1 Division

2 Sanctioned Estimate No.

PWD Division Koppal

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.

ಕಾಮಗಾಲಿ ಹೆಸರು :- ಕುಷ್ಟರಿ ತಾಲೂಕಿನ ಕಬ್ಬರಗಿಯಿಂದ ಕಪಿಲತೀರ್ಥ ರಸ್ತ್ ಅಭಿವೃದ್ಧಿ (ಸಿ.ಸಿ. ಮತ್ತು ಡಾಂಬರ್)

Sub division Kushtagi of the probable that will be incurred for the work of

8 Estimated Cost Rs: 100.00 Lakhs.

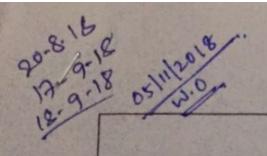
9 Adminstrative approved N: Date: 10 Technical sanctioned No : Date:

11 Estimate prepared by Vijaykumar JE

12 Checked by H.B. Kanti AEE

Section Officer

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



GOVERNMENT OF KARNATAKA

Total 1.65 kg
(e.ght) - 1.65 kg
(e.g. - 650 kg)
(e.g. - 650 kg)
(e.g. - 650 kg)
(e.g. - 650 kg)



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.

ಕಾಮಗಾಲಿ ಹೆಸರು :- ಕುಷ್ಟಗಿ ತಾಲೂಕಿನ ಕಬ್ಬರಗಿಯಿಂದ ಕಪಿಲತೀರ್ಥ ರಸ್ತೆ ಅಭಿವೃದ್ಧಿ (ಸಿ.ಸಿ. ಮತ್ತು ಡಾಂಬರ್)

ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ :- 2019-20 ನೇ ಸಾಲನ ಹೆಚ್.ಕೆ.ಆರ್.ಡಿ.ಚಿ. ಮೈಕ್ರೋ ಎಸ್.ಸಿ.ಪಿ. ಯೋಜನೆ

ಅಂದಾಜು ಮೊತ್ತ :-ರೂ. 100.00 ಲಕ್ಷಗಳು

CERTIFICATE

ಕಾಮಗಾರಿಯ ಹೆಸರು:– ಕುಷ್ಟಗಿ ತಾಲೂಕಿನ ಕಬ್ಬರಗಿಯಿಂದ ಕಪಿಲತೀರ್ಥ ರಸ್ತೆ ಅಭಿವೃದ್ಧಿ (ಸಿ.ಸಿ. ಮತ್ತು ಡಾಂಬರ್)

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ:- 2019-20 ನೇ ಸಾಅನ ಹೆಚ್.ಕೆ.ಆರ್.ಡಿ.ಐ. 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 ತಾಲೂಕಿನ ಕಬ್ಬರಗಿಯಿಂದ ಕಪಿಲತೀರ್ಥ ರಸ್ತೆ ಅಭಿವೈದ್ಧಿ (ಸಿ.ಸಿ. ಮತ್ತು ಡಾಂಬರ್)

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

ಅಂದಾಜು ಮೊತ್ತ :- ರೂ. 100.00 ಲಕ್ಷಗಳು

ಕುಷ್ಟಗಿ ತಾಲ್ಲೂಕಿನ ಕಬ್ಬರಗಿಯಿಂದ ಕಪಿಲತೀರ್ಥ ರಸ್ತೆ ಅಭಿವೃದ್ಧಿ ಕಾಮಗಾರಿಯು 2019–20ನೇ ಸಾಅನ ಹೆಚ್.ಕೆ.ಆರ್.ಡಿ.ಜಿ. ಮೈಕ್ರೋ ಎಸ್.ಸಿ.ಪಿ. ಯೋಜನೆ ಅಡಿಯಲ್ಲ ರೂ. 100.00 ಲಕ್ಷಗಳಗೆ 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 ಇರುವದರಿಂದ ರಸ್ತೆ ಸಂಚಾರಕ್ಕೆ ತೊಂದರೆಯಾಗಿರುವದರಿಂದ ಬೆಟ್ಟ ಏರುವವರೆಗೂ ಸಿ.ಸಿ. ರಸ್ತೆ ಅಳವಡಿಸಿದ್ದು, ನಂತರ ಡಾಂಬರ್ ರಸ್ತೆ ಮಾಡಲು ಈ ಕೆಳಕಂಡ ಅಂಶಗಳನ್ನು ಅಳವಡಿಸಲಾಗಿದೆ.

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

ಅಂದಾಜು ಪತ್ರಿಕೆಯನ್ನು 2018–19 ನೇ ಸಾಅನ ಪಂಚಾಯತ್ ರಾಜ್ ಇಂಜಿನಿಯರಿಂಗ್ ಇಲಾಖೆ, ಹಾಗೂ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ, ಬಳ್ಳಾರಿ ವೃತ್ತ ದರಪಟ್ಟ ಪ್ರಕಾರ ರೂ 100.00 ಲಕ್ಷಗಳಗೆ ಆಡಳತಾತ್ಮಕ ಮಂಜೂರಾತಿಗಾಗಿ ಸಲ್ಲಸಲಾಗಿದೆ.

> ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನೀಯರ್, ಲೋಕೋಪಯೋಗಿ,ಬಂದರು ಮತ್ತು ಒಳನಾಡು ಜಲಸಾರಿಗೆ ಇಲಾಖೆ, ಉಪ– ವಿಭಾಗ, ಕುಷ್ಟಗಿ

Quanity Amount Per Item Rate 2 6 3 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** 407908.00 1141.00 357.50 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 2587008.00 Cum 2114.00 1223.75 Cement Concrete PavementConstruction of unreinforced, dowel jointed at expansion 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 provision continuous operation including 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

PWG 62(a) (See Paragraph 130 (a) of the KPWD Code)

ESTIMATE

ABSTRACT SHEET Name of work:

ಕಾಮಗಾಲಿ ಹೆಸರು :- ಕುಷ್ಟ್ ಶಾಲ್ಲೂಕಿನ ಕಬ್ಬರಗಿಯಿಂದ ಕಪಿಲತೀರ್ಥ ರಸ್ತೆ ಅಭಿವೃದ್ಧಿ (ಸಿ.ಸಿ. ಮತ್ತು ಡಾಂಬರ್)

		Esimated Cost :- Rs. 100.00 Lakhs		QM/F 6	2 a
SI No	Quanity	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	0.22	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	11798.0
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	Cui	m 518670

INO	Quanity	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,		10000000.00

Section Officer

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

SI No	Quanity	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 using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (25 mm to 30 mm) with 5 % VG-30			
		Bitumen			
			7962.00		1149514.0
10	144.38	Excavation for Structures. Earthwork in excavation for foundation of structures upto 3 m depth as per drawing and technical specification Clause 1104 includding 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	702.00		
	5.40		384.00		2074.
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)			

(Paragraph 130 (a) of the KPWD Code) ESTIMATE MEASUREMENT SHEET Name of work:

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

No	simated Cost : De 100 00 1 11						43.00	
	simated Cost : Rs.100.00 Lakh					QM/F 62	(b)	
	Description of work	No	M	easurment	S	Content	Total	
1			Length	Breadth	Depth			Unit
11	Clearing and Grubbing Road La	3	4	5	6	7		8
	including uprooting wild vegetation trees of girth upto 300 mm, removand disposal of unserviceable material to be used or auctione removal and disposal of top or thickness as per Technical Spe Means In area of non-thorny jungle	val of stunaterials ed, upto ganic so cification	and stack a lead of all not exc	ch trees of sing of se 1000 m seeding 15	ut earlier rviceable including 0 mm in			
	K.M. 1.10 to 2.80	2	1500.00	1.20		0.36		
	Deuct 40% voids				(-)	0.14		
	Compacting original ground s					0.22		0.22 Ha
	301.4.1 K.M. 1.10 to 2.80	1	1650.00	5.50	0.10	907.5	0	
						907.	50	907.50 Cum
•	Construction of Embankment with Construction of embankment with borrow pits with a lift upto 1.5 m, to required slope and compacting and 300.2 with a lead upto 10 Clause 301.5 K.M. 1.10 to 2.80	vith app transpo	roved ma rting to sit et requirer	terial obta e, spreadi ment of Ta chnical S	ained fro ng, gradi ables 300 pecificati	om ng 0.1 on	00	
		1	1050.0	0 6.00	0.1	5 945.	00	
						1530		1530.00 Cu
	Gravel/Soil-Aggregate Base (Tagranular sub-base by providing	able 400).2) Gradi	ng B Cor	struction	of in		

one aggregate to wet mix macadam specification including premixing emixed material by tipper to site, laying in uniform layers in subsections course on a well prepared sub-base and compacting with nooth wheel roller of 80 to 100kN weight to achieve the desired ensity including lighting, barricading and maintenance of diversion, etc. a per Tables 400.11 & 400.12 and Technical Specification Clause 406. M. 1.10 to 2.80 1 650.00 5.50 0.10 357.50 223.75 1223.75 2423.75 25 223.75 26.25	Vet Mix Macadam Providing, la	ying, spreading	ng and cor	5 pacting	6 j graded	7	8
serbase course on a well prepared sub-base and compacting with nooth wheel roller of 80 to 100kN weight to achieve the desired enably including lighting, barricading and maintenance of diversion, etc. a per Tables 400.11 & 400.12 and Technical Specification Clause 406. M. 1.10 to 2.80 1 650.00 5.50 0.10 357.50 1 1050.00 5.50 0.10 866.25 1223.75 1223.75 Cum Cement Concrete PavementConstruction of un-reinforced, dowel jointed at expansion and construction joint only, plain cement concrete averence, 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). Sociare and fine aggregates conforming to 15:383, maximum size of coarse and fine aggregates conforming to 15:383, 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 leveling 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 Medium porosity, Providing and applying primer coat with Bitumen emulsion (S8-1) 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 5775.00 5775.00 5775.00 5775.00 5775.	one aggregate to wet mix made	cadam specific	nation incl	hidina no	molulum		
nooth wheel roller of 80 to 100kN weight to achieve the desired entity including lighting, barricading and maintenance of diversion, etc a per Tables 400.11 & 400.12 and Technical Specification Clause 406. M. 1.10 to 2.80 1 650.00 5.50 0.10 357.50 1 1050.00 5.50 0.15 866.25	mixed material by tipper to	site laving	in uniform	ug Mill), c	arriage		
ansity including lighting, barricading and maintenance of diversion, etc a per Tables 400.11 & 400.12 and Technical Specification Clause 406. M. 1.10 to 2.80 1 650.00 5.50 0.15 866.25 1223.75 1 1050.00 5.50 0.15 866.25 1223.75 1 223.75 1223.75 1223.75 1 223.75 Cum	aserbase course on a well pr	repared sub-h	hase and	compacti	na with		
well activities and services of the services o	mooth wheel roller of 80 to	100kN weigh	nt to achi	eve the	desired		
AM. 1.10 to 2.80 1 650.00 5.50 0.10 357.50 1 1050.00 5.50 0.15 866.25 1 223.75 1223.75 1223.75 Cum Cement Concrete PavementConstruction of un-reinforced, dowel jointed at expansion and construction joint only, plain cement concrete averement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.22 M30 (Grade), coarse aggregates conforming to Is:383, maximum size of coarse 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 3.30 545.22 Deduct pipe portion (-) 0.44 544.78 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 KM 1.75 to 2.80 1 1050.00 5.50 5775.0	s per Tables 400.11 & 400.12	and Technica	intenance	of divers	ion, etc		
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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 5775.00 5775.00 Sqr 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 bitumes	finishing to lines and grade a Clause 1501 K.M. 1.10 to 1.75 CD Headwall Hard Passage	s per drawing 1 2	650.00 4.00	5.50 0.53	0.15 1.35 0.15	536.25 5.67 3.30 545.22 0.44	544.78 Cu
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KM 1.75 to 2.80 1 1050.00 5.50 5775.00 5775.00 5775.00 Sqr 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	finishing to lines and grade a Clause 1501 K.M. 1.10 to 1.75 CD Headwall Hard Passage Deduct pipe portion Medium porosity, Providing emulsion (SS-1) on prepa cleaning of road surface and	and applying red surface d spraying pr	650.00 4.00 4.00 g primer of granumer at the	5.50 0.53 5.50 coat with lar base the rate of	0.15 1.35 0.15 (-)	536.25 5.67 3.30 545.22 0.44 544.78	544.78 Cu
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0.20 kg per sqm on the existing prepared bituminous surface cleaned with mchancial broom, complete as per specifications - using bitumen	finishing to lines and grade a Clause 1501 K.M. 1.10 to 1.75 CD Headwall Hard Passage Deduct pipe portion Medium porosity, Providing emulsion (SS-1) on prepartice and kg/sqm using mechanical medium 502	and applying and surface d spraying preams as per T	650.00 4.00 4.00 g primer of granufimer at the echnical second	5.50 0.53 5.50 coat with lar base he rate of Specifical	0.15 1.35 0.15 (-) h Bitume including 0.90-11	536.25 5.67 3.30 545.22 0.44 544.78 en ng .2 se	
0.20 kg per sqm on the existing prepared bituminous surface cleaned with mchancial broom, complete as per specifications a using bitumen	finishing to lines and grade a Clause 1501 K.M. 1.10 to 1.75 CD Headwall Hard Passage Deduct pipe portion Medium porosity, Providing emulsion (SS-1) on prepa cleaning of road surface and kg/sqm using mechanical met 502 KM 1.75 to 2.80	and applying red surface d spraying preams as per T	g primer of granumer at the echnical states	5.50 0.53 5.50 coat with lar base he rate of Specifical 5.50	0.15 1.35 0.15 (-) h Bitume including 0.90-1	536.25 5.67 3.30 545.22 0.44 544.78 en ng .2 se	
with mchancial broom, complete as per specifications - using bitumen	finishing to lines and grade a Clause 1501 K.M. 1.10 to 1.75 CD Headwall Hard Passage Deduct pipe portion Medium porosity, Providing emulsion (SS-1) on prepa cleaning of road surface and kg/sqm using mechanical methods. KSRRB M500-10. Providing	and applying and applying preams as per T	g primer of granufimer at the echnical stack coal	5.50 0.53 5.50 coat with lar base he rate of Specification 5.50	0.15 1.35 0.15 (-) h Bitume including 0.90-1 tion Clau	536.25 5.67 3.30 545.22 0.44 544.78 en ng .2 se	
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	finishing to lines and grade a Clause 1501 K.M. 1.10 to 1.75 CD Headwall Hard Passage Deduct pipe portion Medium porosity, Providing emulsion (SS-1) on prepa cleaning of road surface and kg/sqm using mechanical medium solution (SS-1) in boiler fitte 0.20 kg per sqm on the existing stress and surface	and applying and applying red surface d spraying preams as per T	g primer of granufmer at the chaical stack coal set districted bitumin	5.50 0.53 5.50 coat with lar base he rate of Specifical specifi	0.15 1.35 0.15 (-) h Bitume including 0.90-1 tion Clau	536.25 5.67 3.30 545.22 0.44 544.78 en ng .2 se 5775.00	

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1	2	3	4	5	6	7	8
	KM 1.75 to 2.80	1	1050.00	5.50		5775.00	
	KSRRB M500-18. Providing and lay using crushed aggregates of bituminous binder and filler, transp with a paver finisher to the require with smooth wheeled, vibratory desired compaction as per MOI complete in all respects complete TPH capacity H.M.P. with Mechan with 5 % VG-30 Bitumen	orting the d grade and tar	ne hot mix to e, level and indem roller pecification	o work site, alignment, s to achiev clause No	with laying rolling e the . 508	5775.00	5775.00 Sqm
	KM 1.75 to 2.80	1	1050.00	5.50	0.025	144.38	144.38 Cum
	Excavation for Structures. Earthwatructures upto 3 m depth as per Clause 1104 includding setting out removal of stumps and other delebottom and backfilling Ordinary soil Upto 3 m depth	drawir constr	ng and tech ruction of sh matter, dre	nnical specification of sides.	fication		
	CD Headwall						
	CD neddwall	. 2	4.00	0.75	0.9		
1	Plain Cement Concrete M10 (1:3 below open foundation of Head Specification Clause 1109 1:3.6 (Hand mixing)	3:6 nor walls a P.C.C	minal mix) as per dra	in levelling wings & Te 10 (ii) Nomi	cours	5.40 e al	5.40 Cum
2	Plain Cement Concrete M10 (1:30 below open foundation of Head Specification Clause 1109 1:3.6 (Hand mixing)	Cemend laying bedding cement filling, of	minal mix) as per dra grade M 4.00 nt Concrete ng reinforce ng of granul nt mortar concrete ar	in levelling wings & Te 10 (ii) Nomi 0.75 e Pipe NP3 ed cement of lar material 1:2 but e	cours echnical inal m 0.1 as p concre in sing xcludii	5.40 e al	5.40 Cum
2	Plain Cement Concrete M10 (1:3 below open foundation of Head Specification Clause 1109 1:3.6 (Hand mixing) CD Headwall Providing and Laying Reinforced design in Single RowProviding a pipe NP3 for culverts on first class row including fixing collar with excavation, protection works, back	Cemend laying bedding cement filling, of then shall lifts at slope	minal mix) as per dra grade M 4.00 nt Concrete ng reinforce ng of granul nt mortar concrete ar 0 mm dia 1 7.50 coulders with and leads, e and co	in levelling wings & Te 10 (ii) Nomi 0 0.75 e Pipe NP3 ed cement of lar material 1:2 but end masonry of the approved transporting ompacted	cours echnical inal m 0.1 as p concre in sing xcludin works mater g to s to mater	5.40 e al ix 5 0.9 er te ale ng in rial ite, eet	5.40 Cum

Section Officer

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

ESTIMATE NAME OF WORK

ಕಾಮಗಾಲಿ ಹೆಸರು :- ಕುಷ್ಟ್ ತಾಲ್ಲೂಕಿನ ಕಬ್ಬರಗಿಯಿಂದ ಕಪಿಲತೀರ್ಥ ರಸ್ತೆ ಅಭಿವೃದ್ಧಿ (ಸಿ.ಸಿ. ಮತ್ತು ಡಾಂಬರ್)

ESTIMATED COST :- Rs, 100,00 LAKHS RATE ANALYSIS

SINO	RATE ANALYSIS		
1		Rate	Unit
	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	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		
6	PRED D S R 2018-19 Item No.4.9 Page No. @ Rs 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 laving and fixing of 125 micron thick		
	PRED D S R 2018-19 Item No. 6.4 Page No. @ Rs	6713.0	0 /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 DSR 2018-19 Item No. 5.1.ii Page No. KSRRB M500-10. Providing and applying tack coat using 80/100 grade 65.00 /Sqm 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 PWD D S R 2018-19 Item No.21.10 Page No. 12.00 /Sam 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. using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (25 mm to 30 mm) with 5 % VG-30 Bitumen PWD DSR 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 includding setting out, construction of shoring and bracing, removal of stumps 10 and other deleterious matter, dressing of sides and bottom and backfilling with approved material. Ordinary soil Upto 3 m depth PRED DSR 2018-19 Item No.9.1.A.I.i Page No. 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 11 P.C.C grade M 10 (ii) Nominal mix 1:3.6 (Hand mixing) PRED DSR 2018-19 Item No. 9.9.2 Page No. 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 DSR 2018-19 Item No. 9.3.C Page No. 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

Assistant Excutive Engineer,
PWP&IWTD SUB-Division Kushtagi

Section Officer

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