

Working Estimate for Construction of Goat Shed – II 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
Pillar- $18 \times 4' \times 4' \times 4' = 1152.00$
Outside paddock wall
 $1 \times 32' \times 2'6'' \times 2'0'' = 160.00$
 $1 \times 76'9'' \times 2'6'' \times 2'0'' = 383.75$
 $14 \times 6'10'' \times 2'6'' \times 2'0'' = 478.10$
 $14 \times 7'8'' \times 2'6'' \times 2'0'' = 536.20$
Inside shed
 $2 \times 75' \times 2'6'' \times 2'0'' = 750.00$
 $2 \times 3'4'' \times 2'6'' \times 2' = 33.30$
 $12 \times 11'10'' \times 2'6'' \times 2' = 709.80$
4203.15 cft or 118.95 cum
@ 4410/100 cum Rs. 5246.00
- 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
 $18 \times 4' \times 4' \times 6'' = 144.00$
 $1 \times 32' \times 2'6'' \times 4'' = 26.40$
 $1 \times 76'9'' \times 2'6'' \times 4'' = 63.32$
 $14 \times 6'10'' \times 2'6'' \times 4'' = 78.89$
 $14 \times 7'8'' \times 2'6'' \times 4'' = 88.47$
 $2 \times 75' \times 2'6'' \times 4'' = 123.75$
 $2 \times 3'4'' \times 2'6'' \times 4'' = 5.49$
 $12 \times 11'10'' \times 2'6'' \times 4'' = 117.11$
647.43 cft or 18.32 cum
@ 230.00 Rs. 4214.00
- 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
 $18 \times 4' \times 4' \times 6'' = 144.00$
 $1 \times 32' \times 2'6'' \times 6'' = 40.00$
 $1 \times 76'9'' \times 2'6'' \times 6'' = 95.94$
 $14 \times 6'10'' \times 2'6'' \times 6'' = 119.52$
 $14 \times 7'8'' \times 2'6'' \times 6'' = 134.05$
 $2 \times 75' \times 2'6'' \times 6'' = 187.50$
 $2 \times 3'4'' \times 2'6'' \times 6'' = 8.32$
 $12 \times 11'10'' \times 2'6'' \times 6'' = 177.45$
906.78 cft or 25.66 cum
@ 2700/cum..... Rs. 69282.00
- 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
 $18 \times 4' \times 4' \times 9'' = 216.00$
 $18 \times \frac{4' \times 4' + 1' \times 1' \times 1'}{2} = 153.00$
369.00 cft or 10.44 cum
@ 3685.00 Rs. 38471.00

b) Coloumn	$14 \times 10'' \times 10'' \times 12'4'' = 118.92$ $4 \times 10'' \times 10'' \times 16'4'' = 44.99$ $163.91 \text{ cft or } 4.64 \text{ cum}$ $@ 5857/\text{cum}.....$	<u>Rs. 27176.00</u>
c) Grade Beam	$4 \times 76'9'' \times 10'' \times 6'' = 127.40$ $14 \times 8'6'' \times 10'' \times 6'' = 49.38$ $2 \times 5' \times 10'' \times 6'' = 4.15$ $180.93 \text{ cft or } 5.12 \text{ cum}$ $@ 3900.00$	<u>Rs. 19968.00</u>
d) Lintel	$2 \times 76'9'' \times 10'' \times 6'' = 63.70$ $2 \times 2 \times 8'6'' \times 10'' \times 6'' = 14.11$ $2 \times 5' \times 10'' \times 6'' = 4.15$ $81.96 \text{ cft or } 2.32 \text{ cum}$ $@ 5700/\text{cum}.....$	<u>Rs. 13224.00</u>
e) Chajja	$1 \times 6'6'' \times 1'6'' = 9.75 \text{ cft or } 0.91 \text{ sqm}$ $@ 470.00$	<u>Rs. 428.00</u>
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 =21 Qntl. $@ 6470.00/\text{Qntl}.....$	<u>Rs. 135870.00</u>
6	C. C (1 : 2 : 4) at DPC Level $1 \times 76'9'' \times 10'' \times 2'' = 10.19$ $1 \times 32' \times 10'' \times 2'' = 4.25$ $14.44 \text{ cft or } 0.41 \text{ cum}$ $@ 3580/\text{cum}$	<u>Rs. 1468.00</u>
7	R. R. Stone Masonary in C.M. (1 : 6) in F & P with cost, carriage, Royalty, Taxes etc. of all materials, all labor, T &P etc. complete finished as per the direction of the Engineer-in-charge with adequate curring for required days. Inside shed – $2 \times \frac{75'3'' \times 2' + 1'8'' \times 3'0''}{2} = 826.24$ $12 \times \frac{11'10'' \times 2' + 1'8'' \times 3'}{2} = 779.36$ $14 \times \frac{7' \times 2' + 1'8'' \times 3'}{2} = 538.02$ $2 \times 5 \times \frac{2' + 1'8'' \times 3'}{2} = 54.90$ Outside the shed- $1 \times 76'9'' \times 1'8'' \times 3'2'' = 402.60$ $1 \times 32' \times 1'8'' \times 3'2'' = 167.86$ $14 \times 7'7'' \times 1'8'' \times 3'2'' = 555.93$ Ramp – $2 \times 7' \times 10'' \times 2' = 23.24$ $1 \times 7' \times 10'' \times 6'' = 2.90$ $3351.05 \text{ cft or } 94.83 \text{ cum}$ $@ 1454/\text{cum}.....$	<u>Rs. 137883.00</u>
8	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	

	Gable – 4 x 8'6" x 10" x 9'7" = 270.06	
	2 x 5' x 10" x 9'7" = 79.43	
	2 x 1/2 x 25'9" x 10" x 4'5" = 94.25	
	Parapet – 4 x 10' x 10" x 1' = 33.20	
	2 x 75'3" x 10" x 4' = 499.66	
	10 x 8'6" x 10" x 4' = 282.20	
	12 x 11'10" x 10" x 9'7" = 1127.60	
	1 x 76'9" x 10" x 6' = 382.21	
	1 x 32' x 10" x 6' = 159.36	
	14 x 8' x 10" x 6' = 557.76	
	Parapet – 14 x 5' x 5" x 1'6" = 43.05	
	14 x 3 x 1'4" x 5" x 1'6" = 34.35	
	Brick Pillar in Boundary	
	24 x 1'3" x 5" x 6' = 73.80	
	Shed Pillar – 12 x 1'3" x 5" x 9'7" = 58.85	
	Wooden platform stand	
	2 x 6 x 3 x 5" x 6'4" x 10" = 77.55	
	2 x 6 x 10" x 8'6" x 10" = <u>70.27</u>	
	3843.60 cft	
	Deduct – D – 12 x 3' x 10" x 6'6" = -194.22	
	12 x 3' x 10" x 4' = - 119.52	
	Net – 2 x 6 x 4' x 10" x 1'6" = - <u>59.76</u>	
	- 373.50	
	Net = 3843.60 – 373.50 = 3470.10 cft or 98.20 cum	
	@ 1875/cum.....	Rs. 184125.00
9	Supply, fitting, fixing of Ms welded zalli, grill for Doors & opening with angular frame	
	2 x 6 x 4' x 1'6" = 72.00 sft	
	1 x 7' x 5' = 35.00	
	Feeder grill	
	12 x 3' x 6'6" = 234.00	
	D - 12 x 4' x 3' = <u>144.00</u>	
	485.00 sft @ 2.50 = 1212.50 Kg	
	@ 70/Kg....	Rs. 84875.00
10	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	
	12 x 11'10" x 8' x 1'6" = 1703.52 cft	
	12 x 11'10" x 8'6" x 1'9" = 2111.65	
	1 x 75'3" x 5' x 1'9" = <u>658.44</u>	
	4473.61 cft or 126.60 cum	
	@ 230.00	Rs. 29118.00
11	Cement concrete (1:3:6) using 4cm. size in flooring 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	
	12 x 11'10" x 8' x 4" = 374.77	
	12 x 8'6" x 3'0" x 4" = 100.98	
	1 x 75'3" x 5' x 4" = <u>124.16</u>	
	599.91 cft or 16.98 cum	
	@ 2700/cum.....	Rs. 45846.00
12	CC (1:2:4) using 12 mm chips in flooring 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.	
	12 x 11'10" x 8' x 2" = 181.71	
	12 x 8'6" x 3' x 2" = 48.96	
	1 x 75'3" x 5' x 2" = <u>60.20</u>	
	290.87 cft or 8.23 cum	
	@ 3580/cum.....	Rs. 29463.00

- 13 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
- 4 x 75'3" x 4' = 1204.00
4 x 70' x 9'7" = 2679.60
20 x 8'6" x 4' = 680.00
2 x 24' x 9'7" = 459.36
2 x 1/2 x 25'9" x 5' = 128.75
24 x 8' x 6' = 1152.00
2 x 11'10" x 6' = 141.96
Watervat – 12 x 3 x 1'4" x 3'5" = 163.27
12 x 5' x 3'5" = 204.60
6813.54 sft
- Deduct –
D – 12 x 3' x 6'6" = - 234
12 x 3' x 4' = - 144.00
Net – 2 x 6 x 4' x 1'6" = - 72.00
10 450.00
Net – 6813.54 – 450 .00 = 6363.54 sft or 591.17 sqm
@ 67/sqm.....
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- Rs. 39608.00
- 14 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
- 1 x 76'9" x 7'6" =575.62
1 x 32' x 7'6" = 240.00
4 x 9' x 7'6" = 270.00
2 x 25'9" x 9'7" = 492.85
2 x 1/2 x 25'9" x 5' = 128.75
Parapet – 4 x 10' x 3' = 120.00
1827.22 sft or 169.75 sqm
@ 46.01 / sqm.....
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- Rs. 7810.00
- 15 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
- Qty of Item No. 13 & 14 = 591.17 sqm
169.75 sqm
760.92 sqm
@ 22/ sqm.....
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- Rs. 16740.00
- 16 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 378 = 850.50
0.50 x 341.00 = 170.50
1021 sft or 94.85 sqm
@ 67/sqm.....
-
- Rs. 6355.00
- 17 Supply, fitting, fixing of Bamboo mats
12 x 8' x 9' = 864.00 sft
@ 30 / sft.....
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- Rs. 25920.00
- 18 Supply, fitting, fixing & laying of GCI Sheet

	42 Nos. x 14' x 4' = 2352 sft or 218.50 sqm @ 290/sqm.....	<u>Rs. 63365.00</u>
19	Supply, fitting, fixing hoisting of Tusses 40 x 40 x 6 2 x 12'9" = 25.50 2 x 24'9" = 49.50 1 x 4' = 4.00 2 x 5' = 10.00 2 x 3' = 6.00 2 x 3'9" = 7.50 2 x 2'2" = 4.32 2 x 3'5" = 6.82 2 x 1'2" = <u>2.32</u> 115.96 sft or 35.34 sqm @ 3.5 = 123.69 Kg Plat – 8 (Gauge) 2 x 10" x 10" = 1.38 4 x 4" 10" = 1.10 8 x 3" x 8" = <u>1.32</u> 3.80 sft or 0.35 sqm @ 24 Kg / sqm = 8.40 Kg 132.09 Kg 5 % <u>6.60</u> 138.69 Kg 5 x 138.69 = 693.45 Kg or @ 65.70 / Kg	<u>Rs. 45561.00</u>
20	Supply fitting fixing of Perlin 35 x 35 x 5 8 x 76'6" = 612.00 Joints- 8 x 4 x 2' = <u>64.00</u> 676.00 sft or 206.04sqm @ 2.6 = 535.70 Kg @ 65.70/Kg.....	<u>Rs. 35195.00</u>
21	Cost of L. Hook & Washer	<u>Rs. 12000.00</u>
23	Supply, fitting, fixing of RCC Zali 12 x 4' x 1'6" = 72 sft or 6.69 sqm @ 330 / sqm.....	<u>Rs. 2208.00</u>
24	Provision of Electrical wiring, fitting of light, Fan , tab & Water supply & Drainage System & Wind tile (As per Voucher)	<u>Rs. 165000.00</u>
	Supervision 2 %	<u>Rs. 21,628.00</u>
	Labour cess 1%	<u>Rs.10,814.00</u>
	Total	<u>Rs. 12,78,861.00</u>
	Limited to	<u>Rs. 12,76,298.00</u>

REPORT

This is working estimate amounting to Rs. 12,76,298/- (Rupees Twelve Lakhs Seventy Six Thousand Two hundred Ninety Eight) only for Construction of Goat Shed No. II 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-II at Jaring, Kalahandi**

ESTIMATED COST : Rs. 12, 76, 298/-