

ESTIMATE OF DIVISION OFFICE

(Total Area = 3066 sq. ft. + Gallery 1040 sq.ft + Porch 300 sq.ft)

1. C/C length of walls = $22.5 \times 2 + 15.75 \times 2 + 54.25 \times 1 + 23.5 \times 4 + 21.5 \times 6 + 33.25 \times 1 + 19.75 \times 1 + 17.75 \times 1 + 11.5 \times 1 + 7.0 \times 1 + 16.5 \times 4 + 8.5 \times 1$ running feet
= 517.5 running feet
= 157.734 running meter
2. No. of columns in main building = 52
3. No. of columns in gallery = 8
4. Size of each column = 12 inches x 9 inches
5. Plinth = 0.5 meter above ground level
6. Beam at plinth level = 9 inches x 12 inches
7. Beam at door level = 9 inches x 6 inches
8. Beam at slab level = 9 inches x 15 inches
9. Thickness of slab = 5 inches

Estimate of different works

1. Excavation:

- (i) For columns = $60 \times 1.0 \times 1.0 \times 1.2$ meter
= 72.000 cubic meter
- (ii) For walls = $(157.734 - 104 \times 0.5) \times 0.3 \times 0.5 + (19.50 - 8 \times 0.5) \times 0.3 \times 0.5$
= 18.075 cubic meter
- (iii) Total excavation = 90.075 cubic meter

2. Filling foundation with 1:3:6 (M-10) cement concrete:

- (i) For columns = $60 \times 1.0 \times 1.0 \times 0.1$
= 6.000 cubic meter
- (ii) For walls = $157.734 \times 0.3 \times 0.1 + 19.5 \times 0.3 \times 0.1$
= 5.317 cubic meter
- (iii) For flooring in rooms = 381.95×0.1
= 38.195 cubic meter
- (iv) For flooring in porch = 27.90×0.1
= 2.790 cubic meter
- (v) Total CC = 52.302 cubic meter

3. R.C.C. work in 1:1.5:3 (M-20) in columns, beams, chajjas & slab:

- (i) Columns footing = $60 \times (1 \times 1 + 0.30 \times 0.22) / 2 \times 0.3$
= 9.594 cubic meter
- (ii) Columns up to plinth level = $60 \times 1.2 \times 0.30 \times 0.22$
= 4.752 cubic meter
- (iii) Column up to roof level = $60 \times 3.1 \times 0.30 \times 0.22$
= 12.275 cubic meter
- (iv) Beam at plinth level = $(157.734 + 19.5) \times 0.22 \times 0.22$
= 8.578 cubic meter
- (v) Beam at door level = $(157.734 + 19.5) \times 0.22 \times 0.15$
= 5.848 cubic meter
- (vi) Beam at slab level = $(157.734 + 19.5) \times 0.22 \times 0.37$
= 14.426 cubic meter
- (vii) Chajjas = $13 \times 0.6 \times 1.5 \times 0.1$
= 1.170 cubic meter
- (viii) Slab = 409.85×0.125
= 51.231 cubic meter
- (ix) In stair case = $10 \times 1.20 \times 0.1$
= 1.200 cubic meter
- Total RCC = 103.226 cubic meter

- 4. Steel required in RCC** = 1.75 % of volume of RCC
= 14180 kg
- 5. Masonry in foundation/plinth** = $(157.734 + 19.5 - 52 \times 0.22) \times 0.22 \times 0.9$
= 32.827 cubic meter
- 6. Masonry in superstructure:**
- (i) In main building = $157.734 \times 0.22 \times 2.80$
= 97.164 cubic meter
- (ii) Deduction for doors/windows = $(8 \times 1.07 \times 2.1 + 4 \times 0.883 \times 2.1 + 20 \times 1.5 \times 1.35 + 6 \times 0.6 \times 0.45) \times 0.22$
= 16.076 cubic meter
- (iii) Masonry in staircase tower = $2 \times (6.3 + 2.25) \times 2.1 \times 0.22$
= 7.900 cubic meter
- (iv) Masonry in parapet wall = $68.58 \times 0.75 \times 0.22$
= 11.315
- (v) Total Masonry = 100.303 cubic meter
- 7. Plaster in 1:6 cement mortar**
- (i) In main building/courtyard = $2 \times 157.734 \times 3.3$
= 1041.044 square meter
- (ii) In parapet wall = $2 \times 68.58 \times 0.75$
= 102.87 square meter
- (iii) In roof = 409.85 sq. m
- (iii) Deduction for doors/windows = $2 \times (8 \times 1.07 \times 2.1 + 4 \times 0.883 \times 2.1 + 20 \times 1.5 \times 1.35 + 6 \times 0.6 \times 0.45)$
= 146.145 square meter
- (iv) Total plaster = 1407.619 square meter

8. Centering and shuttering:

- (i) For Columns = $60 \times 1.07 \times 4.6$
= 295.320 square meter
- (ii) For beam at plinth level = $(157.734 + 19.5) \times 0.45$
= 79.755 square meter
- (iii) For beam at door level = $(157.734 + 19.5) \times 0.686$
= 121.582 square meter
- (v) For beam at roof level = $(157.734 + 19.5) \times 0.99$
= 175.461 square meter
- (vi) For chajjas = $8 \times 0.6 \times 1.5$
= 7.200 square meter
- (vii) For slab = 409.850 sq. m
- (viii) Total shuttering = 1089.168 square meter

9. Filling foundation with moorum = 381.95×0.5

= 190.975 cubic meter

10. Wood required for frames

= $0.0635 \times 0.127 \times (8 \times 5.334 + 4 \times 5.105 + 20 \times 8.534 + 6 \times 2.1)$
= 1.987 cubic meter

11. Frame work for doors/window

= $(8 \times 1.07 \times 2.1 + 4 \times 0.883 \times 2.1 + 20 \times 1.5 \times 1.35 + 6 \times 0.6 \times 0.45)$
= 67.513 square meter

12 Flooring

= 409.850 square meter

Estimate of expenditure for forest Division Office

Sr.	CSR item no.	Description of the work	Quantity	Rate in Rs.		Amount
				Amount	Unit	
1	2.2	Clearing jungle including uprooting of rank vegetation, grass, brush wood etc	700	4.14	Sqm	2898
2	2.6	Earth work in excavation in all kinds of soil	90.075	129.00	Cum	11620
3	4.1.1.4	Filling foundation- Providing and laying in position cement concrete of M-10 grade with 20 mm nominal size graded stone aggregate	52.302	3890.00	Cum	203455
4	5.1.1	Providing and laying in position M-20 grade of reinforced cement concrete with 20 mm nominal size graded stone aggregate excluding cost of centering/shuttering/steel	103.226	6153.00	Cum	635150
5	5.16.6	Reinforcement for RCC work including straighening, cutting, bending etc with TMT bars	14180	80.00	Kg	1134400
6	6.5.2	Brick work with well burnt open bhatta bricks with crushing strength no less than 25 kg/sq.cm and absorption not more than 20% in 1:6 cement mortar	32.827	4155.00	Cum	136396
7	6.6.2	Brick work with well burnt chimney bricks with crushing strength no less than 25 kg/sq.cm and absorption not more than 20% in 1:6 cement mortar	100.303	4350.00	Cum	436318
8	13.2.2	15 mm thick plaster in 1:6 cement mortar	1407.619	128.00	Sqm	180175
9	5.9.1	Centering and shuttering including removal in beams, columns, slab etc	1089.168	190.60	Sqm	207595
10	2.26	Supplying and filling in plinth with Stone dust including ramming, watering etc	190.975	672.00	Cum	128335
11	9.1.2	Providing wood work in frames of doors and fixed in position with sal wood	1.987	71309.00	Cum	141691

Sr.	CSR item no.	Description of the work	Quantity	Rate in Rs.		Amount
				Amount	Unit	
12	9.5.2.2	Providing and fixing panelled shutters for doors with prelaminated board with decorative lamination on one side and balancing lamination on other side	67.513	1956.00	Sqm	132055
13	11.78.1.1	Providing and laying vitrified floor tiles laid on 20 mm thick cement mortar in 1:4 with 600 mm x 600 mm x 9 mm size tiles (additional 10% for skirting)	409.85	1104.00	Sqm	452474
14		Cost of window grills as per market rate	800	80.00	Kg	64000
15		Aluminium window frame 3 track sliding (2Glass+1 Mosquito mesh shutter) & fly proof outer doors	LS			100000
16		Cost of septic tank of size 8' feet x 8 feet x 8 feet; 1 no.	LS			70000
		Miscellaneous Expnese	LS			30000
17		Total				4066563
18		Add 5% for electrification				203328
19		Add 5% for sanitary fittings including 1500 liter tank				203328
20		Add for tile work in bath/toilets	LS			100000
21		Add 7% for white washing (with 2 coats of cement based putty and emulsion	LS			284659
22		Add for 20 feet long, 7 feet high and 20 inches deep almirah in 3 office rooms and one in store room	LS			100000
23		Cost of 1 AC + 15 fans	LS			100000
24		Add for aquaguard+water cooler	LS			50000
25		Add for pantary (under staircase)	LS			40000
26		Add for railing of staircase/varandah	LS			60000
		Total				5207879
27		Add for GST	18.00%			937418
		Total				6145297
28		Add 1% for labour welfare tax				61453
		Grand Total				6206750

Sr.	CSR item no.	Description of the work	Quantity	Rate in Rs.		Amount
				Amount	Unit	
		Rs. Twenty Lakhs Ninty Thousand Only				or Rs. 62,00,000
29		Provision for Boundarywall (100 rmt)				400000
		Grand Total				6600000

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राजेश खरे
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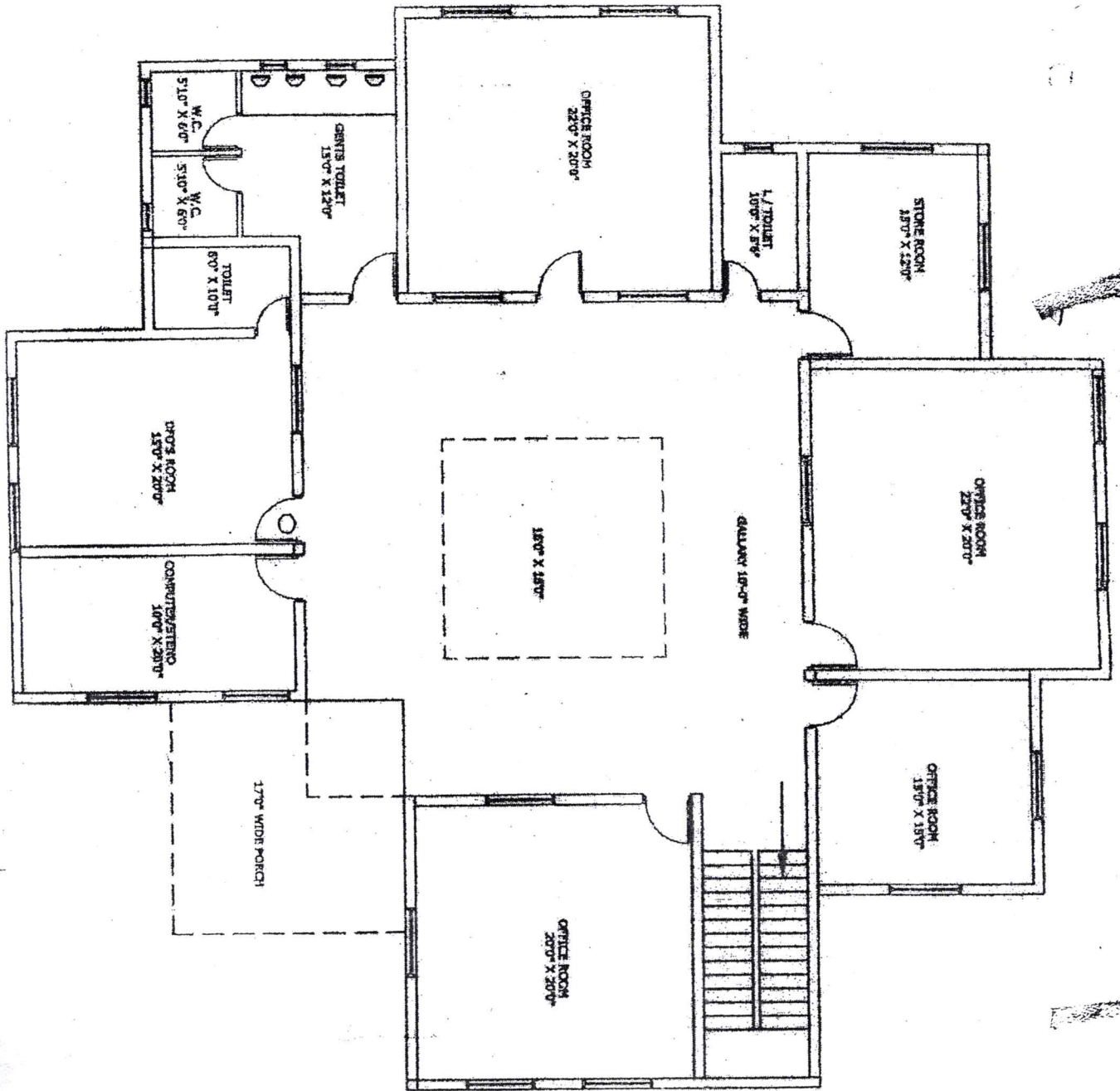
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(266)

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DIVISION OFFICE



TOTAL AREA = 2006.0 + 624.0 = 2630.0 SFT.
 PORCH = 300 SFT. + 400.0 SFT.

office

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