

Working Estimate for Construction of Goat Shed - I at Jaring

- 1 Excavation of foundation in all kinds of soil including dressing & leveling the bed and depositing the soil away from working area within all lead & lift etc. complete finished as per the direction of Engineer-in-charge
- $16 \times 4' \times 4' \times 4' = 1024$
 $2 \times 97' \times 2'6'' \times 2'0'' = 970.00$
 $12 \times 5'10'' \times 2'6'' \times 2' = 349.80$
 $4 \times 98'10'' \times 2'6'' \times 3' = 2964.90$
 Gabble wall – $4 \times 6' \times 2'6'' \times 3' = 180.00$
 $2 \times 3'10'' \times 2'6'' \times 3' = 57.45$
 $8 \times 6' \times 2'6'' \times 2' = 240.00$
5786.15 cft
 Deduct / Pillar = $16 \times 4' \times 4' \times 4' = - 1024.00$
4762.15 cft or say 134.76 cum
@ 4410/cum.....
-
- Rs. 5943.00
- 2 Filling in foundation & plinth with sand well watered and rammed with cost carriage, Royalty, Taxes etc. of sand, all labour, T & P etc. complete finished as per the direction of the Engineer-in-charge
- $16 \times 4' \times 4' \times 4'' = 84.48$
 $2 \times 97' \times 2'6'' \times 4'' = 160.05$
 $12 \times 5'10'' \times 2'6'' \times 4'' = 57.72$
 $4 \times 98'10'' \times 2'6'' \times 4'' = 326.13$
 $4 \times 6' \times 2'6'' \times 4'' = 19.80$
 $2 \times 3'10'' \times 2'6'' \times 4'' = 6.31$
 $8 \times 6' \times 2'6'' \times 4'' = 39.60$
694.09 cft
 (-) $16 \times 4' \times 4' \times 4'' = (-) 84.48$
 Net - 609.61 cft or say 17.25 cum
@ 230.00
-
- Rs. 3968.00
- 3 Cement concrete (1:3:6) using 4cm. size H.G. metal in foundation with cost carriage, Royalty, Taxes etc. of all materials, all labour T & P etc. complete finished as per the direction of the Engineer-in charge with adequate curing for required days
- Qnty. of Item No. 2 = 17.25 cum
@ 2700/cum.....
-
- Rs. 46575.00
- 4 R.C.C (1 : 2 : 4) using 12mm size H. G. C. B. chips including centering, shuttering False work etc. and dismantling the same after completion of work on required days with cost, carriage, royalty, Taxes etc. of all materials, all labour, T & P etc., complete finished with adequate curring for required days and as per the direction of the Engineer-in-charge.
- a) Col Base
- $16 \times 4' \times 4' \times 9'' = 192$
 $16 \times \frac{4' \times 4' + 1'3'' \times 1'3''}{2} \times 1' = 140.50$
332.50 cft or 9.40 cum
@ 3685/cum.....
-
- Rs. 34639.00
- b) Coloumn
- $16 \times 10'' \times 10'' \times 10'10'' = 119.37$
 $4 \times 10'' \times 10'' \times 3' = 8.26$
127.63 cft or say 3.61 cum

	@ 5857/cum.....	Rs. 21144.00
c) Grade Beam		
	2 x 23'6" x 10" x 6' = 19.50	
	4 x 94' x 10" x 6" = 156.04	
	8 x 7'9" x 10" x 6" = <u>25.73</u>	
	201.27 cft or say 5.69 cum	
	@ 3900.00	Rs. 22191.00
d) Lintel		
	2 x 23'6" x 10" x 6" = 19.50	
	2 x 94' x 10" x 6" = <u>78.02</u>	
	97.52 cft or say 2.75 cum	
	@ 5700/cum.....	Rs. 15675.00
e) Chajja		
	1 x 7' x 1'6" = 10.50 sft or say 0.98 sqm	
	@ 470.00	Rs. 461.00
5	Labour charges for cutting, bending, binding of M.S. rod with supply of M.S. rod of approved brand i.e. SAIL/TATA with cost, Carriage, Taxes etc. of M.S. Rod and binding wire and lying the same at the approved place on approved design etc. complete finished as per the direction of the Engineer-in-Charge =19.70 Qntl.	
	@ 6470.00/Qntl.....	Rs. 127459.00
6	Brick masonry in C.M.(1:6) in F&P using good quality brick having c/s 100 to 149 Kg/Cm2 with cost, carriage, royalty ,taxes etc. of all materials, all labour, T&P etc. complete finished as per the direction of the Engineer-in-charges with adequate Curring for required days & immersion of bricks in water before 24 hours of use.	
	Paddock – 2 x 98'6" x 1'8" x 1' = 327.02	
	12 x 6'8" x 1'89" x 1' = 132.66	
	2 x 98'6" x 1'3" x 1'2" = 285.65	
	12 x 7'1" x 1'3" x 1'2" = 123.19	
	Shed – 4 x 95'6" x 2'0" x 2'3" = 1719.00	
	12 x 6'7" x 2' x 2'3" = 354.78	
	4 x 95'6" x 1'6" x 1'4" = 762.09	
	12 x 7'4" x 1'6" x 1'4" = 175.48	
	2 x 5'6" x 2' x 2'3" = 49.50	
	2 x 5'6" x 1'3" x 1'4" = <u>18.28</u>	
	3947.65	
	Pillar (-) 16 x 10" x 10" x 3'7" = <u>(-) 39.34</u>	
	3908.31	
	Ramp – 2 x 9' x 10" x 1' = 14.94	
	1 x 7' x 10" x 6" = <u>2.91</u>	
	3926.16 cft or 111.11 cum	
	@ 1840 /cum.....	Rs. 204442.00
7	Brick masonry in C.M.(1:6) in Suptt. using good quality .brick having c/s 100 to 149 Kg/Cm2 with cost, carriage, royalty ,taxes etc. of all materials, all labour, T & P etc. complete finished as per the direction of the Engineer-in-charges with adequate Curring for required days & immersion of bricks in water before 24 hours of use	
	2 x 95'6" x 10" x 6'4" = 1003.49	
	12 x 7'6" x 10" x 6'4" = 472.85	
	2 x 95'6" x 10" x 8' = 1268.24	
	12 x 7'9" x 10" x 4'2" = 321.11	
	2 x 95'6" x 10" x 4'2" = 659.48	
	4 x 7'9" x 10" x 3'10" = 98.54	

	$6 \times 7'6'' \times 10'' = 37.35$ Top of wall – $4 \times 94'10'' \times 10'' = 314.84$ $12 \times 7'6'' \times 10'' = 74.70$ $8 \times 7'9'' \times 10'' = 51.46$ $10 \times 5' \times 5'' = 20.50$ $30 \times 1'4'' \times 5'' = 16.36$ <u>673.74 sft</u>	
	Deduct -	
	$10 \times 3' \times 10'' (-) 24.90$ 648.84 sft or 60.28 sqm @ 133.00/sqm.....	<u>Rs. 8017.00</u>
12	16 mm thick cement plaster in C.M.(1:6) over brick work with cost, carriage, royalty, taxes etc. of all materials, all labour, T & P scaffolding charges etc. complete finished as per the direction of the Engineer-in-charge with adequate Curring for required days $2 \times 94'10'' \times 5'0'' = 948.30$ $8 \times 7'9'' \times 4'7'' = 283.34$ $20 \times 7'6'' \times 6'4'' = 949.50$ $10 \times 18' \times 4'2'' = 748.80$ $2 \times 10 \times 18' \times 8'5'' = 3027.60$ $10 \times 9' \times 2' = 180.00$ Gable – $2 \times 15'6'' \times 8' = 248.00$ $\frac{1}{2} \times 2 \times 21'10'' \times 4' = 87.32$ <u>6472.86 sft or 601.33 sqm</u> @ 67.00/sqm	<u>Rs. 40289.00</u>
13	12 mm thick cement plaster in C.M.(1:6) over brick work with cost, carriage, royalty, taxes etc. of all materials, all labour, T & P scaffolding charges etc. complete finished as per the direction of the Engineer-in-charge with adequate Curring for required days $2 \times 95'6'' \times 9'8'' = 1845.06$ $2 \times 23'6'' \times 10' = 470.00$ $2 \times \frac{1}{2} \times 23'6'' \times 4' = 94.00$ Parapet – $4 \times 12' \times 2'10'' = 135.84$ <u>2544.90 sft</u> Deduct – $10 \times 3' \times 4'2'' = - 124.80$ $10 \times 3' \times 6'6'' = - 195.00$ - 319.80 Net – $2544.90 - 319.80 = 2225.10$ sft or 206.71 sqm @ 46.01 / sqm.....	<u>Rs. 9511.00</u>
14	Providing M.S. D & W made up of M.S. Angle & Flat including cost, carriage, labour T & P taxes etc. complete including the cost of Febrication = 20 Nos. = 9.60 Qntl @ 7500/Qntl.	<u>Rs. 72000.00</u>
15	Providing fitting, fixing M.S. Grill & Gate F.V. opening including cost, carriage, labour T & P taxes etc. complete including the cost of Febrication 361.50 sft or 9.04 Qntl. @ 7000/Qntl.....	<u>Rs. 63280.00</u>
16	Supply fitting fixing of Iron trusses 50 x 50 x 6 mm $2 \times 2 \times 14'3'' = 57.00$ $2 \times 27'4'' = 54.66$ $4 \times 4' = 16.00$ $2 \times 4'3'' = 8.50$	

$2 \times 3'1'' = 6.16$
 $2 \times 3'5'' = 6.82$
 $2 \times 2'2'' = 4.32$
 $2 \times 3' = 6.00$
 $2 \times 1'3'' = 2.50$
 $\text{Clit} - 6 \times 8'' = \underline{3.96}$

165.92 sft or 5.57 sqm @ 4.5 = 227.56 Kg

Plate (8 gauge)

$2 \times 10'' \times 10'' = 1.38$
 $4 \times 4' \times 10'' = 13.28$
 $8 \times 3' \times 8'' = \underline{15.84}$

30.50 or 2.83 sqm @ 24 Kg/ sqm = 67.92 Kg

295.48 Kg

5% 14.77

310.25 Kg

9 x 310.25 = 2792.25 Kg

@ 65.70/Kg.

Rs.183451.00

17 Supply fitting fixing of Perlin

6 x 95' = 570.00

Clit 6 x 5 x 2' = 60.00

630.00 sft or 192.02 sft @ 4.5 = 864.09 Kg

@ 65.70/Kg.....

Rs. 56771.00

18 Supply, fitting fixing & laying of GCI Sheet

2 x 26 x 14' x 4' = 2912.00 sft or 270.52 sqm

@ 290.00/sqm.....

Rs.78451.00

19 Water proof cement paint two coat over a coat of cement wash using approved shade and brand of cement paint with cost carriage, taxes etc. of all materials, all labour T&P etc. complete finish as per the direction of the Engineer-in-charge Qtny. Of Item No 12 & 13 = 601.33

206.71

808.04 Sqm

@ 22/sqm.....

Rs. 17777.00

20 Painting two coat over a coat of primer on wood and MS work using approved brand and shade of paint and primer including cost, carriage, labour T & P taxes etc. complete

2.25 x 319.80 = 719.55 sft

0.50 x 361.50 = 180.75 sft

900.30 sft or 83.64 sqm

@ 67/sqm.....

Rs. 5604.00

21 Supply, fitting fixing of Bomboo mat inside the shed

10 x 14' x 7'9'' = 1085 sft

@ 30/sft.....

Rs. 32550.00

24 Cost of L. Hook & Washer

Rs. 15000.00

Rs. 13,88,658.00

25 Provision of Electrical wiring, fitting of light, Fan , tab & Water supply & Drainers System (As per Voucher)

Rs. 156000.00

25 Supervision 2 %

Rs. 27773.00

26 Labour cess 1%

Rs.13886.00

Total Rs. 15,86,317.00

Or say Rs. 15,85,823.00

REPORT

This is working estimate amounting to Rs. 15,85,823/- (Rupees Fifteen Lakhs Eighty five Thousand Eight Hundred Twenty Three) only for Construction of Goat Shed No. 1 at Jaringi Goat Farm, District Kalahandi.

It is completely RCC frame structure building with strong Grade Beam provisioned at plinth level. The roof work is to be done with angular trusses & GCI Sheet.

The rate quoted in the estimate is as per the approved tender rate. The electrification & water line connection, tentative provision has been made in the estimate.

Asst Engineer (Civil)

GOVERNMENT OF ORISSA



(Directorate of A.H. & V.S., Orissa)

**NAME OF THE WORK : Working Estimate for Construction of
Goat Shed-I at Jaringi, Kalahandi**

ESTIMATED COST : Rs. 15, 85, 823/-