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No 12014/60/2017-KNT  
Government of India  
Ministry of Road Transport & Highways  
(Zone-4)

Transport Bhawan, 1, Parliament Street, New Delhi - 110001

Dated: 21<sup>st</sup> March, 2018

The Secretary to the Government of Karnataka,  
Public Works Department,  
Vidhana Soudha,  
M.S. Building,  
Bangalore-560 001

Sub: - Estimate for the work of reconstruction to two lane with paved shoulder Ds. Ch. 442.180 (Ex. Km. 448.00) to Ds. Ch. 485.240 (Ex. kKm. 494.000) of Huliyaar to KB Cross section and from Ds. Ch. 532.100 (Ex. Km. 533.150 to Ds. Ch. 539.100 (ex. Km. 540.175\_ from KB cross to Nelligere section of NH-150A in the State of Karnataka on EPC mode.

(Job No. NH-150A-KNT-2017-18- 890)

Sir,

I am directed to refer to CE (NH), Bangalore letter No. CNH/TA-2/AE9/F No. WDN/03/NH-150A/ Design Ch. 442.180 Design Ch. 539/10/2017-18/4568 dated 01.12.2017 forwarding an estimate amounting to Rs 254.89 crore for the above noted work and to say that the estimate has been examined in the Ministry and modified for Rs. 242.61 crore in the light of comments contained in the enclosed Technical Note.

2. I am to convey the technical, administrative and financial sanction of the President of India to the estimate amounting to Rs. 242.61 crore (Rupees Two hundred forty two crore & sixty one lakh only).

3. The work has been assigned Job No. NH-150A-KNT-2017-18-890. This Job No. may be quoted in all future correspondence regarding this work.

4. The expenditure is debitable to Major Head '5054' Capital Outlay on Roads & Bridges, 01-National Highways (Sub Major Head), 01.337 Road Works (Minor Head), 03 (NH Original Works), 03.01 Works financed from Central Road Fund 03.01.53 Major Works under demand No. '81'- Ministry of Road Transport & Highways NH (O) for the year 2017-18.

5. The sanction is further subject to the following conditions:

- (i) The work shall be executed by inviting the E-tender on EPC mode.
- (ii) The work shall be completed as targeted and indicated in the enclosed technical note to ensure that there shall not be any cost over-run due to time over run.

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- (iii) In accordance with the orders contained in this Ministry's Circular letter No. RW/NH-11026/2/99-US(D-I) dated 29/10/2001 issued in supersession of earlier Circular NO. RW/NH/11026/2/99-US(D-1) dated 13.01.2000, if the cost of tender exceeds 5% of sanctioned estimated cost, the revised estimate be got sanctioned from the Ministry. Further, the tenders for the work shall be invited by adopting e-procurement/e-tendering procedure as per Ministry's Circular No. RW/NH-24035/4/2008-P&M/PIC dated 21.05.2011, in addition to guidelines issued by this Ministry's Circular letter No. RW/NH-11024/3/99-US(D-I) dated 09.03.2000, No. RW/NH-24035/4/2008-P&M dated 21.05.2010 and No. NH-12037/67/2010LWE dated 02.08.2010. The work shall be awarded as per guidelines issued by the Ministry vide letter No. NH-15015/29/2001-PL dated 05.07.2001.
- (iv) On completion of 50% work if the appraisal of the project shows that it will necessitate revision of the estimate based upon the physical completion of the project vis-à-vis financial expenditure immediate action should be taken to submit the revised estimate so as to ensure that the sanctioned revised estimate is available before necessary for incurring expenditure beyond permissible limits arises.
- (v) The expenditure during the current financial year on this work as also on other sanctioned work should not exceed the allotment placed at the disposal of the State Government during the year.

6. Regional Officer, M/oRT&H, Bangalore will be Drawing and Disbursing Officer.

7. Quarterly progress report in the stipulated proforma may be sent to this Ministry as is being done for all sanctioned works in respect of this work

8. The technical approval and financial sanction may lapse after six months from the date of its issue in case the work is not awarded within that period.

9. The following physical and financial target shall be strictly adhered to. Phasing of expenditure shall be as given below:-

Financial Year	Milestone	Physical %age	Cumulative progress		
			Financial(Rs. in cr.)		
			Construction	Maintenance	Total (Rs. in cr.)
2017-18	Milestone-I	10%	23.37	0.00	23.37
2018-19	Milestone-II	70%	163.60	0.00	163.60
2019-20	Completion	100%	233.72	0.00	233.72
2020-21		100%	0.00	0.91	234.63
2021-22		100%	0.00	1.81	236.44
2022-23		100%	0.00	2.66	239.10
2023-24		100%	0.00	3.51	242.61

10. This sanction issues with the concurrence of the Finance Wing vide U.O. No. 2510/TF-II/17 dated 24.01.2018.

Yours faithfully,

(Ram Raj Meena)

Under Secretary to the Government of India

Copy with a copy of technical note forwarded to: -

1. The Chief Engineer, National Highways, K.R. Circle, Bangalore-560 001.
2. The Supdt. Engineer, Ministry of Road Tpt. & Highways, PWD Annexe Building, K.R. Circle, Bangalore-560001.
3. The Accountant General, Karnataka, Bangalore-560 001.
4. The Pay & Accounts Officer, Ministry of Road Tpt. & Highways, IDA Building, Jamnagar House, New Delhi.
5. The Pay & Accounts Officer, Ministry of Road Tpt. & Highways, Kandriya Sadan, 1st Floor, 17-Main Road, II-Block, Bangalore-34.
6. The Principal Director of Audit, Economics & Services Ministries, A.G.C.R. Building, New Delhi.
7. CGM, NHAI, Karnataka
8. PF-I Division, Ministry of Finance, North Block, New Delhi.

Encl: -As above.

(Ram Raj Meena)

Under Secretary to the Government of India

Copy to: -

2. P.S. to Minister (RT&H)/CE (Zone-4) /FW (TF-II) / Guard file.



**Government of India**  
**Ministry of Road Transport & Highways**  
 Office of the Chief Engineer-Regional Officer  
 PWD Annexe Building, KR Circle, Bangalore-560 001  
 Email: [robengaluru@gmail.com](mailto:robengaluru@gmail.com); Telephone: 080-22217457, 080-22105765 (F)

No. RW/BNG/GENL/Inspection Report/107/2020 / 3212

Date: 25.02.2020

To

✓ The Chief Engineer,  
 National Highways,  
 Karnataka Public Works Department,  
 K.R. Circle, Bangalore - 560 001.

Subject: Inspection Report of Shri S. Vijaya Kumar, Chief Engineer-Regional Officer,  
 Ministry of Road Transport & Highways, PWD Annexe Building, Bangalore.

Sir,

Please find enclosed herewith the inspection report of Shri S. Vijaya Kumar, Chief Engineer-Regional Officer, Ministry of Road Transport & Highways, PWD Annexe Building, Bangalore for the inspection of works on National Highways No 234 and 150A Tumkur Division inspected on 29.01.2020. However, the detailed proposals as suggested in the inspection report may be submitted and got approval of Ministry prior to execution of work. Compliance to the report may please be sent to this office at the earliest.

Yours faithfully,

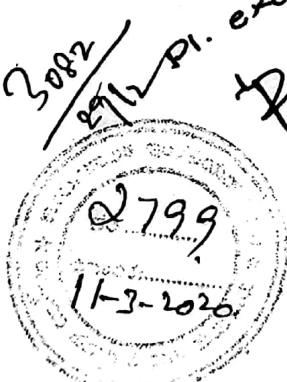
(Praveen Kumar P)  
 Executive Engineer

for Chief Engineer-Regional Officer

TA-2 Encl: As above

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ಅ.ಇಂ(ವಿ)	
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ನಿಬಂಧಕರು	1.
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ಇಂಪ. ವಹಿ ಸಂಪ್ತಿ	23/01/2020
ದಿನಾಂಕ	3.

- The Director General (Road Development) & Special Secretary to Govt. of India, Ministry of Road Transport & Highways, Transport Bhavan, No.1, Parliament Street, New Delhi-110001 - for kind information
- The Superintending Engineer, National Highways Circle, Bangalore - for information and necessary action
- The Executive Engineer, National Highway Division, Tumkur - for information and necessary action.
- The Assistant Executive Engineer, Quality Control Sub Division, National Highways, Bangalore - for information and necessary action.



ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್ ಕಛೇರಿ	
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ಇ.ಇ. ಇಂಜಿನಿಯರ್	23/01/2020
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ಇಂಪ. ವಹಿ	
ಅಧೀಕ್ಷಕ ವಹಿ	23/01/2020

(Praveen Kumar P)  
 Executive Engineer

for Chief Engineer-Regional Officer

**Inspection notes of Sri S. Vijaya Kumar, Chief Engineer-Regional Officer,**

**MoRT&H, Bangalore for the Inspection on 29-01-2020**

**Officers Present:-**

1. Sri. Krishnamurthy, SE, National Highways Circle, Bangalore.
2. Sri. K.P. Mahadevaiah, EE NH Division, Tumkur.
3. Sri. M. Chidanadappa, AEE NH Sub Division, Tumkur.
4. Sri. Paramesh Gowda, AEE NH Sub Division, Bellur Cross.
5. Sri Basavaraju, AEE, Quality Control, NH Sub Division, Chitradurga.
6. Sri Avinash, AE, Quality Control, NH Sub Division, Chitradurga.
7. Sri. Sampanth Kumar, AE Sub Division, Tumkur.
8. Sri. K.G. Krishna Naik, AE Sub Division, Tumkur.

**Agency Representative:**

1. Sri. N. Muralidhara EPC Contractor Technical Adviser
2. Sri G Ananda Design Director from EPC Contractor and their Team
3. Sri Dhanraj H.B and Sri Prasanna from EPC Project Team

**A. Name of Work:-** Reconstruction to Two lane with paved shoulders from Ds.Ch. 442+180 (Ex. Km 448.00) to Ds.Ch. 485.240 (Ex.km 494.000) of Huliyaar to KB Cross section and from Ds.Ch. 532+100 (Ex. Km 533.150) Ds.Ch.539+100 (Ex. Km 540.175) from KB Cross to Nelligere section of NH-150A in the State of Karnataka on EPC mode.

The Chief Engineer-Regional Officer, MoRT&H, Bengaluru and Officers Inspected the Base camp established almost in the middle of the stretch between K.B. Cross & Huliyaar Stretch of the Project and observed deployment of requisite Machineries and Equipments, Quality Laboratory and other facilities. Contractor has also briefed that they have erected and commissioned 250 TPH Crusher near JC Pura and erection of 120 TPH HMP is in progress. The Physical and Financial Progress of the Project was discussed in General.

**Critical issues observed, discussed during Site Visit along the alignment are enumerated as below:**

1. It was observed that there is about 13m cutting required at the starting point of the Project at Design Chainage 442+180. In order to match gradient and connect with the existing Road behind the start of the Project, Contractor was instructed to carry out additional survey for Length of about 800 M, beyond starting point i.e. Design chainage 442+180, where the proposed profile smoothly joins with existing road. Contractor has agreed to carry out the same and submit the design proposal based on the Survey Data within 15 days.
2. NH-officers were instructed to get the clearances for the portion of road stretch from Ds.Ch 442+180 to 443+50 from the Forest Department before taking up the realignment portion as already approved for execution.

3. The Executive Engineer and the Agency representative have informed that as per schedule, the Box Culverts at Ch; 458+396, 455+764 & 454+640 have to be widened. But in actuality, widening is not possible as these culverts have been structurally deteriorated. These Culverts were also physically examined by all and discussed at site. The Contractor has also shown the results of the NDT and Pulse Velocity Test results carried out for these Culvert locations, which proved the deterioration of the Culverts Structure. The details of the examined culverts are tabulated below:

Sl.No	Design Chainage	No of Vent	Existing Span	Existing Height	Existing Type	Existing Substructure	Existing Superstructure
1	454+640	1	2.3M	1.3 M	Slab Culvert	Size stone Masonry	RCC Slab
2	455+764	1	5.4M	1.3M	Slab Culvert	Size stone Masonry	RCC Slab
3	458+396	1	3.0M	1.5M	Slab Culvert	Size stone Masonry	RCC Slab

It is reported by the PWD officers that the vent way of existing culvert at km 455.764 is not sufficient and requires minimum width of 7m for smooth flow of water. It is also reported that the above 3 culverts are badly damaged and requires reconstruction. The same is agreed to. However, the detailed proposal may be submitted under variation immediately and prior approval may be obtained from the Ministry before commencement of the work.

4. Executive Engineer and Contractor have brought the issues in widening stretch 469/260 to 477/160 for a length of 7.9km. As per Schedule B, this is indicated as widening. This total length can be divided into following three stretches.

**A] 471+716 to 474+830:**

This stretch is portion of Highway Passing through CN Halli heavily built up area. Hence the FRL cannot be changed from the existing one, due to existing limitations and constraint's of heavily built up in CN Halli Town limit.

**B] 469+260 to 471+716:**

This stretch is towards Huliya and in this segment, Four Box culverts are to be constructed at 469+870, 470+ 536, 470+722 and 471+570. Hence, as per DPR FRL and Designed profile, reconstruction is resorted considering Highway Geometrics and requirements of Box Culverts from Hydraulic criteria.

**C] 474+830 to 477+160:**

This stretch is towards KB cross and in this segment, 3 Box culverts at chainage 475+368, 475+633 and 475+795 and Minor Bridge at 475+871 needs to be constructed. Here also as per DPR FRL and designed profile reconstruction is restored considering Highway Geometrics and requirements of Box culverts /Minor Bride from Hydraulic criteria.

The above constraints were seen and discussed at site along with plan and profile of the reach. In principle, the proposal is agreeable. However, the detailed proposal may be submitted under variation immediately and prior approval may be obtained from the Ministry before commencement of the work.

5. The merging of the end of stretch near KB cross with existing road was seen and discussed. There is clear distance of about 400m between road ending near KB-Cross and the junction of NH-206 and NH-150A at the KB-Cross. This distance shall be utilized for purpose of margining with present road construction. It is instructed to collect Junction drawing of intersection of NH-206 and NH 150 A from the NHAI and to finalize the arrangement at junction point with NH 206.
6. The Chief Engineer also inspected Nelligeri Cross section from Ch 532+100 to 539+100. Executive Engineer and Contractor have reported that stretch is still not handed over for execution. EE has assured this will handed over very soon and Land acquisition process in advance stage. EE/AEE has indicated that Culverts works in this stretch can be taken at present.
7. It is observed that the reach about 250m before ROB in Km 539 is not matching with the existing ROB carriageway arrangement. It is instructed to extend the road upto the boundary of ROB Approach from the end of the Project stretch 539+100 to have better connectivity and uniform carriageway width without any financial implication by utilizing saving quantities elsewhere in project alignment from the quantities of 4-Lane section.
8. It is also instructed to pursue with the District Conservator of Forest, Tumkur to obtain permission for cutting of trees, as Afforestation payment bill is already approved and recommended for payment.
9. It is also instructed to submit the pending utility shifting estimates and land acquisition notification at the earliest, for which Executive Engineer, NH Division, Tumkur has agreed.

B. **Name of work:-** Improvements and Reconstruction to two lane with paved shoulder from Km 243/200 to Km 290/200 of NH-234 (Huliyar- Sira section) In the State of Karnataka on EPC Mode.(Job NO:NH-234-KNT-2016-17-815

Critical issues observed, discussed during Site Visit along the alignment are enumerated as below:

1. From Km.289.775 to 290.020 for a length of 245 mts, the stretch has been recently (3 years back) built to four lane by the agency M/s JMC-KMC(JV) under the Job No.234-KNT-2010-030. As the road is still under good condition there is no need to take up the work in this section. Therefore, the stretch from Km.289.775 to 290.020 may be de-scoped.
2. In the median portion to be filled by fertile soil to grow plantation.

3. Drain on both sides of the under pass portion at Intersection of NH-48 at Km 288.70 on NH-234 may be reconstructed with perforated covering slabs to utilize the drain portion as carriage way to increase the carriageway width from 8 M to 10 M for smooth flow of traffic.
4. It appears that the carriage way width of minor bridge at Km 285.49 in the curve portion is lesser than the required width i.e 9.8 M. As such, it is instructed to provide extra width at curve portion as per MORT&H guidelines.
5. It is observed an electrical tower of capacity 66 KV exists at Km 268+800, which is obstructing the improvements at that location as per existing alignment. In this regard, to avoid huge investment on shifting of 66 KV lines, it is instructed to realign the proposed centerline towards right hand side (opposite side of tower) and to construct all protective works to safeguard the 66 KV tower.
6. It is also instructed to complete the drainage work at Huliya town limit from Km 244.80 to 245.00 at the earliest.
7. Since the project is delayed, it is instructed to speed up the process of land acquisition and to complete the project at the earliest.

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