



Name of Work :- Construction Asphalt Road to Quarry Sy.No 310

Shetageri Village Basgod Hobali, Ankola Taluk North Canara District.

Estimat Cost :- Rs.28.25 Lakhs

2019-20

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Basgod Hobali, Ankola Taluk North Canara District.

Estimat Cost :- Rs.28.25 Lakhs

DETAILED ESTIMATE

Sl.No	Item of Work	MEASUREMENTS				Qty	Rate/ Unit	Amount
		No	L	B	H			
1	2	3	4	5	6	7	8	9

- KSRRB 200-8. Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications. MORTH I Chanter 2

(I.No.18.11 SR2018-19)

Basic Rate	10.00							
Add 10% For A.W.	1.00							
	<u>11.00</u>	/Sqm						
	2	402.00	0.75			603.00		
						603.00		
						-241.20		
						<u>361.80</u>	Cum	
						361.80	11.00	3980.00
- Excavation in Soil using Hydraulic Excavator CK 90 and Tippers with Disposal KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location and complete as per specifications. MORTH Specification No.301

(P.No.142, I.No.19.14 SR2018-19)

Basic Rate	41.00							
Add 10% For A.W.	4.10							
	<u>45.10</u>	/Sqm						
For Earthen Drain	2	402.00	0.50	0.50		201.00		
	1	402.00	5.10	0.325		666.32		
						<u>867.32</u>	Cum	
						867.32	45.10	39116.00
- Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.KSRRB M400- Lime stabilization for improving subgrade

(P.No.155, I.No.20.5 SR 2018-19)

Basic Rate	2033.00							
Add 10% For A.W.	203.30							
	<u>2236.30</u>	/Cum						
	1	402.00	5.10	0.10		205.02		
						<u>205.02</u>	2236.30	458486.00

Sl.No	Item of Work	MEASUREMENTS				Qty	Rate/ Unit	Amount
		No	L	B	H			
1	2	3	4	5	6	7	8	9
4	KSRRB M400-17. Providing, laying, spreading and compacting cushioned stone aggregates of granite I trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 KSRRB M400- Construction of Median and Island with soil taken from Roadway cutting (P.No.155, I.No.20.18 SR2018-19)						cum	
	Basic Rate	2291.00						
	Add 10% For A.W.	229.10						
		2520.10						
		1	402.00	5.10	0.150	307.53		
						307.53	2520.10	775006.00
5	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 (P.No.157, I.No.21.6 SR 2018-19)						cum	
	Basic Rate	31.00						
	Add 10% For A.W.	3.10						
		34.10						
		1	402.00	5.00		2010.00		
						2010.00	34.10	68541.00
6	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 (P.No.157, I.No.21.7 SR2018-19)						cum	
	Basic Rate	13.00						
		13.00						
	Add 10% For A.W.	1.30						
		14.30						
		1	402.00	5.00		2010.00		
						2010.00	14.30	28743.00
7	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen (P.No.162, I.No.21.11.2 SR 2018-19)						cum	
	Basic Rate	6340.00						
		6340.00						
	Add 10% For A.W.	634.00						
		6974.00						
		1	402.00	5.00	0.050	100.50		
						100.50	6974.00	700887.00

Sl.No	Item of Work	MEASUREMENTS				Qty	Rate/ Unit	Amount
		No	L	B	H			
1	2	3	4	5	6	7	8	9

- 8 KSRRB M500-18. Providing and laying semi dense bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 508 complete in all respects complete as per specifications. - using 40/60 TPH capacity H.

(P.No.164, I.No.21.20.6 SR 2018-19)

Basic Rate 7961.00

7961.00

Add 10% For A.W. 796.10

8757.10 /Cum

1

402.00

5.00

0.025

50.25

50.25

8757.10

440044.00

- 9 KSRRB M300-Construction of Subgrade and Earthen Shoulders. KSRRB M300-55. Construction of sub-grade and earthen shoulders with approved material Gravel/Murum with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-2 complete as per specifications (including cost of earth, watering charges & compaction by vibratory roller compaction by vibratory roller to 97% of proctors density) MORTH Specification No. 305

DATA RATE

Basic Rate

86.00

86.00 /Cum

2

402.00

0.50

0.150

60.30

60.30

86.00

5186.00

Sub Total

2519989.00

10 GST Charge

L.S.

302398.68

11 Contingency

L.S.

2612.32

Total

2825000.00

(Rupees Twenty Eight Lakhs Twenty Five Thousand Only)