

Part - A
Detailed and Abstract Estimate

Name of Work: Model Estimate for Construction of Cement Concrete Road

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.

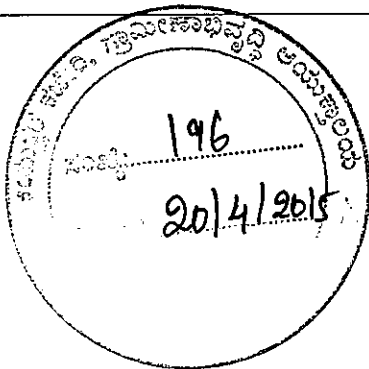
4. The overall variations in the cost should not exceed 10% of the estimated cost. In case if it exceeds 10% same should be got approved from the Commissionerate.

5. KTPP 1999 should be followed while tendering and procurement of materials

6. The Contractor profit of 10% should be deducted in case of departmental works.

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	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 (NREGS S.R Page-1, Item No. 2A)	Cum	1	100.00	4.00	0.10	40.00	198.06	7,922.40
2	KSRRB M300-53. Construction of embankment with approved material Gravel/Murum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications. (which includes cost of gravel/murum, watering charges & compaction by vibratory roller) (PW, P & IWTD S.R 2014-15, Page-144, Item No. 19.60)	Cum	1	100.00	4.00	0.15	60.00	204.00	12,240.00
3	KSRRB 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 @0.465cum 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 No. KBS 4.1, 4.2. (PW, P & IWTD S.R 2014-15, Page-12, Item No. 4.2)	Cum	1	100.00	3.75	0.10	37.50	4,689.00	1,75,837.50
4	KSRRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @240kgs, with 20mm and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15cms. Thick, well compacted, in foundation including cost of all materials, labour, HOM of Machinery, curing complete as per specifications No. 4.1, 4.2 (PW, P & IWTD S.R 2014-15, Page-12, Item No. 4.6)	Cum	1	100.00	3.75	0.10	37.50	4,933.00	1,84,987.50
5	KSRRB M2600-3. (ii) Providing & fixing 20 mm thick compressible fiber board in expansion joint complete as per drawing & Technical Specification MORTH Specification No. 2605. (PW, P & IWTD S.R 2014-15, Page-233, Item No. 31.3)	Rmtr	20	3.75			75.00	128.00	9,600.00
Total									3,90,587.40
6	Add 1% for Technical Supervision								3,905.87
7	Add for sharpening charges 285x@Rs. 10/day/person								2,850.00
8	Name board and rounding off								1,656.73
Grand Total									3,99,000.00

Sign of Engineer



Sign of PDO / Secretary and Seal

Sign of President of GP and Seal

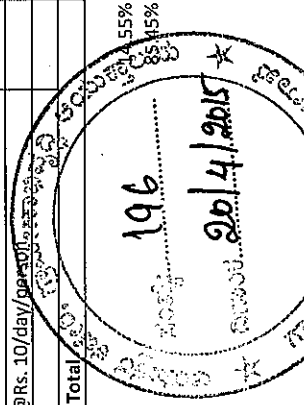
Part - B
Detailed Estimation (Calculation) of Labour and Material requirement

Name of Work: Model Estimate for Construction of Cement Concrete Road
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 Gol, MoRD	Amount (in Rs.) (Col 6 x 7)		
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 (NREGS S.R Page-1, Item No. 2A)	Cum	40.00	0.97	38.80	204.00	7,915.20	7,922.40	7.20
2	KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) (PW, P & IWTD S.R 2014-15, Page-144, Item No. 19.60)	Cum	60.00	0.10	6.00	204.00	1,224.00	12,240.00	11,016.00
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 @0.465cum 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 No. KBS 4.1, 4.2. (PW, P & IWTD S.R 2014-15, Page-12, Item No. 4.2)	Cum	37.50	3.18	119.25	204.00	24,327.00	1,75,837.50	1,51,510.50
4	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @240kgs, with 20mm and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15cms. Thick, well compacted, in foundation including cost of all materials, labour, HOM of Machinery, curing complete as per specifications No. 4.1, 4.2 (PW, P & IWTD S.R 2014-15, Page-12, Item No.4.6)	Cum	37.50	3.18	119.25	204.00	24,327.00	1,84,987.50	1,60,660.50
5	KSRRB M2600-3. (ii) Providing & fixing 20 mm thick compressible fiber board in expansion joint complete as per drawing & Technical Specification MORTH Specification No. 2605. (PW, P & IWTD S.R 2014- 15, Page-233, Item No. 31.3)	Rmtr	75.00	0.02	1.20	204.00	244.80	9,600.00	9,355.20
6	Add 1% for Technical Supervision							3,905.87	3,905.87
7	Add for sharpening charges 285x@Rs. 10/day/worker							2,850.00	2,850.00
8	Name board and rounding off							1,656.73	1,656.73
Total					250	284.50	58,038.00	3,99,000.00	3,40,962.00

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Unskilled Labour Percentage :
Material Component Percentage :



Sign of Engineer

Sign of PDO / Secretary and Seal

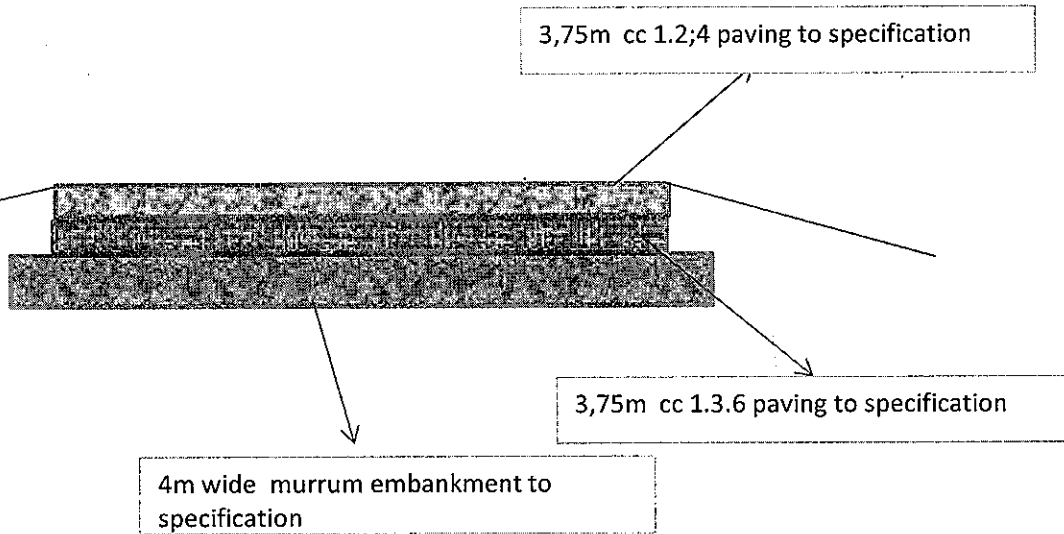
Sign of President of GP and Seal

Drawing sheet/Sheets like plan elevation 3D views sketches

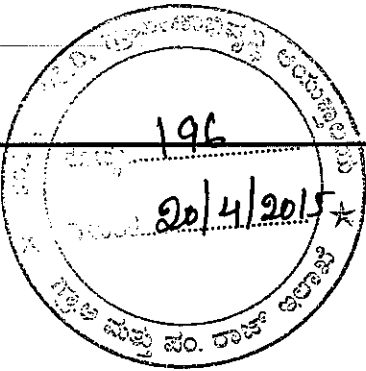
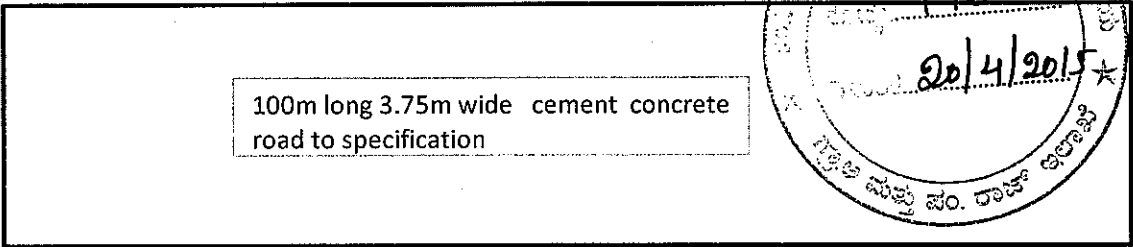
Name of work Model Estimate for construction of Cement Concrete Road under MGNREGS with convergence

Financial year 2014-15

Work Code(As in nregasoft)



Section



Plan

Sign of Engineer

Sign of PDO/Secretary and seal

Sign of President of GP and seal