

I/4014977/2022

File No. RO/UK/NH-309A/Ranikhet/2021-22/PKG-5 (Computer No. 207380 )



सत्यमेव जयते

Government of India

Ministry of Road, Transport &amp; Highways

(Zone-I)-II

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

Date- 28.10.2022

To,

The Pay and Accounts Officer (NH)  
O/o Principal Chief Controller of Accounts,  
Ministry of Road Transport & Highways  
IDA Building, Jamnagar House,  
New Delhi - 110011

**Sub:** - Financial sanction of ₹450.68Cr. for the work "Rehabilitation and up-gradation to 2-lane configuration of Kangarchina to Almora road from km 161.600 to Km 196.670 (Existing Chainage 169.00 to Km 206.00) of NH-309A in the State of Uttarakhand (Package-V) under NH(O)"

**Ref:** - Chief Engineer (NH) Level-1, PWD, Govt. of Uttarakhand, vide letter no. 2910/22 Yata/Ra.Ma.-(U)/2022 dated 12.07.2022

(Job. no.NH-309A/AP/UK/2022-

23/627)

Sir,

I am directed to convey the Financial Sanction of the President of India for the above mentioned work amounting to ₹450.68Cr.including agency charges and other centages.

2. The expenditure shall be allowed to be incurred as per the year wise phasing details for the total sanction amount as mentioned below in accordance with the terms and conditions of the work sanction letter and technical note: -

Year	Cumulative Progress			
	Physical (%)	Financial (₹. crores)		
		Construction	Maintenance	Total
2022-23	30	132.40	-	132.40
2023-24	80	353.08	-	353.08
2024-25	100	441.35	-	441.35

Handwritten signature and a circled number 1/2.

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2025-26	100	441.35	-	441.35
2026-27	100	441.35	1.87	443.21
2027-28	100	441.35	3.73	445.08
2028-29	100	441.35	5.60	446.95
2029-30	100	441.35	9.34	450.68

3 . The expenditure will be debitable under Demand no. 86 for the financial year 2022-23 for Ministry of Road Transport & Highways under accounting Major Head '5054' Capital Outlay on Roads & Bridges 01-National Highways (Sub Major Head), 01.337 Road Works (Minor Head), 03 National Highways Original Works, 03.01 Works financed from Central Road Fund, 03.01.53 Major Works.

4. The accounts of PWD shall be open to inspection by the sanctioning authority and audit, both by the C&AG and internal audit by the Office of Principal Chief Controller of Accounts.

5. This issues with the concurrence of the Finance Wing vide **Note#51** dated 19.09.2022, Concurrence of SFC on meeting dated 12.10.2022 and approval of Competent Authority vide **Note#81** dated 19.10.2022.

Yours faithfully,



(Kamal Parkash)

Under Secretary to the  
Government of India

Copy to: -

- The Chief Engineer (North-I), Ministry of Road Transport & Highways, Transport Bhawan, 1-Parliament Street, New Delhi-110001.
- The Engineering in Chief/The Chief Engineer (NH) Level-1, PWD, Yamuna Colony, Dehradun, Uttarakhand
- The Chief Engineer-Regional Officer, 46/1, Canal Road, Jakhan, Dehradun - 248 001
- AFA, IFD, Ministry of Road transport & Highways, Transport Bhawan, 1-Parliament Street, New Delhi-110001

Copy for information and necessary action to:-

- Sr. PPS to Secretary (RT&H)
- Sr. PPS to DG(RD)&SS
- Sr. PPS to AS&FA, Ministry of Road transport & Highways, Transport Bhawan, 1-Parliament Street, New Delhi-110001
- Sr. PPS to Pr. CCA, M/oRT&H, , IDA Building, Jamnagar House, New Delhi -



I/4014977/2022

110011.

(Kamal Parkash)  
Under Secretary to the  
Government of India



I/4014977/2022

File No. RO/UK/NH-309A/Ranikhet/2021-22/PKG-5 (Computer No. 207380 )



Government of India  
Ministry of Road, Transport & Highways  
(Zone-1)  
Transport Bhawan, 1-Parliament Street, New Delhi-110001

Date- 28.10.2022

To,

The Principal Secretary (PWD),  
Govt. of Uttarakhand, Secretariat,  
4-Subhas Road, Dehradun, Uttarakhand

**Sub:** - Rehabilitation and up-gradation to 2-lane configuration of Kangarchina to Almora road from km 161.600 to Km 196.670 (Existing Chainage 169.00 to Km 206.00) of NH-309A in the State of Uttarakhand (Package-V) under NH(O)

**Ref:** - Chief Engineer (NH) Level-1, PWD, Govt. of Uttarakhand, vide letter no. 2910/22 Yata/Ra.Ma.-(U)/2022 dated 12.07.2022

(Job no. NH-309A/AP/UK/2022-

23/627)

Sir,

I am directed to convey the Technical Sanction, Administrative Approval and Financial Sanction of the President of India to the estimate for the work mentioned in the subject above, to be taken up under item rate basis of contract, as per the following details: -

(₹ in Cr.)

i. Amount as indicated in the estimate & submitted	₹445.93
ii. Amount of Administrative Approval	
₹450.68	
iii. Amount of Financial Sanction	₹450.68
iv. Amount modified in the Regional office	₹450.68
v. Amount of Technical Sanction	
₹450.68	

(Rupees Four Hundred Fifty Crore Sixty Eight Lakh only)



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2. This sanction is further subject to the following conditions: -

- i. The work should be completed as per target indicated in the enclosed Technical Note. As such there shall not be any cost over-run due to time over-run. Stipulations made in the Technical Note shall be strictly adhered to.
- ii. On completion of 50% work, if 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 necessity for incurring expenditure beyond permissible limits.
- iii. The tenders for the work shall be invited **adopting e-procurement/e-tendering on Ministry's portal** as per Ministry's Circular no. RW/NH-24035/4/2008-P&M/PIC dated 21.05.2011, RW/NH-24035/4/2008-P&M/PIC Vol. II dated 23/02/2018. The advertisement for invitation of tenders shall be done as per Ministry's letter no. RW/NH-34066/14/2018-S&R(R&B) dated 25.06.2018 & RW/NH/33044/2/2010-S&RI dated 01/06/2011 and dated 17/11/2011 respectively. Invitation of bids shall be initiated immediately after sanctioning of the project.
- iv. The guidelines for acceptance of tenders and award of work circulated vide Ministry's letter no. RW/NH-24035/4/2008-P&M/PIC Vol. II dated 23.02.2018 shall be followed strictly.
- v. The expenditure during the current financial year on this work as also on the other sanctioned work should not exceed the allotment placed at the disposal of the State Government during the year.
- vi. In accordance with the order contained in this Ministry's letter No. RW/NH-24035/4/2008-P&M/PIC Vol. II dated 23.02.2018, it would be ensured while accepting the tenders that the overall cost at tender rates including contingencies and agency charges does not exceed by more than 5% of the sanctioned cost. Sanction of the Ministry for the revised estimate shall be obtained where the cost exceeds 5% of the sanctioned cost.

3. Regional Officer, Dehradun of the Ministry will act as Drawing and Disbursing Officer (DDO) for this work.

4. The expenditure will be debitable under Demand no. 86 for the financial year 2022-23 for Ministry of Road Transport & Highways under accounting Major Head '5054' Capital Outlay on Roads & Bridges 01-National Highways (Sub Major Head), 01.337 Road Works (Minor Head), 03 National Highways Original Works, 03.01 Works financed from Central Road Fund, 03.01.53 Major Works.

5. The Technical approval and Financial Sanction may lapse after **Six months**

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from the date of its issue in case the work is not awarded within that period. In this connection, guidelines issued vide Ministry's Circular No. RW/NH-24035/4/2008- P&M/PIC Vol. II dated 23.02.2018 shall be referred to.

6. This approval is issued in accordance with the powers delegated to CE-RO by the Ministry vide Ministry's OM no. RW/NH-24035/4/2008-P&M/PIC Vol. II dated 23/02/2018.

7. The following physical and financial targets may be achieved subject to the availability of funds:

Year	Cumulative Progress			
	Physical (%)	Financial (₹. crores)		
		Construction	Maintenance	Total
2022-23	30	132.40	-	132.40
2023-24	80	353.08	-	353.08
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2027-28	100	441.35	3.73	445.08
2028-29	100	441.35	5.60	446.95
2029-30	100	441.35	9.34	450.68

8. This issues with the concurrence of the Finance Wing vide their **Note#51** dated 19.09.2022, Concurrence of SFC on meeting dated 12.10.2022, approval of Competent Authority vide **Note#81** dated 19.10.2022.

(Kamal Parkash)

Under Secretary to the Government of  
India

Copy to (with a copy of Technical Note): -

- The Chief Engineer (North-I), Ministry of Road Transport & Highways, Transport Bhawan, 1-Parliament Street, New Delhi-110001.
- The Chief Engineer (NH) Level-1, PWD, Yamuna Colony, Dehradun, Uttarakhand.
- The Chief Engineer-Regional Officer, 46/1, Canal Road, Jakhan, Dehradun - 248 001
- AFA, IFD, Ministry of Road transport & Highways, Transport Bhawan, 1-Parliament Street, New Delhi-110001
- The Pay and Accounts Officer (NH), O/o Principal Chief Controller of Accounts, Ministry of Road Transport & Highways, IDA Building, Jamnagar House, New Delhi - 110011
- The Superintending Engineer, 10<sup>th</sup> NH Circle, Haldwani, Uttarakhand.

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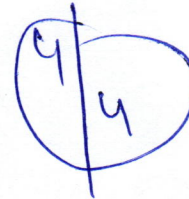
I/4014977/2022

vii. The Executive Engineer, NH-Division, PWD, Ranikhet, Uttarakhand.



(Kamal Parkash)

Under Secretary to the Government of  
India







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Office of Chief Engineer - Regional Officer, Dehradun  
Ministry of Road Transport & Highways  
Government of India

No. RO/UK/NH-309A/Ranikhet/2021-22/PKG-5 (C. no. 207380)

Date:- 27.10.2022


TECHNICAL NOTE

1.	Name of work	:	Rehabilitation and up-gradation to 2-lane configuration of Kangarchina to Almora road from km 161.600 to Km 196.670 (Existing Chainage 169.00 to Km 206.00) of NH-309A in the State of Uttarakhand (Package-V) under NH(O)	
2.	NH No.	:	NH-309A	
3.	Length in km	:	35.070	
4.	State	:	Uttarakhand	
5.	Estimated Cost (in ₹ Cr.)	:	As submitted by the State PWD	As modified in the Ministry
		:	445.93	450.68
6.	Reference	:	Chief Engineer (NH), PWD Uttarakhand vide letter no. 2910/22 Yata/Ra.Ma.-(U)/2022 dated 12.07.2022	
7.	Job No	:	NH-309A/AP/UK/2022-23/627	

1. **Scope of work:** "Rehabilitation and up-gradation to 2-lane configuration of Kangarchina to Almora road from km 161.600 to Km 196.670 (Existing Chainage 169.00 to Km 206.00) of NH-309A in the State of Uttarakhand (Package-V) under NH(O)". It shall be noted that the work is being taken up on EPC basis and hence at this stage provisions as submitted by State PWD for estimate purpose are being allowed.

1.1 The following provisions have been allowed in the estimate: -

- Hill side cutting work to achieve 9.200 mtr. (13m in urban areas) formation width in 35.07 km (widening portion) length as per best industry practices including muck disposal.
- Construction of sub-grade and Earthen Shoulders including scarifying existing bituminous surface to a depth of 50 mm in 35.07km length as per design and specifications.
- Laying of CTSB in 200mm depth, WMM in 150mm depth (2 layers of 125mm each) and Prime coat in 35.07km length. 3% excess has been considered for extra widening.
- Providing and laying of Dense Bituminous Macadam (DBM) in minimum 50 mm thickness and Bituminous Concrete (BC) in minimum 30 mm thickness including Tack coat in 7.00m width in 35.07 km length as per design and specifications. 3% excess has been considered for extra widening.

  
Assistant Executive Engineer  
Regional Office, Dehradun  
Ministry of Road Transport & Highways  
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- v. Installation of 2106 nos. retro- reflectorized cautionary, mandatory and informatory sign as per IRC:67, and Place Identification signs of 44 nos. and Overhead signs of 5Nos. as per specification.
- vi. Providing Road Marking with Hot Applied Thermoplastic Compound with Reflectoring Glass Beads 2.5 mm thick as per IRC:35 (150mm wide for edge line and 100mm wide for center line) in complete length of the project road including markings for junctions.
- vii. Installation of 7 nos. 5<sup>th</sup> Km stones, 29 nos. Ordinary km stones and 140 nos. Hectometer stones.
- viii. Installation of 515 nos. Road Delineators as per specifications.
- ix. Construction of 154 nos. concrete M15 grade boundary pillars.
- x. Utility Duct of 300mm dia of HDPE pipe with Manhole chambers of size 1.2 x 1.2 x 1.5 m at 200m interval as per specifications and drawings
- xi. "THRIE":Metal Beam Crash Barrier for a length of 31.99 kms.
- xii. Installation of 15037 nos. Road Markers/Road Stud with Lens Reflector as per specifications.
- xiii. Muck disposal, protection using Reinforced Earth steep slopes, which includes reinforcement elements comprising of minimum 50mm wide geosynthetic strap made of polyester yarns and encapsulated in LLDPE sheathing and the minimum coefficient of apparent friction at the top most layer shall be 1.5 with mechanical connection to the facing element and backfill material in accordance with the specifications and in reasonably close conformity with the lines, grades, design and dimensions shown on the approved drawings.
- xiv. Provision of Retaining wall in 8590Rmt. on valley side & breast wall in 8708Rmt. on hill side along with check wall/toe wall as per drawings & specification.
- xv. Improvement of 14 junctions (3 major and 11 minor) as per drawings & specification.
- xvi. Construction of KC-drain for (3.080km+3.080km) both sides total 6.160km. 30.53km single side V Shape drain & (1.46+1.46) total 2.92 km in both side. V shape drain & K-C type drain as per TCS & drawings.
- xvii. Construction of total 315 no box culvert (315 nos. 2m span) as per drawings and specifications.
- xviii. Construction of 100 nos. Village pathways in 50m length each.
- xix. Construction of 1nos. of Minor bridges of span 14 m as per drawings and Specifications.
- xx. Provision of Bus Shelter and 02 Nos. of rest area including construction of PWD office building as per specifications.

## 2. General

2.1 The work shall be executed as per Ministry's "Specifications for Road and Bridge Works (Fifth Revision -2013)" and instructions issued by this Ministry from time to time.

  
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 Ministry of Road Transport & Highways  
 Government of India



Deviation in specifications for any work should be got approved from the Ministry before adopting the same.

2.2 Neither the work nor any item of work shall be split into small parts for awarding the work to a number of contractors. In case any splitting is essential due to specific prevailing considerations, it shall be done only after prior approval of this Ministry. In this regard instructions issued in this Ministry's letter no. NH-III/P/25/84 dated 04.08.1984 may be referred.

2.3 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 letter No.RW/NH•24035/4/2008-P&M/PIC Vol. II dated 23 February 2018 may be referred.

2.4 The guidelines regarding Acceptance of Bids and Award of Works as per Ministry's letter No.RW/NH•24035/4/2008-P&M/PIC Vol. II dated 23<sup>rd</sup> February 2018 must be followed. The state PWD will intimate this Ministry and Ministry's Regional officer at Dehradun about award of contract/commencement of work immediately as per instructions contained in this Ministry letter no. RW/NH-11060/1/98-(DO-I) dated 05.11.1998.

2.5 Collection of material on the roadside should be so planned that it would commensurate with the physical progress of work and collected materials should not cause any hindrance to the traffic. 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.

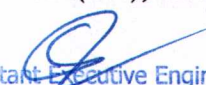
2.6 The work is to be carried out in accordance with the "Hand Book of Quality Control for construction of Roads & Runways (Second Revision) -IRC: SP:11- 1988", observing strict quality control instructions contained in Ministry's letter No. NHIII/P/I/83 dated 19.04.1984 and permanent records maintained thereof. The State PWD may get some testing done for quality control of the work from accredited laboratories keeping in view of IRC: SP:94: 2001.

2.7 CVC guidelines in tendering shall be strictly adhered to.

2.8 **Video/photo** records of the road, before/during & after the execution of work shall be made available in the Ministry and the R.O. Dehradun. The project display boards are to be erected on the either end of the project reach as per the Ministry's letter No.RW/NH-33044/10/2001-S&R (R) dated 17.07.2001.

2.10 The construction period for the work has been taken as 30 months. Defect liability period shall be as per Cl. 17.1.(i) of Ministry's Circular no- RW/NH-37010/4/2010-EAP(Printing) Vol.IV dated 05.03.2019 which states Five years for the instant case

2.11 The provision of contingencies should be utilized as per Ministry's circular letter no. RW/NH-24035/4/2008-P&M/PIC Vol. II dated 23/02/2018 with the approval of the Ministry. The estimates for carrying out the activities under the provision of contingencies **including change in scope of work will be** approved by Ministry on assurance/certification by CE (NH), State PWD, Uttarakhand that the amount provided against contingencies is available and the same has not been indirectly utilized by accepting higher tender rates. CE (NH), State PWD,

  
Assistant Executive Engineer  
Regional Office, Dehradun  
Ministry of Road Transport & Highways  
Government of India



Uttarakhand shall also certify that approval of estimates to be charged to contingencies will not cause revision of the sanctioned estimate.

2.12 Regional Officer, Dehradun of the Ministry will act as Drawing and Disbursing Officer (DDO) for this work.

### 3. Tender

3.1 The tenders for the work shall be invited as per guidelines issued by this Ministry vide Circular No. RW/NH-24035/4/2008-P&M/PIC Vol. II dated 25/06/2018 related to e-publishing. The guidelines issued vide letter No. RW/NH-24035/4/2008-P&M/PIC dated 27.11.2009, RW/NH-24035/4/2008-P&M/PIC Vol. II dated 23/02/2018 and RW/NH-37010/4/2010-EAP(Printing) Vol. IV dated 07.10.2019, NH-35014/35/2020-H dated 02.11.2020 and G-20016/01/2020-TF-II dated 17.11.2020 regarding procedure to be adopted for invitation of tenders and pre-qualification of contractors be followed.

3.2 The tenders for the work shall be invited **adopting e-procurement/e-tendering on Ministry's portal** as per Ministry's Circular no. RW/NH-24035/4/2008-P&M/PIC dated 21.05.2011, RW/NH-24035/4/2008-P&M/PIC Vol. II dated 23/02/2018, RW/NH-37010/4/2010-EAP(Printing) Vol. IV dated 05.03.2019 and RW/NH-37010/4/2010-EAP(Printing) Vol. IV dated 07.10.2019, NH-35014/35/2020-H dated 02.11.2020 and G-20016/01/2020-TF-II dated 17.11.2020. The work shall be awarded as per guidelines issued by the Ministry vide letter no. NH-15015/29/2001-PL dated 05.07.2001 and RW/NH-24035/4/2008-P&M/PIC Vol. II dated 23/02/2018.

3.3 The time limit for awarding of this work is **6 months** from the date of sanction and should be strictly followed as per the instructions issued vide this Ministry's letter no. RW/NH-15015/29/2001-PL dated 05.07.2001 and RW/NH-24035/4/2008-P&M/PIC Vol. II dated 23/02/2018. 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.

3.4 Guidelines regarding procedure for invitation of tenders and qualification of contractors shall strictly be as per Ministry's letter No. RW/NH-37010/4/2010-EAP(Printing) Vol. IV dated 05.03.2019 and RW/NH-37010/4/2010-EAP(Printing) Vol. IV dated 07.10.2019, NH-35014/35/2020-H dated 02.11.2020 & F. No. G-20016/01/2020-TF-11 dated 17.11.2020.

### 4. Schedule of Rates

The Approved Estimate is based on approved SOR rates (MoRT&H) Block Takula & Hawalbagh for the State of Uttarakhand which are effective from 01/05/2021. SOR rates issued by state PWD is exclusive of GST as per State PWD order no. 260/10 adhiprapti/2019 dated 02.05.2019 (GST @18% has been adopted).

### 5. Pre-construction activities:

5.1 Land acquisition: After adopting a Proposed ROW is 18.0 m and in realignment section is 24m. The total forest land area required to be acquired is 18.405 hectares.

Reserve Forest Land - 13.00 hectares

Civil Forest land - 0.63 hectares

  
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Regional Office, Dehradun  
Ministry of Road Transport & Highways  
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Village forest - 4.775 hectares

Total Forest land - 18.405 hectares

The private land to be acquired is around 5.8 hectares. The activities of 3A are under Progress.

5.2 Environmental Clearance: Environment Clearance is not required for two lanning of Project Highway as per MOEF Notification on 22<sup>nd</sup> Aug 2013.

5.3 Forest Clearance: Proposal for Stage-I forest clearance has been uploaded & approval is expected soon. Total forest land in is 18.405 Ha. (proposal no. FP/UK/Road/151120/2022) (proposal no. FP/UK/Road/151120/2022).

5.4 Wildlife Clearance: Proposal of wildlife clearance has been uploaded & the same has been cleared from State wildlife board, currently the proposal is under examination with National wildlife board (proposal no. FP/UK/Road/151120/2022).

5.5 Utilities shifting: Utility Shifting estimates have been obtained for shifting of utilities such as Electric poles by UPCL and water supply line by Uttarakhand Jal Sansthan habitat area and are incorporated in the estimates for an amount of ₹7,00,61,000.

## 6. Cost

The total cost as proposed by State PWD works out to ₹450.68 centages, which has been calculated as per Ministry's Circular no. RW/NH-37010/4/2010-EAP(Printing) Vol.IV dated 05.03.2019 and RW-NH-33044/10/2019-S&R (P&B) dated 07.03.2019, as per details given below: -

ABSTRACT				
Sr. No.	Description	Unit	length(km)/ Number	Amount in Figure (In ₹)
1	Designed Length		35.07	35.070
2	Construction Period			30 months
3	Civil Construction Cost Estimates			
(i)	Site-Clearance	Km	-	-
(ii)	Earthwork ,Erosion Control & Drainage	Km	35.070	23,75,06,393.59
(iii)	Sub-base, Base Courses & Shoulder	Km	35.070	37,16,33,382.71
(iv)	Surface Courses (Bituminous)	Km	35.070	26,32,62,613.35
(v)	Traffic Signs, Marking	Km	35.070	17,42,73,431.22

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	and Other Appurtenances			
(vi)	Bus Shelter	Nos.	12	11,04,012.12
(vii)	Toll Plaza	-	-	-
(viii)	Muck Disposal & Dumping Structure			17,40,79,334.78
(ix)	Junction Improvement (Major Junction)	Nos.	3	1,95,64,842.65
(x)	Junction Improvement (Minor Junction)		11	
(xi)	Cost Of Drainage	Km		4,80,48,047.42
(xii)	Cost of Village pathways	Nos.	100	1,07,02,778.40
(xiii)	Cost Of Breast Wall	Meter	8708.00	25,14,54,361.62
(xiv)	Cost Of Retaining Wall	Meter	8590.00	20,91,29,582.50
(xv)	Cost Of Gabian Wall	Meter		-
(xvi)	Land slide treatment	Sqm		5,63,49,300.00
(xvii)	Rest Area	Nos.	2.00	8,00,00,000.00
(xviii)	Utility Duct Pipe	Rm	35070.00	12,15,21,217.00
I	Civil Construction Cost (Road Portion)			2,01,86,29,297.36
(i)	Major Bridges	Nos.		-
(ii)	Minor Bridge	Nos.	1	1,34,82,120.44
(iii)	HPC/Box, Culvert	Nos.	315	1,04,14,55,979.90
II	Civil Construction Cost (Structures)			1,05,49,38,100.34
III	EMP Cost			6,03,00,000.00
III	Safety and Traffic Management during Construction (1% of Construction Cost)			3,13,38,673.98
A	Total Estimated Civil Construction Cost			3,16,52,06,071.67
	Per Km. Civil Cost			9,02,53,951.29
4	Pre-Construction Activities			
(i)	Land Acquisition Cost			18,90,00,000.00
(ii)	Utility Shifting			7,00,61,000.00

  
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(iii)	N.P.B. for forest Land			2,00,00,000.00
(iv)	Compensatory reforestation and maintenance of plants in 10 years etc. @700000.00/Hec.	Hec.		1,96,39,200.00
<b>B</b>	<b>Total Pre-Construction Estimates</b>			<b>29,87,00,200.00</b>
(i)	GST @ 18% of 'A' above if the SOR does not include any component of VAT/GST			56,97,37,092.90
(ii)	Contingencies @ 1% of A above			3,16,52,060.72
(iii)	Agency Charges 3% on 'A'			9,49,56,182.15
(iv)	Supervision Charges 3% on 'A'			9,49,56,182.15
(v)	Price Escalation @ 5% of 'A' above as per phasing of the project execution only for the period beyond one year of the Bid submission date less first year cost of 'A'			15,82,60,303.58
(vi)	Maintenance during Construction/ Defect Liability Period (calculate as per the rates prescribed in the latest document on EPC Contracts i.e. issued on 05.03.2019 By MoRT&H) @ 2.5% of "A".			7,91,30,151.79
(vii)	GST @ 18% on Maintenance cost			1,42,43,427.32
<b>C</b>	<b>Total Provision for GST/Contingencies and Centages</b>			<b>1,04,29,35,400.62</b>
<b>D</b>	<b>Total Sanctioned Cost of the Project (A+B+C)</b>			<b>4,50,68,41,672.29</b>
	<b>Per Km. Cost</b>			<b>12,85,09,885.15</b>

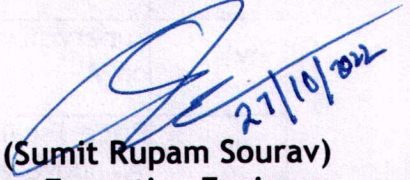
  
 Assistant Executive Engineer  
 Regional Office, Dehradun  
 Ministry of Road Transport & Highways  
 Government of India



7. Phasing of work:

Following physical and financial targets shall be adhered to with a view to ensuring timely completion of the work.

Year	Cumulative Progress			
	Physical (%)	Financial (₹. crores)		
		Construction	Maintenance	Total
2022-23	30	132.40	-	132.40
2023-24	80	353.08	-	353.08
2024-25	100	441.35	-	441.35
2025-26	100	441.35	-	441.35
2026-27	100	441.35	1.87	443.21
2027-28	100	441.35	3.73	445.08
2028-29	100	441.35	5.60	446.95
2029-30	100	441.35	9.34	450.68

  
(Sumit Rupam Sourav)  
Assistant Executive Engineer  
For Chief Engineer - Regional Officer