

**Part A**  
**Model cost Detailed and Abstract Estimate**

**Name of work:** Model estimate of construction cattle sheds with kutcha floor

**Financial Year : 2015-16**

**Head of Account** = Mahatma Gandhi NREGS Karnataka

**Important notes**

- 1a. Some of the rates adopted in this estimate are as per PW, P & IWTD, schedule of rates of Bengaluru circle for 2014-15 continued for 2015-16.
- 1b. The area weightage pertaining to the respective areas to be adopted as per respective schedule of rates of respective circles of respective departments.
2. Some of the rates adopted in this estimate are also Nrega SoR for year 2015-16.
3. This is only a model estimate, the Officer/Engineer-in-charge should visit the site and prepare the estimate based on (i) Actual site conditions. (ii) Foundation to be designed as per existing geological conditions.
4. The overall variations in the cost should not exceed 10% of the estimated cost. In case if it exceeds 10% same should be got approved from the Commissionerate.
5. KTPP 1999 should be followed while tendering and procurement of materials

Sl. No	Item as per SoR (prevailing nrega or line dept or As approved Data Sheet)	Unit	Measurements					Rate (in Rs)	Amount I (in Rs) (col 8 x col 9)
			No	Length (in Mt)	Breadth (in Mt)	Depth (in Mt)	Quantity		
1	2	3	4	5	6	7	8	9	10
1	Earth work Excavation in ordinary soil for roads, rock fill dams desilting of tanks for construction of contour/ graded bunds in Black soil /Red sandy soils /Kankar/ Gravelly soils/Late rite soils (Narega S.R page-1, item No.2A)	cum	1	7.00	4.00	0.2	5.6	198.06	1109.14
2	KSRB 2.8: Providing and Filling in foundation with granite/trap broken metal 100 mm. & down size with approved sand including hand packing ramming watering, including cost of all materials and labour with all lead lift. Complete as per specifications. (PWD.SR 2014-15 page -6 item No.2.15)	cum	1	7.00	4.00	0.10	2.80	1817.00	5088.00
3	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.465 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. Thick well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. ( PWD. SR. 2014-15 page- 12, 4.2)	cum	1	7.00	4.00	0.1	2.8	4689.00	13129.00
4	KSRB 5-13:- Providing and constructing non-load bearing wall with cement concrete cavities blocks (hollow blocks) of proportion 1:1.5:3 blocks of size 40x10x20cms. (lxbxh) strength not less than 3.5 (PWD SR 2014-15 page 24 item 5.26)	sqm	1 1 2	7.0 7.0 0.3	-	1.1 0.80 0.5	7.7 5.6 0.30 13.60	656.00	8921.0000
5	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 sms. Thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. (PWD SR 2014-15 page 12 item 4.6)	cum	1	7.00	0.50	0.075	0.26	4933.00	1283.00
6	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5m. including cost of all labour complete as per specifications. No. KBS 2.9 (PWD SR page -6 item 2.10)	cum	1	7.00	0.50	0.50	1.75	110.00	193

7	KSRB 15-3.14 :- Providing 12mm thick cement plaster in single coat with cement mortar 1:3 to ceiling including rounding off corners wherever required smooth rendering, : Providing & removing scaffolding, including cost of materials, labour, curing complete as per specifications. do -cement mortar 1:4 (PWD SR page -110 item 15.22)	sqm	1	7.00		1.10	7.7		
			1	7.00		0.60	4.2		
			1	7.00	-	0.30	2.1		
			1	7.00		0.80	5.6		
							<u>19.60</u>	159.00	3116.00
	Sub Total								32839.14
8	Add 1% for technical supervision								328.00
9	Add for sharpening charges 28x@10 per day per person	-	-	-	-	-	-	-	280.00
10	Name board and rounding off	-	-	-	-	-	-	-	1553.00
<b>TOTAL</b>									<b>35000.14</b>

Sign of Engineer	Sign of PDO /Secretary and Seal	Sing of President of GP and Seal
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**Part B  
Detailed Estimation (Calculation) of labour and Material requirement**

Name of work =  
Financial year =  
Head of Account =

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2015-16  
Mahatma Gandhi NREGS Karnataka

Sl no	Item as per SoR(prevaling nrega or line dept or As per approved Data Sheet) as in part A detailed and abstract estimate	Unit	Quantity	Coeff for unskilled labour	Un skilled Labour Component			Total amt	Amount (in Rs) (col 9-col 8)
					No of Person days/(col 4Xcol 5)	Wage rate for 2015-16 fixed by GOI/MORD	Amount (in Rs)/(col 5 x col 6)		
1	2	3	4	5	6	7	8	9	10
1	Earth work Excavation in ordinary soil (Narega S.R page-1, item No.2A of 2015-16)	cum	5.60	0.97	5.43	204.00	1108.13	1109.00	0.87
2	Filling and Foundation with brocken metal (PWD SR.2014-15 Page 6, item No.2.15)	cum	2.80	0.50	1.40	204.00	285.60	5088.00	4802.40
3	Providing and laying in position plain cement concrete of mix 1:3:6 ( PWD. SR. 2014-15 page- 12, 4,2)	cum	2.80	3.18	8.90	204.00	1816.42	13129.00	11312.58
4	Providing and constructing non-load bearing wall with cement concrete cavities blocks (hollow blocks) (PWD SR 2014-15 page 24 item 5.26)	sqm	13.60	0.30	4.08	204.00	832.32	8921.0000	8088.68
5	Providing and laying in position plain cement concrete of mix 1:2:4 (PWD SR 2014-15 page 12 item 4.6)	cum	0.26	3.18	0.83	204.00	168.67	1283.00	1114.33
6	Filling available excavated earth (excluding rock) (PWD SR Page -6 item 2.10)	cum	1.75	0.40	0.70	204.00	142.80	193	50.20
7	Providing 12 mm thick cement plaster (PWD SR page - 110 item 15.22)	sqm	19.60	0.31	6.08	204.00	1239.50	3116.00	1876.50
9	Add 1% for technical supervision								328.00
10	Add for sharpening charges 52x@10 per day per person								280
11	Name board and rounding off								1553
	<b>Total</b>				<b>27.42</b>			<b>5593.44</b>	<b>29406.56</b>

Say 28  
Unskilled Labour percentage - 5593/35000 = 0.15981 e 15.98 %  
Material percentage 100-15.98 = 84.02%  
Sign of Engineer  
Sign of PDO/Secretary and seal

Note