

1 Division : PWD Division Koppal
2 Sanctioned Estimate No :
3 Fund Head : HKRDB Micro SCP 2019-20
4 Major Head :
5 Minor Head :
6 Service Head :
7 Departmental Head :

Estimate is framed in the Office of the Asst. Executive Engineer, P.W.P @ I.W.T.D.
Sub division Kushtagi of the probable that will be incurred for the work of

ಕಾಮಗಾರಿ ಹೆಸರು :- ಕುಷ್ಟಗಿ ತಾಲೂಕಿನ ಕಬ್ಬರಗಿಯಿಂದ ಕಪಿಲತೀರ್ಥ ರಸ್ತೆ ಅಭಿವೃದ್ಧಿ
(ನಿ.ನಿ. ಮತ್ತು ಡಾಂಬರ್)

8 Estimated Cost : Rs: 100.00 Lakhs.
9 Administrative approved N: Date:
10 Technical sanctioned No : Date:
11 Estimate prepared by : Vijaykumar JE
12 Checked by : H.B. Kanti AEE

Section Officer

Assistant Executive Engineer
P.W.P @ I.W.T.D.
Sub Division Kushtagi

20-8-18
17-9-18
12-9-18
05/11/2018
W.O.

Total length - 1.65 Km
C.C - 650 m
B.T - 1020 m
m-s-s

GOVERNMENT OF KARNATAKA



P.W.P & I.W.T.D
DIVISION, KOPPAL.

OFFICE OF THE
ASSISTANT EXECUTIVE ENGINEER,
P.W.P. & I.W.T.D. SUB-DIVISION,
KUSHTAGI.

ಕಾಮಗಾರಿ ಹೆಸರು :- ಕುಷ್ಟಗಿ ತಾಲೂಕಿನ ಕಬ್ಬರಗಿಯಿಂದ ಕಪಿಲತೀರ್ಥ ರಸ್ತೆ ಅಭಿವೃದ್ಧಿ
(ನಿ.ನಿ. ಮತ್ತು ಡಾಂಬರ್)

ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ :- 2019-20 ನೇ ಸಾಲಿನ ಹೆಚ್.ಕೆ.ಆರ್.ಡಿ.ಇ. ಮೈಕ್ರೋ ಎಸ್.ನಿ.ಪಿ. ಯೋಜನೆ

ಅಂದಾಜು ಮೊತ್ತ :- ರೂ. 100.00 ಲಕ್ಷಗಳು

CERTIFICATE

ಕಾಮಗಾರಿಯ ಹೆಸರು:- ಕುಷ್ಟಗಿ ತಾಲೂಕಿನ ಕಬ್ಬರಗಿಯಿಂದ ಕವಿಲತೀರ್ಥ ರಸ್ತೆ ಅಭಿವೃದ್ಧಿ
(ಸಿ.ಸಿ. ಮತ್ತು ಡಾಂಬರ್)

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ :- 2019-20 ನೇ ಸಾಲಿನ ಹೆಚ್.ಕೆ.ಆರ್.ಡಿ.ಬಿ. ಮೈಕ್ರೋ ಎಸ್.ಸಿ.ಪಿ. ಯೋಜನೆ

ಅಂದಾಜು ಮೊತ್ತ :- ರೂ. 100.00 ಲಕ್ಷಗಳು

Ceritified that I Sri. Hallappa. B. Kanti AEE personally visited the spot of the above work and prepared the estimate using the sanctioned schedule of rates and providing the economical and safe way of executing work. This work not taken in any other head of account.

Assistant Executive Engineer
P.W.P and I.W.T.D.
Sub Division Kushtagi.

ಸಾಮಾನ್ಯ ವರದಿ

ಕಾಮಗಾರಿಯ ಹೆಸರು:- ಕುಷ್ಟಗಿ ತಾಲ್ಲೂಕಿನ ಕಬ್ಬರಗಿಯಿಂದ ಕಪಿಲತೀರ್ಥ ರಸ್ತೆ ಅಭಿವೃದ್ಧಿ
(ಸಿ.ಸಿ. ಮತ್ತು ಡಾಂಬರ್)

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ :- 2019-20 ನೇ ಸಾಲಿನ ಹೆಚ್.ಕೆ.ಆರ್.ಡಿ.ಜಿ. ಮೈಕ್ರೋ ಎಸ್.ಸಿ.ಪಿ. ಯೋಜನೆ

ಅಂದಾಜು ಮೊತ್ತ :- ರೂ. 100.00 ಲಕ್ಷಗಳು

ಕುಷ್ಟಗಿ ತಾಲ್ಲೂಕಿನ ಕಬ್ಬರಗಿಯಿಂದ ಕಪಿಲತೀರ್ಥ ರಸ್ತೆ ಅಭಿವೃದ್ಧಿ ಕಾಮಗಾರಿಯು 2019-20ನೇ ಸಾಲಿನ ಹೆಚ್.ಕೆ.ಆರ್.ಡಿ.ಜಿ. ಮೈಕ್ರೋ ಎಸ್.ಸಿ.ಪಿ. ಯೋಜನೆ ಅಡಿಯಲ್ಲಿ ರೂ. 100.00 ಲಕ್ಷಗಳಿಗೆ ಅನುಮೋದನೆಗೊಂಡಿರುತ್ತದೆ. ಸದರಿ ರಸ್ತೆಯು ಕಬ್ಬರಗಿ ಎಸ್.ಸಿ. ಕಾಲೋನಿಯಿಂದ ಫಾರೆಸ್ಟ್ ಬಾರ್ಡರ್‌ವರೆಗೆ ಸಿ.ಸಿ. ರಸ್ತೆ ಈಗಾಗಲೇ ಆಗಿದ್ದು, ಸದರಿ ಸಿ.ಸಿ. ರಸ್ತೆಯಿಂದ ಕಪಿಲತೀರ್ಥ ದೇವಸ್ಥಾನದ ವರೆಗೆ ರಸ್ತೆ ಅಭಿವೃದ್ಧಿಪಡಿಸಲು ಮಾನ್ಯ ಶಾಸಕರ ಸೂಚನೆಯಂತೆ ಹಾಗೂ ಐತಿಹಾಸಿಕ ಸ್ಥಳ ಹಾಗೂ ಜಲಪಾತ ಇರುವುದರಿಂದ ರಸ್ತೆ ಸಂಚಾರಕ್ಕೆ ತೊಂದರೆಯಾಗಿರುವುದರಿಂದ ಬೆಟ್ಟ ಏರುವವರೆಗೂ ಸಿ.ಸಿ. ರಸ್ತೆ ಅಳವಡಿಸಿದ್ದು, ನಂತರ ಡಾಂಬರ್ ರಸ್ತೆ ಮಾಡಲು ಈ ಕೆಳಕಂಡ ಅಂಶಗಳನ್ನು ಅಳವಡಿಸಲಾಗಿದೆ.

- 1) ಮಣ್ಣನ್ನು ಅಗೆಯುವುದು ಮತ್ತು ಸಮತಟ್ಟು ಮಾಡುವುದು.
- 2) ಮುರಮ್ ಒದಗಿಸುವುದು.
- 3) ಜಿ.ಎಸ್.ಜಿ. ಹಾಕುವುದು.
- 4) ಡಬ್ಲ್ಯೂ.ಜಿ.ಎಂ. ಹಾಕುವುದು.
- 5) ಸಿ.ಸಿ. ಎಂ.-30 ಅಳವಡಿಸುವುದು.
- 6) ಪ್ರೈಮ್‌ಕೋಟ್ ಹಾಗೂ ಟ್ಯಾಕ್‌ಕೋಟ್ ಹಾಕುವುದು.
- 7) ಎಸ್.ಡಿ.ಜಿ.ಸಿ. ಅಳವಡಿಸುವುದು.
- 8) ರಸ್ತೆಯ ಎರಡೂ ಬದಿ ಮುರಮ್ ಒದಗಿಸುವುದು.
- 9) ಜಿ.ಎಸ್.ಟಿ. ಇತ್ಯಾದಿ.

ಅಂದಾಜು ಪತ್ರಿಕೆಯನ್ನು 2018-19 ನೇ ಸಾಲಿನ ಪಂಚಾಯತ್ ರಾಜ್ ಇಂಜಿನಿಯರಿಂಗ್ ಇಲಾಖೆ, ಹಾಗೂ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ, ಬಳ್ಳಾರಿ ವೃತ್ತ ದರಪಟ್ಟಿ ಪ್ರಕಾರ ರೂ 100.00 ಲಕ್ಷಗಳಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿಗಾಗಿ ಸಲ್ಲಿಸಲಾಗಿದೆ.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್,
ಲೋಕೋಪಯೋಗಿ,ಬಂದರು ಮತ್ತು ಒಳನಾಡು ಜಲಸಾರಿಗೆ
ಇಲಾಖೆ, ಉಪ- ವಿಭಾಗ, ಕುಷ್ಟಗಿ

| Sl No | Quantity | Item | Rate | Per | Amount |
|-------|----------|--|---------|-----|------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 4 | | Gravel/Soil-Aggregate Base (Table 400.2) Grading B Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with three wheel 80-100 kN static roller capacity to achieve the desired density, complete as per Technical Specification Clause 402 | | | |
| | 357.50 | | 1141.00 | | 407908.00 |
| 5 | | Wet Mix Macadam Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & 400.12 and Technical Specification Clause 406. By Mechanical Means with 1 km lead | | | |
| | 1223.75 | | 2114.00 | Cum | 2587008.00 |
| 6 | | Cement Concrete Pavement Construction of unreinforced, dowel jointed at expansion and construction joint only, plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including provision of contraction and expansion, construction joints, applying debonding strips, primer, sealant, dowel bars, near approaches to bridge/culvert and construction joints, admixtures as approved, curing of concrete slabs for 14-days, using curing compound (where specified) and water finishing to lines and grade as per drawing and Technical Specification | | | |
| | 544.78 | | 6713.00 | | 3657108.00 |

ESTIMATE
ABSTRACT SHEET

Name of work :

ಕಾಮಗಾರಿ ಹೆಸರು :- ಕುಷ್ಟಗಿ ತಾಲ್ಲೂಕಿನ ಕಬ್ಬರಗಿಂಬಂದ ಕಪಿಲತೀರ್ಥ ರಸ್ತೆ ಅಭಿವೃದ್ಧಿ
(ಸಿ.ಸಿ. ಮತ್ತು ಡಾಂಬರ)

| Estimated Cost :- Rs. 100.00 Lakhs | | | QM/F 62 a | | |
|------------------------------------|----------|--|-----------|-----|-----------|
| Sl No | Quantity | Item | Rate | Per | Amount |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | | Clearing and Grubbing Road Land Clearing and grubbing road land including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300 mm, removal of stumps of such trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150 mm in thickness as per Technical Specification Clause 201 By Mechanical Means In area of non-thorny jungle | | | |
| | 0.22 | | 18709.00 | Cum | 4041.00 |
| 2 | | Compacting original ground supporting embankment, Loosening, Levelling and Compacting original ground supporting embankment to facilitate placement of first layer of embankment, scarified to a depth of 150 mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Tables 300.1 and 300.2 for embankment construction as per Technical Specification Clause 301.4.1 | | | |
| | 907.50 | | 13.00 | Cum | 11798.00 |
| 3 | | Construction of Embankment with Material Obtained from Borrow Pits Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5 | | | |
| | 1530.00 | | 339.00 | Cum | 518670.00 |

| Sl No | Quantity | Item | Rate | Per | Amount |
|-------|----------|--|-----------|-----|---------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 12 | | Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row--Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets Clause 1106.750 mm dia | | | |
| | 7.50 | | 2925.00 | | 21938.00 |
| 13 | | Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 303.1. | | | |
| | 255.00 | | 333.00 | | 84915.00 |
| | | Add 12% GST | | | 1067276.04 |
| | | L S for Misc,and Rounding Off | | | 38756.96 |
| | | | Total Rs, | | <u><u>10000000.00</u></u> |

Section Officer

Assistant Excutive Engineer,
PWP&IWTD SUB-Division,Kushtagi.

| Sl No | Quantity | Item | Rate | Per | Amount |
|-------|----------|--|---------|-----|------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | | Medium porosity, Providing and applying primer coat with Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90- 1.2 kg/sqm using mechanical means as per Technical Specification Clause 502 | | | |
| | 5775.00 | | 65.00 | | 375375.00 |
| 8 | | KSRRB M500-10. Providing and applying tack coat using 80/100 grade bitumen(VG10) in boiler fitted with spray set distributor at the rate of 0.20 kg per sqm on the existing prepared bituminous surface cleaned with mchancial broom. complete as per specifications. - using bitumen 80/100 on primed surfaces | | | |
| | 5775.00 | | 12.00 | | 69300.00 |
| 9 | | 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.M.P. with Mechanical Paver Gr-II (25 mm to 30 mm) with 5 % VG-30 Bitumen | | | |
| | 144.38 | | 7962.00 | | 1149514.00 |
| 10 | | Excavation for Structures. Earthwork in excavation for foundation of structures upto 3 m depth as per drawing and technical specification Clause 1104 including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material. Ordinary soil Upto 3 m depth | | | |
| | 5.40 | | 384.00 | | 2074.00 |
| 11 | | Plain Cement Concrete M10 (1:3:6 nominal mix) in levelling course below open foundation of Head walls as per drawings & Technical Specification Clause 1109 P.C.C grade M 10 (ii) Nominal mix 1:3.6 (Hand mixing) | | | |
| | 0.900 | | 4798.00 | | 4318.00 |

ESTIMATE
MEASUREMENT SHEET

Name of work :

ಕಾಮಗಾರಿ ಹೆಸರು :- ಕುಪ್ಪಗಿ ತಾಲ್ಲೂಕಿನ ಕಬ್ಬರಗಿಯಿಂದ ಕಪಿಲತೀರ್ಥ ರಸ್ತೆ ಅಭಿವೃದ್ಧಿ (ಸಿ.ಸಿ. ಮತ್ತು ಡಾಂಬರ್)

| Estimated Cost : Rs.100.00 Lakhs | | | | | | QM/F 62 (b) | | |
|----------------------------------|--|----|-------------|---------|-------|-------------|---------|------|
| Sl No | Description of work | No | Measurments | | | Content | Total | Unit |
| | | | Length | Breadth | Depth | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 1 | Clearing and Grubbing Road Land Clearing and grubbing road land including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300 mm, removal of stumps of such trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150 mm in thickness as per Technical Specification Clause 201 By Mechanical Means In area of non-thorny jungle | | | | | | | |
| | K.M. 1.10 to 2.80 | 2 | 1500.00 | 1.20 | | 0.36 | | |
| | Deuct 40% voids | | | | (-) | 0.14 | | |
| | | | | | | 0.22 | 0.22 | Ha |
| 2 | Compacting original ground supporting embankment, Loosening, Levelling and Compacting original ground supporting embankment to facilitate placement of first layer of embankment, scarified to a depth of 150 mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Tables 300.1 and 300.2 for embankment construction as per Technical Specification Clause 301.4.1 | | | | | | | |
| | K.M. 1.10 to 2.80 | 1 | 1650.00 | 5.50 | 0.10 | 907.50 | | |
| | | | | | | 907.50 | 907.50 | Cum |
| 3 | Construction of Embankment with Material Obtained from Borrow Pits Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5 | | | | | | | |
| | K.M. 1.10 to 2.80 | 1 | 650.00 | 6.00 | 0.15 | 585.00 | | |
| | | 1 | 1050.00 | 6.00 | 0.15 | 945.00 | | |
| | | | | | | 1530.00 | 1530.00 | Cum |
| 4 | Gravel/Soil-Aggregate Base (Table 400.2) Grading B Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with three wheel 80-100 kN static roller capacity to achieve the desired density, complete as per Technical Specification Clause 402 | | | | | | | |
| | K.M. 1.10 to 1.75 | 1 | 650.00 | 5.50 | 0.10 | 357.50 | 357.50 | Cum |

5 Wet Mix Macadam Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & 400.12 and Technical Specification Clause 406. By Mechanical Means with 1 km lead

| | | | | | | |
|-------------------|---|---------|------|------|----------------|-------------|
| K.M. 1.10 to 2.80 | 1 | 650.00 | 5.50 | 0.10 | 357.50 | |
| | 1 | 1050.00 | 5.50 | 0.15 | 866.25 | |
| | | | | | <u>1223.75</u> | 1223.75 Cum |

6 Cement Concrete Pavement Construction of un-reinforced, dowel jointed at expansion and construction joint only, plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including provision of contraction and expansion, construction joints, applying debonding strips, primer, sealant, dowel bars, near approaches to bridge/culvert and construction joints, admixtures as approved, curing of concrete slabs for 14-days, using curing compound (where specified) and water finishing to lines and grade as per drawing and Technical Specification Clause 1501

| | | | | | | |
|---------------------|---|--------|------|------|---------------|------------|
| K.M. 1.10 to 1.75 | 1 | 650.00 | 5.50 | 0.15 | 536.25 | |
| CD Headwall | 2 | 4.00 | 0.53 | 1.35 | 5.67 | |
| Hard Passage | 1 | 4.00 | 5.50 | 0.15 | 3.30 | |
| | | | | | <u>545.22</u> | |
| Deduct pipe portion | | | | (-) | 0.44 | |
| | | | | | <u>544.78</u> | 544.78 Cum |

7 Medium porosity, Providing and applying primer coat with Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90- 1.2 kg/sqm using mechanical means as per Technical Specification Clause 502

| | | | | | | |
|-----------------|---|---------|------|--|----------------|-------------|
| KM 1.75 to 2.80 | 1 | 1050.00 | 5.50 | | 5775.00 | |
| | | | | | <u>5775.00</u> | 5775.00 Sqm |

8 KSRRB M500-10. Providing and applying tack coat using 80/100 grade bitumen(VG10) in boiler fitted with spray set distributor at the rate of 0.20 kg per sqm on the existing prepared bituminous surface cleaned with mchancial broom. complete as per specifications. - using bitumen 80/100 on primed surfaces

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--|---|---------|------|-------|---|----------------|-------------|---|
| KM 1.75 to 2.80 | 1 | 1050.00 | 5.50 | | | 5775.00 | | |
| | | | | | | <u>5775.00</u> | 5775.00 Sqm | |
| 9 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.M.P. with Mechanical Paver Gr-II (25 mm to 30 mm) with 5 % VG-30 Bitumen | | | | | | | | |
| KM 1.75 to 2.80 | 1 | 1050.00 | 5.50 | 0.025 | | <u>144.38</u> | | |
| | | | | | | <u>144.38</u> | 144.38 Cum | |
| 10 Excavation for Structures. Earthwork in excavation for foundation of structures upto 3 m depth as per drawing and technical specification Clause 1104 including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material. Ordinary soil Upto 3 m depth | | | | | | | | |
| CD Headwall | 2 | 4.00 | 0.75 | 0.90 | | <u>5.40</u> | | |
| | | | | | | <u>5.40</u> | 5.40 Cum | |
| 11 Plain Cement Concrete M10 (1:3:6 nominal mix) in levelling course below open foundation of Head walls as per drawings & Technical Specification Clause 1109 P.C.C grade M 10 (ii) Nominal mix 1:3:6 (Hand mixing) | | | | | | | | |
| CD Headwall | 2 | 4.00 | 0.75 | 0.15 | | <u>0.90</u> | | |
| | | | | | | <u>0.90</u> | 0.90 Cum | |
| 12 Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row--Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets Clause 1106.750 mm dia | | | | | | | | |
| 75 mm dia RCC Hume pipe | 1 | 7.50 | | | | 7.50 | 7.50 M | |
| 13 Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 303.1. | | | | | | | | |
| K.M. 1.10 to 2.80 | 2 | 1700.00 | 0.75 | 0.10 | | 255.00 | 255.00 Cum | |

Section Officer

Assistant Executive Engineer,
PWP&IWTD SUB-Division, Kushtagi.

ESTIMATE
NAME OF WORK

ಕಾಮಗಾರಿ ಹೆಸರು :- ಕುಷ್ಟಗಿ ತಾಲ್ಲೂಕಿನ ಕಬ್ಬರಗಿಂಬಂದ ಕಪಿಲಶಿಖರ್ ರಸ್ತೆ ಅಭಿವೃದ್ಧಿ
(ಸಿ.ಸಿ. ಮತ್ತು ಡಾಂಬರ್)

ESTIMATED COST :- Rs. 100.00 LAKHS

RATE ANALYSIS

| SI No | Item | Rate | Unit |
|-------|---|----------|------|
| 1 | Clearing and Grubbing Road Land Clearing and grubbing road land including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300 mm, removal of stumps of such trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150 mm in thickness as per Technical Specification Clause 201 By Mechanical Means In area of non-thorny jungle | | |
| | PRED D S R 2018-19 Item No.2.2.II.A. Page No. @ Rs | 18709.00 | /Ha |
| 2 | Compacting original ground supporting embankment, Loosening, Levelling and Compacting original ground supporting embankment to facilitate placement of first layer of embankment, scarified to a depth of 150 mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Tables 300.1 and 300.2 for embankment construction as per Technical Specification Clause 301.4.1 | | |
| | PRED D S R 2018-19 Item No. 3.15.i Page No. @ Rs | 13.00 | /Cum |
| 3 | Construction of Embankment with Material Obtained from Borrow Pits Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5 | | |
| | PRED D S R 2018-19 Item No. 3.4 Page No. @ Rs | 339.00 | /Cum |
| 4 | Gravel/Soil-Aggregate Base (Table 400.2) Grading B Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with three wheel 80-100 kN static roller capacity to achieve the desired density, complete as per Technical Specification Clause 402 | | |
| | PRED D S R 2018-19 Item No. 4.2.ii Page No. @ Rs | 1141.00 | /Cum |
| 5 | Wet Mix Macadam Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & 400.12 and Technical Specification Clause 406. By Mechanical Means with 1 km lead | | |
| | PRED D S R 2018-19 Item No.4.9 Page No. @ Rs | 2114.00 | /Cum |
| 6 | Cement Concrete PavementConstruction of un-reinforced, dowel jointed at expansion and construction joint only, plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel laying and fixing of 125 micron thick | | |
| | PRED D S R 2018-19 Item No. 6.4 Page No. @ Rs | 6713.00 | /Cum |

Medium porosity, Providing and applying primer coat with Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90- 1.2 kg/sqm using mechanical means as per Technical Specification Clause 502

PRED D S R 2018-19 Item No. 5.1.ii Page No. @ Rs 65.00 /Sqm
KSRRB M500-10. Providing and applying tack coat using 80/100 grade bitumen(VG10) in boiler fitted with spray set distributor at the rate of 0.20 kg per sqm on the existing prepared bituminous surface cleaned with mechanical broom. complete as per specifications. - using bitumen 80/100 on primed surfaces

PWD D S R 2018-19 Item No.21.10 Page No. @ Rs 12.00 /Sqm
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.M.P. with Mechanical Paver Gr-II (25 mm to 30 mm) with 5 % VG-30 Bitumen

PWD D S R 2018-19 Item No.21.20.6 Page No. @ Rs 7962.00 /Cum
Excavation for Structures. Earthwork in excavation for foundation of structures upto 3 m depth as per drawing and technical specification Clause 1104 including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.
Ordinary soil Upto 3 m depth

PRED D S R 2018-19 Item No.9.1.A.I.i Page No. @ Rs 384.00 /Cum
Plain Cement Concrete M10 (1:3:6 nominal mix) in levelling course below open foundation of Head walls as per drawings & Technical Specification Clause 1109
P.C.C grade M 10 (ii) Nominal mix 1:3.6 (Hand mixing)

PRED D S R 2018-19 Item No. 9.9.2 Page No. @ Rs 4798.00 /Cum
Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row--Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets Clause 1106.750 mm dia

PRED D S R 2018-19 Item No. 9.3.C Page No. @ Rs 2925.00 /M
Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 303.1.

PRED D S R 2018-19 Item No. 3.14 Page No. @ Rs 333.00 /Cum

Section Officer

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