

Abstract of cost for Construction of 02 No. Dormitories (Stone masonry) having a size 60'-0"x20'-0" each with M.S roof (dismantellable) at Lower Holy Cave.

S. No.	Items of work	Estimated cost (Rs in lakh)
1	Civil work for construction of stone masonry dormitories (02 no.) including dismantling of existing damaged structures at Lowe Holy Cave.	23.22
2	Fabrication, Supply and Installation of M.S tubular frame structure for roof truss with PPGI sheet roofing for 02 no. dormitories.	28.00
3	Fabrication, supply and installation of three tier bunk beds of two no. dormitories having a size 60'-0"x20'-0" each	10.40
	Total cost for 02 no. dormitories	61.62 lakh

(Say Rs sixty two lakh only)

ESTIMATE No. 01

Detailed estimate for the work "Construction of Dormitories (02 no.) at Lower Holy Cave (size 60'-0"x20'-0")".

1. Dismantling of existing stone masonry damaged structures including stacking of serviceable and non serviceable material within 50 meters lead.
 - i) $\overline{2} \times (52'-0'' + 19'-0'') \times 2'-0'' \times 8'-0'' = 2275.00 \text{ cfts}$
 - ii) $\overline{2} \times (78'-0'' + 21'-0'') \times 2'-0'' \times 8'-0'' = 3167.00 \text{ cfts}$

T = 5440.00 cft
@50% of T. qty. = 2720.00cft
Or 77.03cum@Rs 820.45/cm = Rs 63199.00
(SSR- 2012)
2. Removing of cement mortar from stones (ref. 15.11.2) of SSR – 2012
Qty. Vide item no. 01 = 77.03 cum@Rs 236.98/cm = Rs 18248.00
3. Earth work by manual means for excavation of plinth/ foundation for 02 no. dormitories of size (60'-0"x20'-6") outside
 $\overline{2} \times (\overline{2} \times (60'-0'' + 15'-6'')) \times 2'-6'' \times 1'-0'' = 755.00 \text{ cft}$
Or 21.38 cum@Rs240.45/cm =Rs 5140.00
4. Providing and laying of soling stones and pitching in leveling etc complete
 $\overline{2} \times (\overline{2} \times (60'-0'' + 15'-6'')) \times 2'-6'' \times 0'-6'' = 377.50 \text{ cft}$
(229+260.40 = 489.40) or 10.69 cum@ Rs 489.40/cum = Rs 5231.00
(SSR- 2012)
5. Providing and laying of mud mortar in (1:4:8) mix using nallah aggregates
 - i). for plinth bed foundation:
 $\overline{2} \times (\overline{2} \times (60'-0'' + 15'-6'')) \times 2'-6'' \times 0'-4'' = 124.57 \text{ cft}$
 - ii). Under flooring of dormitories:
 $\overline{2} \times (\overline{1} \times 56'-0'' \times 16'-0'' \times 0'-3'') = 448.00 \text{ cft}$

T = 572.57 cft
Or 16.21cum@3112.80/cm = Rs 50458.00
(SSR- 2012)
6. Random rubble masonry with hard stone from nallah in foundation and plinth using 1:6 mix mortar using coarse sand
 $\overline{2} \times \{ \overline{2} \times (60'-0'' + 15'-6'') \times 2'-6'' \times 0'-9'' \} = 566.25 \text{ cft}$
Or 16.03 cum @Rs2583.50/cm = Rs 41413.00
(SSR- 2012)
7. Damp proof course in 50mm thick with cement concrete (1:2:4)

using 20 mm nallah aggregates.

$$\overline{2x}(2x(60'-0''+15'-6'')x2'-6'') = 755.00 \text{ cft}$$

$$\text{Or } 70.16 \text{ sqm @Rs268.10/sqm} \\ (\text{SSR} - 4.15)$$

$$= \text{Rs } 18809.00$$

8. Stone masonry in super structure above plinth level(7.1A7.2)

$$\overline{2x}(2x(60'-0''+16'-0'')x2'-0''x7'-6'') = 4560.00 \text{ cft}$$

D/d for doors and windows:

$$\text{Doors 2 no. } (2x4'-0''x2'-0''x7'-8'') = 112.00 \text{ cft}$$

$$\text{Windows 4 no. } (2x2x3'-6''x3'-0'') = \underline{84.00 \text{ cft}}$$

$$\underline{T = 196.00 \text{ cft}}$$

$$\text{Net T} = 4364.00 \text{ cft}$$

$$\text{Or } 123.59 \text{ cum@3509.15/cum} (\text{SSR } 2012)$$

$$= \text{Rs } 433695.00$$

9. Providing R.C.C. for lintels using 1:2:4 mix:

$$\text{On walls} = \overline{2x2x}(60'-0''+16'-0'')x2'-0''x0'-6'') = 304.00 \text{ cft}$$

$$\text{On D/W} = (\overline{2x}5'-0''x2'-0''x0'-4'') = 6.60 \text{ cft}$$

$$(4x4'-6''x2'-0''x0'-4'') = \underline{11.88 \text{ cft}}$$

$$\underline{T = 322.48 \text{ cft}}$$

$$\text{Or } 9.13 \text{ cum@Rs } 4810.70/\text{cm} \\ (\text{SSR}- 2012)$$

$$= \text{Rs } 43921.00$$

10. Centering and shuttering:

$$\text{Outside lintel} = \overline{2x2x}(60'-0''+20'-0'')x0'-8'' = 211.20 \text{ sft}$$

$$\text{Onside lintel} = \overline{2x2x}(56'-0''+16'-0'')x0'-8'' = \underline{190.08 \text{ sft}}$$

$$\underline{T = 401.28 \text{ sft}}$$

$$\text{Or } 37.29\text{sqm @Rs}305.70/\text{m}^2$$

$$= \text{Rs } 11400.00$$

11. Reinforcement of RCC work:

$$10\&12 \text{ mm dia} = @1\% \text{ of quantity vide item no. 9}$$

$$\underline{9.13\text{cum@}1\%} 0.913\text{cm @}78.50\text{kgs/cm } 7.16 \text{ qntls.}$$

$$\text{Say } 7.00 \text{ qntls@Rs}7100/\text{Qntl.}$$

$$= \text{Rs } 49700.00$$

12. Filling to plinth using excavated material and mulba available at site

$$\overline{2x1x}(56'-0''+15'-0'')x0'-9'' = 1302.00 \text{ cft}$$

$$\text{Or } 36.87 \text{ cum @Rs } 102.20/\text{cum} (\text{SSR}-2012)$$

$$= \text{Rs } 3768.00$$

13. Cement concrete flooring 40 mm thick with glass strips 4 mm (1:2:4mix)

$$\text{i. Cont. } \overline{2x}56'-0''x16'-0'' = 1792.00 \text{ sft}$$

$$\text{Or } \underline{166.54\text{sqm@}314.20/\text{m}^2}$$

$$= \text{Rs } 52326.00$$

$$\text{ii. Glass strips } \overline{2x}404\text{ft} = 808 \text{ rft}$$

$$\text{or } 246.34 \text{ Rm @Rs}24.30/\text{mtr} (\text{SSR } 2012)$$

$$= \text{Rs } 5986.00$$

14. Construction of concrete pavement in (1:2:4)
 Outside the dormitory
 Ref no. (11.11 of SSR 2012)
 $2 \times (60'-0" + 20'-0") \times 4'-0" \times 0'-3" = 320.00 \text{ cft}$
 Or 9.06cum@Rs5627.80/cm = Rs 51002.00
15. Plaster using coarse sand in 1:6 mix mortar
 20 mm thick (13.6.2)
 $2 \{ 2 \times (56'-0" + 16'-0") \times 8'-0" \} = 2304.00 \text{ sft}$
 Or 214.12 sqm@Rs222.90/m² (SSR 2012) = Rs 47728.00
16. Painting on stone work for front side
 only with raising and cutting etc. (13.44)
 $2 \times (60'-0" \times 8'-0") = 960.00 \text{ sft}$
 Or 89.21sqm@Rs278.40/m² (SSR 2012) = Rs 24838.00
17. Carriage of material by mechanical transport
 from 75 km lead upto Domel.
 For cement = item 5 = 1:4:8 = 16.21 cm@1.70 Q/cm = 27.54 Q
 Item 6&8 = 139.62@0.825Q/cm = 115.18Q
 Item 7 = 70.16m²@0.16Q/m² = 11.22Q
 Item 9&14 = 18.18m³@3.20Q/m³ = 58.17Q
 Item 13 = 166.54m³@0.17Q/m² = 28.31Q
 Item 15 = 214.12sqm@5.60Q%^{m²} = 11.99Q
 Item 16 = 89.21sqm@2.35Q%^{m²} = 2.09Q
 T = 254.50 Qntls.
 Or 254.50 qntls.
 Reinforcement + 7.00 qntls.
T = 261.50 qntls.
 Or 26.15qntls@501.71/mt (SSR 2012) = Rs 13119.00
18. Head load of material from Domel to Lower Holy Cave
 Qnty. Vide item no. 17 = 261.50 qntls
 Or 261qntls.@1qntl/pony = 261 ponies@Rs2000/pony (LMR) = Rs 522000.00
19. Head load of stone, sand and aggregates etc.
 i. Stones = 150.31cum-77.03 Avg = 73.28 cm (from 1km lead)
 @Rs571.17/cum(SSR 2012) = Rs41855.00
 ii. Sand & Aggregates from 6 km (from 1 km lead)
 84.72 cum@135%=115.72 cum@Rs2543/cm = Rs 294337.00
 (SSR 2012)
20. Add for doors and windows made of mild steel
 Doors = 02 nos. and windows 04 nos.
 @Rs 15000/ no. = 2x15000/- = Rs 30000.00

Total = Rs 18,28,173.00

Add 30% above on SSR items i.e. for Rs 1276173.00 = Rs 382852.00

Total = Rs 22,11,025.00

Add 5% above (2% on unforeseen items and 3%

On contingency & watch & word charges)

for Rs 2211025.00

Rs 1,10,550.00

Grand Total = **Rs 23,21,575.00**

Say Rs 23.22 lakh

ESTIMATE No. 02

Detailed estimate for the work of fabrication, supply and installation of M.S tubular truss for dormitories (02 no.) at Lower Holy Cave.

1. Steel work structural in built up sections tubular
(66x33x2.9mm)
For 9 nos. = $9 \times 1 \times (23'-0" + 2 \times 12'-6") +$
 $2 \times (4'-0" + 4'-6" + 2'-9" + 4'-3" + 1'-6") = 738 \text{ rft.}$
 $225\text{Rm} @ \text{Rs}42\text{kg/m} = 945 \text{ kgs} \text{ _____ (i)}$
 - ii. Plates 8mm (Base & Top including joisting plates)
 $9 \times \{ (4 \times 0.20 \times 0.20) + 4 \times 0.15 \times 0.15 \}$
 $= 2.25\text{sqm} @ 62.80\text{kg/m}^3 = 141.30 \text{ kg} \text{ _____ (ii)}$
 - iii. Nuts & bolts = $0.30\text{m} \times 0.075\text{mm} \times 8\text{mm} = 10.70 \text{ kgs} \text{ _____ (iii)}$
 $9 \times 16 = 144 \text{ nos. Total} = \underline{1097.00 \text{ kg.}} \text{ (A)}$
 - iv. Purlins $2 \times 4 \times 63'-0" = 504.00 \text{ rft}$
(66x33x2.9mm) or $15.3.65\text{Rm} @ 4.2\text{kg/m} = 645.33 \text{ kgs}$
 - v. Purlin cleat = 65x6mm
 $144 \times 0.15\text{m} = 21.6\text{m} @ 3.06\text{kg/m} = 66.90 \text{ kgs}$
 - vi. Nuts & bolts $2" \times 8\text{mm} = 288 \text{ nos.} = 15.00 \text{ kgs}$
Total = $\underline{727.23 \text{ kgs}} \text{ (B)}$
Total (A+B) = $(1097 + 727.23) = 1824.23\text{kgs}$
Say $1824.00 \text{ kgs} @ \text{Rs} 128/\text{kg} = \text{Rs} 218880.00$
(SSR 2012 at par) = **Rs 218880.00**
2. Providing and fixing of PPGI sheets for roofing 50mm thick
 $2 \times 63'-0" \times 13'-0" = 1638.00\text{sft}$ or $152.23\text{sqm} @ 625/\text{m}^2$
& 30% above = $\text{Rs}123686.00$
3. Carriage of material from manufacturing unit to Domel including loading and unloading
vide item no. 1 = 1824 kgs
vide item no. 2 = $723 \text{ kgs} \left\{ @ 4.75\text{kg/sqm} \right\}$
T = $2547 \text{ kgs} \left\{ \text{for item no. 2} \right\}$
@Rs 5/kg (LMR) = $\text{Rs} 12735.00$
4. Head load of material from Domel to Lower Holy Cave by pithoos or ponies
Total weight = $2547\text{kgs} @ \text{Rs}50/\text{kg}(\text{LMR}) = \underline{\text{Rs} 127350.00}$
 $= \underline{\text{Rs} 482651.00}$
For such 02 nos. $2 \times \text{Rs} 482651.00 = \text{Rs} 965302.00$
5. Provision for ceiling (puff panels) $167 \text{ sqm} @ \text{Rs} 3000/\text{sqm}$
 $= \underline{\text{Rs} 5,01,000.00}$
Total = **Rs 14,66,302.00 - a**

6. Provision for;

i. Dismantling of ceiling and
Trusses after culmination of Yatra
And safe storage of material = Rs 40,000.00

ii. Assembling of trusses and ceiling
Before start of Yatra = Rs 80,000.00

For 10 years = 10 = Rs 1,20,000x10 = Rs 1,20,000.00
Total Amount (a+b) = **Rs 12,00,000.00 - b**
= **Rs 26,66,302.00**

Add 5% above (2% on unforeseen items and 3%
On contingency & watch & word charges)

for **Rs 26,66,302.00**

= Rs 1,33,315.00

Grand Total = Rs 27,99,617.00

Say Rs 28.00 lakh

(for two no. dormitories)

ESTIMATE No. 03

Detailed estimate for Fabrication, Supply and Installation of three tier bunk beds for 02 no. dormitories at Lower Holy Cave.

1. Fabrication, supply and installation of three tier bunk beds of two no. dormitories having a size 60'-0"x20'-0" each at Lower Holy Cave
2x26@Rs20000/each = **Rs 10,40,000.00**
Say Rs 10.40 lakh