	1000	1000	100nos	133.98	147.01	159.83	171.95	183.54	7.92

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3 a) RCC pipe, steel cylinder, CI pipe, RC pipe, unreinforced cement pipe, prestressed concrete pipes.

i) 100mm dia.	80x3.66m	292.80	Rm	4.58	5.02	5.46	5.87	6.27	0.27
ii) 125mm dia.	60x3.66m	219.60	Rm	6.10	6.69	7.28	7.83	8.36	0.36
iii) 150mm dia.	50x3.66m	183.00	Rm	7.32	8.03	8.73	9.40	10.03	0.43
iv) 200mm dia.	30x3.66m	109.80	Rm	12.20	13.39	14.56	15.66	16.72	0.72
v) 250mm dia.	22x3.66m	80.52	Rm	16.64	18.26	19.85	21.35	22.79	0.98
vi) 300mm dia.	17x3.66m	62.22	Rm	21.53	23.63	25.69	27.64	29.50	1.27
vii) 350mm dia.	12x3.66m	43.92	Rm	30.51	33.47	36.39	39.15	41.79	1.80
viii) 400mm dia.	9x3.66m	32.94	Rm	40.67	44.63	48.52	52.20	55.72	2.41
ix) 450mm and 500mm dia.	7x3.66m	25.62	Rm	52.30	57.38	62.39	67.12	71.64	3.09
x) 600, 700, 750, and 800mm dia.	5x3.66m	18.30	Rm	73.21	80.33	87.34	93.96	100.30	4.33
xi) 900mm dia.	3x3.66m	10.98	Rm	122.02	133.89	145.57	156.60	167.16	7.22
xii) 1000, 1100, and 1200mm dia.	2x3.66m	7.32	Rm	183.03	200.83	218.35	234.90	250.74	10.83
b) RCC Hume pipes									
i) NP3 900mm dia.	4x2.5m	10.00	Rm	133.98	147.01	159.83	171.95	183.54	7.92
ii) NP3 1200mm dia.	3x2.5m	10.00	Rm	133.98	147.01	159.83	171.95	183.54	7.92
c) SW pipes.									
i) 100mm dia.	800x0.6m	480.00	Rm	2.79	3.06	3.33	3.58	3.82	0.17
ii) 150mm dia.	400x0.6m	240.00	Rm	5.58	6.13	6.66	7.16	7.65	0.33
iii) 200mm dia.	225x0.6m	135.00	Rm	9.92	10.89	11.84	12.74	13.60	0.59
iv) 230mm dia.	175x0.6m	105.00	Rm	12.76	14.00	15.22	16.38	17.48	0.75
v) 250mm dia.	140x0.6m	84.00	Rm	15.95	17.50	19.03	20.47	21.85	0.94
vi) 300mm dia.	110x0.6m	66.00	Rm	20.30	22.27	24.22	26.05	27.81	1.20
vii) 350mm dia.	80x0.6m	48.00	Rm	27.91	30.63	33.30	35.82	38.24	1.65
viii) 400mm dia.	55x0.6m	33.00	Rm	40.60	44.55	48.43	52.11	55.62	2.40
ix) 450mm dia.	45x0.6m	27.00	Rm	49.62	54.45	59.20	63.69	67.98	2.93
x) 500mm dia.	40x0.6m	24.00	Rm	55.83	61.25	66.60	71.65	76.48	3.30
x) 600mm dia.	30x0.6m	18.00	Rm	74.43	81.67	88.80	95.53	101.97	4.40

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