

विषय :- वन उपज जॉच नाका (बैरियर) का प्राक्कलन विभागीय वेबसाईट पर अपलोड करवाने बाबत।

उपरोक्त विषयांतर्गत कैम्पा योजना अंतर्गत 10 बैरियरों का निर्माण किया जाना है। उक्त कार्य को पूर्ण करने हेतु नवीन स्वीकृति अनुसार पूर्व प्राक्कलन को संशोधित किया गया है।

कृपया संलग्न एस्टीमेट , लेआउट प्लान वेबसाईट पर भवन निर्माण प्रारूप अंतर्गत प्रदर्शित करने का कष्ट करे।

संलग्न :- उपरोक्तानुसार

27/11/2019

(आलोक कुमार)

अपर प्रधान मुख्य वन संरक्षक (संरक्षण)

अपर प्रधान मुख्य वन संरक्षक (सूचना प्रौद्योगिकी)

260
25/11/19

अपर प्रधान मुख्य वन संरक्षक

अपर प्रधान मुख्य वन संरक्षक (17)

अपर प्रधान मुख्य वन संरक्षक
21/11/19

ESTIMATE OF FOREST BARRIER

1. C/C length of walls in quarter = $29.75 \times 3 + 24.25 \times 2 + 12.0 \times 4$
+ $12.75 \times 3 + 5 \times 4$ running feet
= 244 running feet
= 73.20 running meter
2. No. of columns in quarter = 18
3. Size of each column = 9 inches x 9 inches
4. Plinth = 0.5 meter above ground level
5. Beam at plinth level = 9 inches x 6 inches
6. Beam on door/windows = 9 inches x 6 inches
7. Beam at roof level = 9 inches x 6 inches
8. Thickness of slab = 4 inches

Estimate of different works

1. Excavation:

- (i) For columns = $18 \times 1.0 \times 1.0 \times 1.2$ meter
= 21.600 cubic meter
- (ii) For walls = $[73.2 - 18 \times 0.5] \times 0.3 \times 0.5$
= 9.63 cubic meter
- (iii) Total excavation = 31.23 cubic meter

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

- (i) For columns = $18 \times 1.0 \times 1.0 \times 0.1$
= 1.8 cubic meter
- (ii) For walls = $73.2 \times 0.3 \times 0.1$
= 2.196 cubic meter
- (iii) For flooring in rooms = 90.00×0.1
= 9.000 cubic meter
- (iv) Total CC = 12.996 cubic meter

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

(i) Columns footing	$= 18 \times (1 \times 1 + 0.22 \times 0.22) / 2 \times 0.3$ $= 2.830$ cubic meter
(ii) Columns up to plinth level	$= 18 \times 1.2 \times 0.22 \times 0.22$ $= 1.045$ cubic meter
(iii) Column up to roof level	$= 18 \times 0.22 \times 0.22 \times 3.1$ $= 2.700$ cubic meter
(iv) Beam at plinth level	$= 73.2 \times 0.22 \times 0.15$ $= 2.415$ cubic meter
(v) Beam at door level	$= 73.2 \times 0.22 \times 0.15$ $= 2.415$ cubic meter
(vi) Beam at roof level	$= 73.2 \times 0.22 \times 0.15$ $= 2.415$ cubic meter
(vii) Chajjas	$= 9 \times 0.6 \times 1.5 \times 0.1$ $= 0.810$ cubic meter
(viii) Slab	$= 90.00 \times 0.1$ $= 9.000$ cubic meter
(ix) Total RCC	$= 23.630$ cubic meter

4. Steel required in RCC = 1.25 % of volume of RCC
= 2318 kg

5. Masonry in foundation/plinth = $73.2 \times 0.22 \times 0.9$
= 14.493 cubic meter

6. Masonry in superstructure:

(i) In main building	$= 73.2 \times 0.22 \times 2.85$ $= 45.896$ cubic meter
(ii) In bath/toilet	$= 4.0 \times 0.22 \times 1.5 \times 3.1$ $= 4.092$ cubic meter
(iii) Deduction for doors/windows	$= (4 \times 1.07 \times 2.1 + 4 \times 0.90 \times 2.1$ $9 \times 1.2 \times 1.5 + 4 \times 0.45 \times 0.60) \times 0.22$ $= 7.442$ cubic meter
(iv) Total Masonry	$= 42.546$ cubic meter

7. Plaster in 1:6 cement mortar

(i) In main building	$= 2 \times 73.2 \times 3.0$ $= 439.200$ square meter
(ii) In bath/toilet	$= 4 \times 2 \times 3.1 \times 1.5$ $= 37.2$ square meter
(iii) In roof	$= 90.00$ square meter
(v) Deduction for doors/windows	$= 2 \times (4 \times 1.07 \times 2.1 + 4 \times 0.90 \times 2.1$ $9 \times 1.2 \times 1.5 + 4 \times 0.45 \times 0.60)$ $= 67.652$ square meter
(vi) Total plaster	$= 498.748$ square meter

8. Centering and shuttering:

(i) For Columns In main building	$= 18 \times 4 \times 0.22 \times 4.6$ $= 72.864$ square meter
(ii) For beam at plinth level	$= 73.2 \times 0.3$ $= 21.96$ square meter
(iii) For beam at door level	$= 73.2 \times 0.3$ $= 21.96$ square meter
(iv) For beam at slab level	$= 73.2 \times 0.3$ $= 21.96$ square meter
(v) For chajjas	$= 9 \times 0.6 \times 1.5$ $= 8.10$ square meter
(iv) For slab	$= 90.00$ square meter
Total shuttering	$= 236.844$ square meter

9. Filling foundation with moorum

$$= 90 \times 0.5$$

$$= 45.00 \text{ cubic meter.}$$

Wood required for frames

$$= 0.0635 \times 0.127 \times (4 \times 1.07 \times 2.1 + \\ 4 \times 0.90 \times 2.1 \\ 9 \times 1.2 \times 1.5 + 4 \times 0.45 \times 0.60)$$

$$= 0.272 \text{ cubic meter}$$

Frame work for doors/window

$$= (4 \times 1.07 \times 2.1 + \\ 4 \times 0.90 \times 2.1 \\ 9 \times 1.2 \times 1.5 + 4 \times 0.45 \times 0.60)$$

$$= 33.828 \text{ square meter}$$

10. Flooring

$$= 90.00 \text{ square meter}$$

Estimate of Expenditure

Sr.	CSR item no.	Description of the work	Quantity	Rate in Rs.		Amount
				Amount	unit	
1	2.2, page 22	Clearing jungle including uprooting of rank vegetation, grass, brush wood etc.	350 sq. meter	3.73	per sq. m	1305.500
2	2.6, page 22	Earth work in excavation in all kinds of soil	31.23 cu.m	116.10	per cu. m	3625.803
3	4.1.1.4, page 45	Filling foundation-Providing and laying in position cement concrete of M-10 grade with 20 mm nominal size graded stone aggregate	12.996 cu.m	3501.00	per cu. m	45498.996
4	4.2.1.3, page 45	Providing and laying in position M-15 grade of reinforced cement concrete with 20 mm nominal size graded stone aggregate excluding cost of centering/shuttering/steel	23.630 cu.m	4581.90	per cu. m	108270.297
5	5.16.6, page 68	Reinforcement for RCC work including straightening, cutting, bending etc with TMT bars	2318 kg	60.00	per kg	139080.000
6	6.3.2, page 85	Brick work with well burnt open bhata bricks with crushing strength no less than 25 kg/sq.cm and absorption not more than 20% in 1:6 cement mortar	14.493 cu.m	3739.50	per cu. m	54196.574
7	6.4.2, page 85	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	42.546 cu.m	3915.00	per cu. m	166567.590
8	13.2.2, page 244	15 mm thick plaster in 1:6 cement mortar	498.748 sq.m	115.20	per sq. m	57455.770
9	5.9.1, page 66	Centering and shuttering including removal in beams, columns, slab etc.	236.844 sq.m	156.60	per sq. m	37089.770
10	2.27, page 26	Supplying and filling in plinth with hard morum including ramming, watering etc.	45.00 cu.m	270.00	per cu. m	12150.000
11	9.1.2, page 131	Providing wood work in frames of doors/windows and fixed in position with sal wood	0.272 cu.m	64177.00	per cu. m	17456.144
12	9.6.3.2, page 131	Providing and fixing panelled shutters for doors & windows with decorative plywood on one side and decorative veneer on other side	33.828 sq.m	1760.00	per sq. m	59537.280

Sr.	CSR item no.	Description of the work	Quantity	Rate in Rs.		Amount
				Amount	unit	
13	11.1.1, page 196	Cement concrete flooring 1:2:4 finished with a floating coat of neat cement including cement slurry	90.00 sq.m	903.60	per sq. m	81324.000
14		Cost of septic tank of size 4 feet x 4 feet x 4 feet	LS			8000.000
15		Total				791557.724
16		Add 9% for electrification	LS			71240.195
		Add 9% for sanirity fitting including 2500 Liter Tank	LS			71240.195
		Add for tile work in bath /toilets	LS			28000.000
17		Add 5% for white washing/painting	LS			39577.886
18		Add for aquaguard + Water cooler	LS			35000.000
		Miscellaneous Expenses				24205.000
19		Total				1060821.000
		Add for GST @12%				127298.520
		Total				1188119.520
20		Add 1% for labour welfare tax				11881.195
21		Grand Total				1200000.715


 (Suni Agrawal)
 23/11/19
 APCCF(Land Managemnt)
 MP Bhopal

PLAN OF FOREST BARRIER

TOTAL AREA = 905 SQ FEET

