

VISHWAJIT CASTING

Estimate of Cement for Construction of Vishwajit Casting Factory
Sheet and Office Block Sanction Plan No. 9/31 File No. 1057/7/1/81
Belonging to Sri. Lakshmilala Pothi.

No. of Columns	12 big Columns	C1 1.6" x 12"
	18 Small Columns	C2 12" x 12".

Bases of Columns 1:4:8	12 x 6' x 6' x 6"	= 216 cuft.
Foundation Concrete 1:1½:3	12 x 6' 0" x 6' 0" x 0.6"	= 216 "
	12 x 1' 10" x 1' 2"	= 25.47 ^{cuft.}

Columns average ht. inclined
below ground level.

12 x 25' 0" x 1' 6" x 12"	= 450 ^{cuft.}
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Bases of Columns. C2

18 x 6' 0" x 6' 0" x 0.6"	= 324 ^{cuft.}
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Foundation concrete 1:1½:3

18x 6' 0" x 6' 0" x 0.6"	= 324 ^{cuft.}
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18x 1' 2" x 1' 2" x 6"	= 12.11 ^{cuft.}
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Columns average ht including
below ground level.

18 x 25' x 1' 0" x 1' 0"	= 450 ^{cuft.}
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Plinth beams

2 x 100' 0" x 2' 6" x 1' 0"	= 500 ^{cuft.}
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3 x 100' 0" x 1' 6" x 1' 0"	= 450 ^{cuft.}
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3 x 114' 0" x 2' 6" x 1' 0"	= 855 ^{cuft.}
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Intermediate beam at 12.0" ht

3 x 100' 0" x 1' 6" x 1' 0"	= 450 ^{cuft.}
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2 x 100' 0" x 2' 6" x 1' 0"	= 500 ^{cuft.}
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3 x 114' 0" x 2' 6" x 1' 0"	= 855 ^{cuft.}
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Top beams at 19.0' ht.

3 x 100' 0" x 1' 6" x 1' 0"	= 450 ^{cuft.}
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2 x 100' 0" x 2' 6" x 1' 0"	= 500 ^{cuft.}
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3 x 114' 0" x 2' 6" x 1' 0"	= 855 ^{cuft.}
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R.C.C Building for offices,
storage etc.

R.C.C Slab 1:2:4

20' 0" x 100' 0" x 0.6"	= 1000 ^{cuft.}
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Beams

8 x 20' 0" x 1' 6" x 0.9"	= 1209 ^{cuft.}
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R2C.C chajjas

4 x 15' 0" x 2' 0" x 3½"	= 133.6 ^{cuft.}
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1 x 34' 0" x 2' 0" x 3½"	= 19.72 ^{cuft.}
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Lintels	4 x 4' 6" x 0.9" x 0.6"	= 6.75 wft. cuft
	8 x 5' 0" x 0.9" x 0.6"	= 15.00 wft. cuft.
	12 x 5' 0" x 0.9" x 0.6"	= 22.50 wft. "
C.R.S Masonry		
C.C Bed 1:4:8	114' 0" x 2' 6" x 0.6"	= 142.5 wft. "
C.R.S Masonry	114' 0" x 2' 0" x 2' 0"	= 456 wft. "
	114' 0" x 3' 6" x 1' 6"	= 578.5 wft. "
Brick wall	2 x 114' 0" x 9" x 20' (average ht	= 3420 wft. "
	2 x 87' 0" x 12' 0" x 9"	= 1602 wft. "
	1 x 87' 0" x 8' 0" x 9"	= 534 wft. "
	1 x 87' 0" x 22' 0" x 9"	= 1468.5 wft. "
Gable end wall	6 x 37' 0" x 7' 6" x 9" x .5"	= 624.38
<u>Deduction</u>		
Rolling Shutters	3 x 10' 0" x 11' 0" x 9"	= 247.5 wft. cuft.
Door	4 x 3' 6" x 7' 0" x 9"	= 73.5 wft. "
Windows	16 x 6' 0" x 4' 6" x 9"	= 324 wft. "
Ventilators.	2 x 2' 0" x 8' 0" x 9"	= 24 wft. "
Plastering	3 x 114' 0" x 25' 0"	= 8550 sft
	3 x 37' 0" x 7' 5" x $\frac{1}{2}$	= 416.5 sft
Plastering for ceiling	1 x 24' 0" x 100' 0"	= 2000 sft
Flooring plaster in storage	1 x 20' 0" x 100' 0"	= 2000 sft
Beams	16 x 20' 5" x 20 2' 0"	= 640 sft.
R.C.C Chajjas	8 x 15' 0" x 2' 0"	= 240 sft.
	2 x 34' x 2'	= 136 sft.
	4 x 87' 0" x 12' 0"	= 4472 sft.
	1 x 87' 0" x 9' 6"	= 845.5 sft.
	1 x 89' 0" x 27' 0"	= 2403.0 sft.
<u>Deductions</u>		
	3 x 10' 0" x 11' 0"	= 330 sft.
	4 x 3' 6" x 7' 0"	= 78 sft.
	16 x 6' 0" x 4' 6"	= 432 sft.
	2 x 8' 0" x 2' 0"	= 32 sft.

R.C.C Parda wall	3'0" x 100'0"	= 300 sft.
Chajja Faixa	2' x 100'0" x 1'0"	= 200 sft.

Flooring;

Base concrete 1:4:8	114'0" x 100'0" x 6"	= 5700 sfts.
Flooring concrete 1:1½:3	114'0" x 100'0" x 4"	= 3762 sfts.

ABSTRACT

Base concrete	1:4:8	= 6382.5 ^{cft} wt @ 9 bags/100 sfts	= 574.55 bags
R.C.C concrete	1:2:4	= 2306.57 @ 18bags/100sft	= 415.18 bags
R.C.C Concrete	1:1½:3	= 10654.58 @ 22bags/100sft	= 2344 bags
C.R.S Masonry		= 1054.5 @ 3.5bags/100 sft	= 36.9 bags
Brk wall		= 6935.25 @ 3.5bags/100 sft	= 242.74 bags
Plastering Double coat		= 20611 @ 2 bags 100 sft	= 412.22 bags
Parda wall		= 500 sft @ 0.1bag/sfts	= 50 bags

miscellaneous and Wdgt	4075.56 bags
	124.44 bags
	<u>4200. bags</u>

i.e 210 Tonnes of Cement.

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 For Krishna Sagar & Associates.
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