

Part - A
Model Cost Detailed and Abstract Estimate

Name of Work: Model Estimate for Construction Threshing Yard

Financial Year: 2015-16

Head of Account: MGNREGS

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.

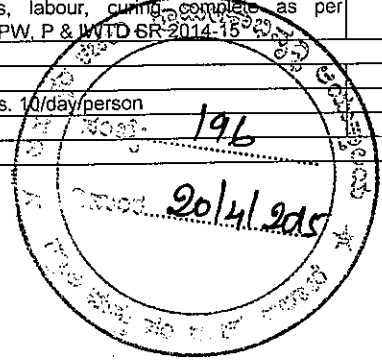
2. Some of the rates adopted in this estimate are also Nrega SoR for year 2015-16.

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. KPPP 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 (in Rs.) (Col 8 x 9)
			No.	Length	Breadth (in Mtr.)	Depth (in Mtr.)	Quantity		
1	2	3	4	5	6	7	8	9	10
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. Specification. No. KBS 2.1(a) / 2.3.1 (Page no. 5/ I-2.4). PW, P & IWTD SR - 2014-15	Cum	1	9.00	9.00	0.15	12.15	198.06	2,406.43
2	KSRB 2-2.2: Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5 m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead up to 50 m. after breaking of clods complete as per Specifications. Specification. No. KBS 2.1(b)/2.3.5. (Page no. 5/ I-2.4). PW, P & IWTD SR - 2014-15	Cum	2	9.00	0.40	0.40	2.88		
		Cum	2	8.20	0.40	0.40	2.62		
							5.50	198.06	1,090.12
3	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix M10 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 [P.No.12 / I.No.4.2] PW, P & IWTD SR 2014-15	Cum	2	9.00	0.40	0.15	1.08		
	Long Wall	Cum	2	8.20	0.40	0.15	0.98		
	Short Wall						2.06	4,689.00	9,678.10
4	KSRB 5-2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13. [P.No.25 / I.No.5.6] PW, P & IWTD SR 2014-15	Cum	2	9.00	0.38	0.60	4.10		
	Long Wall	Cum	2	8.22	0.38	0.60	3.75		
	Short Wall						7.85	2,831.00	22,229.92
5	KSRB 2.5 : Earthwork excavation (in deposited soil) and filling sides of foundation upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications. specification. No. KBS 2.9.9 / 2.9.10.1 / 2.1.1. (Page no. 6/ I-2.12). PW, P & IWTD SR - 2014-15	Cum	1	8.20	8.20	0.50	33.62	219.00	7,362.78
6	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregates @ 0.43cum, with superplasticiser @3lts conforming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.7 (P. No. 11.4.51 PW, P & IWTD -SR 2014-15)	Cum	1	9.00	9.00	0.15	12.15	5,419.00	65,840.85
7	KSRB 15.1.3 Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. [P.No.119 / I.No.15.3] PW, P & IWTD SR 2014-15	Sqm	4	9.00		0.38	13.68	86.00	1,176.48
								Total	1,09,784.68
8	Add 1% for Technical Supervision								1,097.85
9	Add for sharpening charges 100x@Rs. 10/day/person								1,000.00
8	Name board and rounding off								2,117.48
								Grand Total	1,14,000.00



Sign of Engineer

Sign of PDO / Secretary and Seal

Sign of President of GP and Seal

Part - B
Detailed Estimation (Calculation) of Labour and Material requirement

Name of Work: Model Estimate for Construction Thrashing Yard
Financial Year: 2015-16
Head of Account: MGNREGS

Sl.No.	Item as per SOR (Prevailing NREGA or Line Dept., or as approved Data Sheet) as in Part - A detailed and abstract estimate	Unit	Qty	Coeff for unskilled labour	Unskilled Labour Component				Total Amt.	Skilled, Semi skilled wage and Material component including essential machinery like rollers etc but excluding unskilled labour displacing machinery Amount (in Rs.)(Col 9 - 8)
					No. of Person Days	Wage rate for 2015-16 fixed by Gov, MoRD	Amount (in Rs.) (Col 6 x 7)			
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification No. KBS 2.1(a) / 2.3.1 (Page no. 5/1-2.4). PW, P & IWTD SR - 2014-15	Cum	12.15	0.97	11.79	204.00	2,404.24	2,406.43	2.19	
2	KSRB 2-2.2: Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5 m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead up to 50 m. after breaking of clods, complete as per Specifications. Specification No. KBS 2.1(b)/2.3.5. (Page no. 5/1-2.4). PW, P & IWTD SR - 2014-15	Cum	5.50	0.97	5.34	204.00	1,089.13	1,090.12	0.99	
3	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix M10 with OPC cement @ 220kgs with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, cost of all materials, labour, H.O.M of machinery, curing complete, as per specifications. Specification No. KBS 4.1, 4.2 (P.No.25 / I.No.4.2) PW, P & IWTD SR 2014-15	Cum	2.06	3.18	6.56	204.00	1,338.96	9,678.10	8,339.14	
4	KSRB 5-2.3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13. (P.No.25 / I.No.5.6) PW, P & IWTD SR 2014-15	Cum	7.85	2.40	18.85	204.00	3,844.50	22,229.92	18,385.42	

5	KSRB 2.5 : Earthwork excavation (in deposited soil) and filling sides of foundation upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications. specification. No. KBS 2.9.9 / 2.9.10.1 / 2.1.1. (Page no. 6/1-2.12). PW, P & IWTD SR - 2014-15	Cum	33.62	0.40	13.45	204.00	2,743.39	7,362.78	4,619.99
6	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs. with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregates @ 0.43cum, with superplasticiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.7 (P. /1.4.51 PW, P & IWTD -SR 2014-15)	Cum	12.15	3.18	38.64	204.00	7,881.95	65,840.85	57,958.90
7	KSRB 15.1.3 Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. [P.No.119 / I.No.15.3] PW, P & IWTD SR 2014-15	Sqm	13.68	0.17	2.33	204.00	474.42	1,176.48	702.06
8	Add 1% for Technical Supervision							1,097.85	1,097.85
9	Add for sharpening charges 100x@Rs. 10/day/person							1,000.00	1,000.00
10	Name board and rounding off							2,117.48	2,117.48
Total			87.02032		96.94		19,776.59	1,14,000.00	94,223.41

Unskilled Labour Percentage : Rs. 19,776.59 / Rs. 1,14,000/- = 17.35%
Material Component Percentage : Rs. 100 - 17.35% = 82.65%

Sign of Engineer

Sign of PDO / Secretary and Seal

Sign of President of GP and Seal



MODEL ESTIMATE FOR
CONSTRUCTION OF THRASHING YARD

2015-16

