

F. No RW/RO/CG/AP2019-20/NH-30(Old-221)
Government of India
Ministry of Road Transport & Highways (Zone-4)
Transport Bhawan, 1, Parliament Street, New Delhi - 110001

Dated: 30.03.2020

To

The Secretary to the Govt. of Chhattisgarh
Public Works Department,
Government of Chhattisgarh,
Raipur-492002

Subject: - Widening & strengthening work in Km.25.530 to 31.540 = 6.010 of NH-30 (Old NH-221) of Jagdalpur-Sukma-Konta Road.

(Job No. 30(221)-CG-2019-20-84)

Sir,

I am directed to refer to Chief Engineer (NH), PWD, Raipur Memo No. 50/W/CE/NH/Raipur dated 20.02.2020 forwarding therewith estimate for strengthening for the above noted work and to say that the above estimate have been examined in the Ministry and approved for Rs. 1599.409 lakhs 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. 1599.409 lakh (Rupees Fifteen Crore Ninety Nine Lakhs & Fourty One Thousand only).

3. The work has been assigned the following (Job No. 30(221)-CG-2019-20-84) 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. '83'- Ministry of Road Transport & Highways NH (O) for the year 2019-20.

5. In accordance with the orders contained in this Ministry's letter No. 24035/4/2008-P&M/PIC Vol II dated 23.2.2018 addressed to the State Public Works Department, if the cost of tender exceeds 5% of sanctioned estimated cost, the revised estimate be got sanctioned from the Ministry and all the works above Rs. 5.00 crore are mandatory to be taken up on EPC mode and works less than Rs. 5.00 crore may be on SBD/EPC mode. 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 No. NH-12037/67/2010LWE dated 02.08.2010 and RW/NH-34066/14/2018-S&R(P&B) dated 25.6.2018. The work shall be awarded as per guidelines issued by the Ministry vide letter No. NH-15015/29/2001-PL dated 05.07.2001.

6. It is requested that arrangements may be made for the submission of quarterly progress report in respect of this work by the Executive Engineer concerned to the Director General (Road Development) Government of India.

7. 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.

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

9. The Regional Officer, M/o RT&H, Raipur, Chhattisgarh will be Drawing and

Disbursing Officer.

10. The following physical and financial target shall be strictly adhered to.

Year	Physical	Financial Progress (Rs In Lakh)
2020-21	100%	1570.78
2021-22		
2022-23		
2023-24	Maintenance	1599.41
2024-25		
2025-26		

11. This sanction issues with the concurrence of the Finance Wing vide Note # dated .

12. Condition of the road should be recorded by Network Survey vehicle before the start of work and during the execution, completion and the defect liability period before payments are released and the same should be clearly specified in the tender documents/agreement.

Yours faithfully,

Encl: As above

(Ranajit Kumar Roy)
Under Secretary to the Government of India

Copy of the technical note forwarded to:

1. Accountant General, Chhattisgarh administration, Pindri, Raipur-492002.
2. The Chief Engineer (NH), Public Works Department, NH Campus, Pension Bada, Raipur, Chhattisgarh, 492001.
3. The Pay and Accounts Officer, Ministry of Road Transport & Highways, IDA Building, Jamnagar Houses, Shahjahan Road, New Delhi.
4. The RO, Ministry of Road Transport & Highways (RW), NH-Campus, Pension Bada, Raipur, Chhattisgarh.
5. The Pay & Accounts Officer, M/o Road Transport & Highways, Raipur.
6. The Principal, Director of Audit, Economics & Services Ministries, IP Estate, New Delhi.

Yours faithfully,

(Ranajit Kumar Roy)
Under Secretary to the Government of India

Copy for information:-

CE (Zone-4/ W&A Section/ Fin. Wing/ Guard file.

Digitally signed by RANJIT KUMAR
ROY
Date: Tue Mar 31 16:15:30 IST 2020
Reason: Approved



**GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT & HIGHWAYS**

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

F. No.....

Dated:

TECHNICAL NOTE

(Job No. 30 (221)-CG-2019-20-)

1.	Name of work	Widening & strengthening work in Km.25.530 to 31.540 = 6.010 of NH-30 (Old NH-221) of Jagdalpur-Sukma-Konta Road.	
2.	NH No.	30 (Old NH-221)	
3.	Length in Km.	6.010 Km.	
4.	State/Division	Chhattisgarh/NH Division Sukma	
5.	Estimated Cost	As proposed by the State PWD	As per Technical sanctioned by Ministry
	(Rs. in lakh)	Rs.1643.096 lakh	Rs.1599.409 lakh
6.	Rate per Km.	Rs.273.39 lakh	Rs.266.12lakh
7.	Reference	Chief Engineer (NH), PWD, Raipur Memo No. 430/W/CE/ NH/ Raipur dated 20.02.2020.	

COMMENTS

1. Scope of Work

The scope of work is widening & strengthening work in Km.25.530 to 31.540 = 6.010 of NH-30 (Old NH-221) of Jagdalpur-Sukma-Konta Road in the State of Chhattisgarh.

2. Provisions: The following provision have been made in the estimate: -

- (i) Clearing and Grubbing
- (ii) Embankment for roadway formation
- (iii) Cement Treated Crushed Stone Sub Base Grading-III, 200mm thick.
- (iv) Wet Mix Macadam (W.M.M), 150mm thick
- (v) Prime Coat
- (vi) Tack Coat
- (vii) Dense Bituminous Macadam (D.B.M.), grade-II, 50mm thick
- (viii) Bituminous Concrete (BC), grade-II, 40mm thick
- (ix) Construction of granular shoulder 1.50mtr. Both side thick 150mm.
- (x) R.C.C. drain, 3050m long
- (xi) Protection Work
- (xii) Miscellaneous Provision-Retro-reflectorized Traffic signs, Road Marking with Hot Applied Thermoplastic Compound with Reflectorizing Glass Beads, Delineator, Direction and Place Identification signs & Hazard Marker Type-2.
- (xiii) Proposed culvert 1x2.0m, 11nos and 1 no. culvert widening

3 Rates: The estimate has been framed based on S.O.R. for road works issued by Chief Engineer (NH), PWD, Raipur w.e.f. 15.11.2019.

4. Specifications & Quality Control:

- 4.1** The work shall be executed as per Ministry's specifications for Road and Bridge works (5th Revision) and Ministry's Circular/Instructions issued from time to time. The deviation in

- specifications, scope of work, if any, must be reported to the Ministry and should be got approved from the Ministry before adopting the same.
- 4.2 Modified Bitumen or VG-40 shall be used in BC as per Ministry's guidelines issued vide circular no. RW/NH-35072/05/2018-S&R(P&B) dated 24.08.18. Stipulations of IRC SP 53-2010 shall be scrupulously followed as regards use of modified bitumen. Performance of BC layer shall be recorded twice a year and reported to Ministry/RO Raipur.
- 4.3 Manual for Quality Control in Road & Bridge works, IRC:SP:112-2017 and Ministry's Specifications for Road & Bridge Works, 5th Revision shall be followed for observing strict quality control instructions contained in Ministry's letter No. NH-III/P/1/83 dated 19-04-1084 and permanent records maintained thereof.
- 4.4 The existing surface shall be prepared to the required profile in accordance with Clause 501.8 and 902.3 of Ministry's Specifications. Extra provision required for patching potholes and sealing cracks for preparing the existing surface before laying bituminous layers shall be got executed as per Ministry's specification.
- 4.5 The time period for this work shall not be more than 10 months. The Defect Liability Period for the above work shall be 5 years as per Ministry's circular no. NH-33044/10/2002/S&R(P&B) dated 21.08.2018.
- 4.6 In accordance with Ministry's Circular No. NH-11026/2/99-US (D.I) dated 29th October, 2001, it would be ensured that while accepting the tenders, the overall cost at tender rates including centages does not exceed by more than 5% of the sanctioned cost. In case the cost of the work exceeds 5% of the sanctioned cost, revised sanction of the Ministry should be obtained.
- 4.7 As per Ministry's letter dated 19.08.2019 "Hot in Place recycling is to be preferred to be over the conventional surface renewal (laying new bituminous concrete). Just to begin with and to equip more and more contractor capable of taking recycling work, at least 25% of the stretches to be sanctioned for PR should be in Hot in place recycling technology". In view of the CE (NH) PWD shall ensure necessary action.
- 5 **Invitation of Bids:**
- 5.1 The bids for the work shall be invited through e-tendering system as per the instructions issued vide Ministry's Circular letter Nos. RW/NH/33044/2010S&R(R) dated 17.06.2011 and RW/NH/33044/2010-S&R(R) dated 17.11.2011, in addition to guidelines issued vide Ministry's circular no. RW/NH-34066/14/2018-S&R(P&B) dated 25.06.2018.
- 5.2 CVC guidelines for tendering process may also be followed wherever applicable.
- 5.3 The work shall be awarded as per Ministry's circular no. RW/NH-15015/29/2001-PL dated 5th July, 2001 and as per circular no. RW/NH-24035/4/2008-P&M/PIC Vol. II dated 23.02.2018 and compliance reported to the Ministry. If the work is not awarded within the stipulated time, it may lead to de-sanction of the work unless Ministry's prior approval to extension of the time limit is obtained.
- 6 **Splitting of work:**
No splitting of work is allowed.
- 7 **General Observations:**
- 7.1 No work beyond the scope of the sanctioned estimate leading either to increase in the scope of work or change in specifications should be undertaken without obtaining prior written approval of the Ministry. In this connection, Ministry's circular Nos. RW/NHIII/Coord/32/84 dated 19.05.1984 and RW/NH-33044/10/2002/S&R(R) dated 09.09.2002 may be referred.
- 7.2 It must be ensured that the contractor arranges for separate land for storage of road construction material and machinery and these shall not be allowed to be stacked on roadside.
- 7.3 Bitumen used for the work shall be heated in boilers only and not in drums on open fire. Spraying of bitumen wherever necessary should be done only with the mechanical sprayers and

premixing of bitumen and stone aggregates should be done only in the proper mechanical mixer/hot mix plant.

- 7.4 Traffic management during the construction period should be done as per instructions contained in the relevant Ministry's specification/ circular/guidelines and guidelines contained in IRC:SP:55-2014.
- 7.5 Display board on development activities of the work shall be made as per guidelines issued vide Ministry's circular no. RW/NH-33044/10/2002-S&R(R) dated 26.05.2003. The cost of the same may be met out of the contingencies allowed in the estimate.
- 7.6 Three stage videography (before, during and after completion of work) shall be done and videos may be furnished to Regional Officer, MORT&H Raipur before final payment is released. In this regard Ministry's circular No. NH-22023/16/2005-P&M dated 18.05.2005 may kindly be referred to.
- 7.7 The provision of contingencies shall be utilized as per Ministry's circular no. RW/24035/4/2008-P&M/PIC vol. II dated 23.02.2018.

8. **Cost of the work:** Estimate cost of civil work is Rs.1145.109 lakh. The estimated total cost of the work is **Rs.1599.41 lakhs** including agency charge in the light of the comments made above. The details are as under:

Sl. No	Description	As proposed by PWD (Rs. in lakh)	As modified by RO, Raipur (Rs. in lakh)	Remarks
A	Civil Work (including const. culvert)	1145.109	1145.109	
	Utility / Forest clearance	187.49	-	
B	GST @ 12% of (A)	159.918	137.413	Centage, agency charges are taken as per Ministry's Circular No.RW/NH-33044/10/2019-S&R(P&B) dated 07.03.2019
	Sub-Total (A+B)	1492.517	1282.522	
C	Contingency @ 2.8% of (A)	37.312	32.063	
D	Supervision Charges @ 3% of (A)	39.977	34.353	
E	Quality Control @ 1% of (A)	13.325	-	
F	Agency Charge @ 3% of (A)	39.977	34.353	
G	Maintenance Charges @ 1.5% of (A)	19.988	-	
H	Maintenance Charges @ 2.5% of (A)	-	28.627	
I	Utility / Forest clearance	-	187.49	
	Total (A+B+C+D+E+F+G)	1643.096	1599.41	

Phasing of expenditure: Following physical and financial targets may be adhered to, depending upon the availability of funds:

Financial Year	Cumulative	
	Physical (%)	Financial (Rs. in Lakhs)
2020-21	100%	1570.78
2021-22	Maintenance	1599.41
2022-23		
2023-24		
2024-25		
2025-26		

[Signature]
27/3/2020
Assistant Executive Engineer
Zone-IV, MoRTH