

TECHNICAL DATA

CEMENT MORTARS.

Mortar Mix	Unit Cum	Sand/Cum	Cement in Kgs	Cement in Bgs.
1:2	1	1	720	14.40
1:3	1	1	480	9.60
1:4	1	1	360	7.20
1:5	1	1	288	5.76
1:6	1	1	240	4.80
1:8	1	1	180	3.60
1:10	1	1	144	2.88
1:12	1	1	120	2.40
1:1 1/2	1	1	960	19.20
1:1	1	1	1443	28.86

CEMENT CONCRETES

Concrete Mix(CC)	Unit Cum	Metal/Cum	Sand/Cum	Cement in Kgs	Cement in Bgs.
1 : 1 1/2 : 3	1	0.92	0.46	441.60	8.83
1 : 2 : 4	1	0.92	0.46	331.20	6.62
1 : 3 : 6	1	0.92	0.46	220.80	4.42
1 : 4 : 8	1	0.92	0.46	165.60	3.31
1 : 5 : 10	1	0.92	0.46	136.50	2.73
1 : 6 : 12	1	0.92	0.46	110.40	2.21
1 : 5 : 8	1	0.92	0.575	165.60	3.31
1 : 6 : 10	1	0.92	0.552	136.50 (Spl.Mix)	2.73
1 : 4 : 6	1	0.92	0.612	220.80	4.42

C.C. FLOORING 100MM THICK 10 Sqm.

Mix	Concrete	Metal/Cum	Sand/Cum	Cement in Kgs	Cement in Bgs.
1 : 2 : 4	1 Cum.	0.92	0.46	330.80	6.61
1 : 3 : 4	1 Cum.	0.92	0.46	330.30	6.60
1 : 3 : 6	1 Cum.	0.92	0.46	220.80	4.42
1 : 4 : 8	1 Cum.	0.92	0.46	165.60	3.31
1 : 5 : 8	1 Cum.	0.92	0.575	165.60	3.31
1 : 5 : 10	1 Cum.	0.92	0.46	136.50	2.73
1 : 6 : 10	1 Cum.	0.92	0.552	136.50	2.73

C.R. FIRST SORT

Mortar Mix	Unit	Stone /Cum	Sand/Cum	Cement in Kgs	Cement in Bgs.
1:3	1 Cum.	1.10	0.28	134.40	2.69
1:4	1 Cum.	1.10	0.28	100.80	2.02
1:5	1 Cum.	1.10	0.28	80.60	1.61
1:6	1 Cum.	1.10	0.28	67.20	1.34
1:8	1 Cum.	1.10	0.28	50.40	1.01
1:10	1 Cum.	1.10	0.28	40.30	0.81
1:12	1 Cum.	1.10	0.28	33.60	0.67

C.R. SECOND SORT

Cement Mortar Mix	Unit	C.R.Stone /Cum	R.R.Stone /Cum	Sand/ Cum	Cement in	
					Kgs.	Bgs.
1:3	1 Cum.	0.60	0.50	0.32	153.60	3.07
1:4	1 Cum.	0.60	0.50	0.32	115.20	2.30
1:5	1 Cum.	0.60	0.50	0.32	92.20	1.84
1:6	1 Cum.	0.60	0.50	0.32	76.80	1.54
1:8	1 Cum.	0.60	0.50	0.32	57.60	1.15
1:10	1 Cum.	0.60	0.50	0.32	46.10	0.92
1:12	1 Cum.	0.60	0.50	0.32	38.40	0.77

R.R. MASONARY

Cement Mortar Mix	Unit	R.R.Stone /Cum	Sand/ Cum	Cement in Kgs	Cement in Bgs.
1:3	1 Cum.	1.10	0.36	163.20	3.26
1:4	1 Cum.	1.10	0.36	122.40	2.45
1:5	1 Cum.	1.10	0.36	97.90	1.96
1:6	1 Cum.	1.10	0.36	81.60	1.63
1:8	1 Cum.	1.10	0.36	61.20	1.22
1:10	1 Cum.	1.10	0.36	49.00	0.98
1:12	1 Cum.	1.10	0.36	40.80	0.82

SECOND CLASS BRICK MASONARY

Cement Mortar Mix	Unit	No. of Bricks	Sand/ Cum	Cement in Kgs	Cement in Bgs.
1:3	1 Cum.	512	0.20	96.00	1.92
1:4	1 Cum.	512	0.20	72.00	1.44
1:5	1 Cum.	512	0.20	57.60	1.15
1:6	1 Cum.	512	0.20	48.00	0.96
1:8	1 Cum.	512	0.20	36.00	0.72
1:10	1 Cum.	512	0.20	28.80	0.58
1:12	1 Cum.	512	0.20	24.00	0.48

PLASTERING WITH CM (10 Sqm)

Cement Mortar Mix	Thickness in MM	Quantity of Mortar in Cum.	Quantity of Sand in Cum.	Cement in Kgs	Cement in Bgs.
1:2	12	0.15	0.15	108.00	2.16
1:3	12	0.15	0.15	72.00	1.44
1:4	12	0.15	0.15	54.00	1.08
1:5	12	0.15	0.15	43.20	0.86
1:6	12	0.15	0.15	36.00	0.72
1:8	12	0.15	0.15	27.00	0.54
1:2	20	0.21	0.21	151.20	3.02
1:3	20	0.21	0.21	100.80	2.02
1:4	20	0.21	0.21	75.60	1.51
1:5	20	0.21	0.21	60.48	1.21
1:6	20	0.21	0.21	50.40	1.01
1:8	20	0.21	0.21	37.80	0.76

STEEL TABLE.

ROUND, SQUARE AND COLD TWISTED STEEL RODS.

Dia in MM	ROUNDS			SQUARE			COLD TWISTED		
	Weight per Metre in Kgs.	Sectional Area in Cm2.	Perimeter in Cm.	Weight per Metre in Kgs.	Sectional Area in Cm2.	Perimeter in Cm.	Weight per Metre in Kgs.	Sectional Area in Cm2.	Perimeter in Cm.
5	0.16	0.20	1.57	0.20	0.25	2.00			
6	0.22	0.28	1.88	0.28	0.36	2.40	0.222	0.283	1.89
8	0.39	0.50	2.51	0.50	0.64	3.20	0.395	0.503	2.51
10	0.62	0.79	3.14	0.78	1.00	4.00	0.617	0.785	3.14
12	0.89	1.13	3.77	1.13	1.44	4.80	0.888	1.131	3.77
14	1.21	1.54	4.40				1.288	4.536	4.40
16	1.58	2.01	5.03	2.01	2.56	6.40	1.578	2.011	5.08
18	2.00	2.54	5.65				2.000	2.545	5.65
20	2.47	3.14	6.28	3.14	4.00	8.00	2.466	3.142	6.28
22	2.98	3.80	6.91				2.980	3.801	6.91
25	3.85	4.91	7.85	4.91	6.25	10.00	3.854	4.909	7.85
28	4.83	5.16	8.80	6.15	7.84	11.20	4.830	6.151	8.80
32	6.31	8.04	10.05	8.04	10.24	12.80	6.313	8.042	10.85
36	7.99	10.18	11.31	10.17	12.96	14.40	7.990	10.179	11.31
40	9.86	12.57	12.57	12.56	16.00	16.00	9.864	12.050	12.57
45	12.49	15.90	14.14	15.90	20.25	18.00	12.050	15.090	
50	15.41	19.64	15.17	19.62	25.00	20.00	15.410	19.635	85.78

CEMENT

1 Cum. Of Portland Cement = 1440.00 Kgs.

1 Cum. Of Portland Cement = 30 bags for Practical Purposes

1 Bag of Cement of 50 Kgs. (110.23 lbs) including weight 1/30 Cum.

1 Bag of Portland Cement = 49 Kgs approximately excluding weight of bag.

CEMENT LOSES STRENGTH IF STORED

1. Fresh Current = 100%
2. After 3 Months = 80%
3. After 6 Months = 75%
4. After 1 Year = 70%
5. After 2 Years = 50%