

**OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS**  
**(HEAD OF FOREST FORCE), MAHARASHTRA STATE, NAGPUR**  
 ADDITIONAL PRINCIPAL CHIEF CONSERVATOR OF FORESTS AND NODAL OFFICER, MAHARASHTRA STATE, NAGPUR,  
 First Floor, 'B' Wing, Van Bhavan, Civil Lines, Nagpur-440001.  
 Tel no. (0712) 2530166, 2556916, Fax no. (0712) 2550675 E-mail- apccfnodal@mahaforest.gov.in

No. Desk-17/FCA-S1/PID-141097/Thane/2023-24/2917  
 Nagpur – 440 001, Date:- 12/01/2024

To,  
 The Deputy Director General (Central)  
 Ministry of Environment, Forests, and Climate Change,  
 Regional Office, Ground Floor, East Wing,  
 New Secretariate Building, Civil Lines,  
 Nagpur- 440001

**Sub:-** Diversion of 9.9249 ha. forest land in favour of National Highway Division, Pen-Raigad for rehabilitation and up-gradation of existing highway to 2 lane/ 4 lane with paved shoulder under configuration from Pen-Khopoli-Mahad (Km.00+000 to Km 33+328) section of NH-166 D (Pen-Khopoli-Mahad) Engineering, Procurement & Construction (EPC) Basis in Raigad district in the State of Maharashtra-reg.

- Ref-** 1) The Government of India, MoEF&CC, Integrated Regional Office, Nagpur vide letter No. F.No.FC-II/MH-229/2023-NGP/12459, dated 09/11/2023.  
 2) The Chief Conservator of Forests (T), Thane letter No. Desk-10/FCA/CR-28/2023-24/OW-523, dated 28/12/2023.

The Government of India, Ministry of Environment, Forests and Climate Change, Regional Office, Nagpur vide letter under reference No. 1 has raised back query on 02 points. Accordingly, the Chief Conservator of Forests (T), Thane vide letter under reference No. 2 has submitted the compliance report to this office. The same may be submitted as under:-

Sr. No.	Query	Compliance
i	Maps viz. Differential GPS Map, Index Map Soil toposheet on 1:50,000 scale. Project layout map, 10 Km radius map showing PA's Village Map. Protected area distance map and alternative Map is not submitted along with the proposal. Map certified by concerned DCF needs to be submitted.	<p>The Deputy Conservator of Forests, Alibag and the Chief Conservator of Forests (T), Thane vide letter dated 19/12/2023 &amp; 28/12/2023 has submitted compliance:-</p> <p>i) Maps viz Differential GPS Map. Index Maps of Toposheet on 1:50,000 scale is enclosed herewith as <b>(Annexure No.I)</b>.</p> <p>ii) Project layout map 10 km radius map showing PV's Village map is enclosed herewith as <b>(Annexure No.II)</b></p> <p>iii) Protected area distance map is enclosed herewith as <b>(Annexure No.III)</b></p> <p>This project is Rehabilitation and Upgradation of existing highway to 2 lane/ 4 lane with paved shoulder; hence the said project does not need to three alignment map.</p>
ii	Since the User Agency is of PWD, CA land should be proposed equivalent non forest land. Accordingly, CA shall be proposed over equivalent non forest land adjoining to forest land and CA details viz., site specific CA scheme, site suitability certificate, Differential	<p>The Deputy Conservator of Forests, Alibag and the Chief Conservator of Forests (T), Thane vide letter dated 19/12/2023 &amp; 28/12/2023 has submitted compliance:-</p> <p>It is submitted that, this road is blongs to National Highway having No.166D and it is in control of the</p>

	GPS map and KML file shall be submitted.	<p>Ministry of Road Transport &amp; Highways, department of Central Government. State PWD is the only implementing Agency and executing the rehabilitation work of this highway by Central Government funds on EPC basis. Copies of the notifications is enclosed herewith as <b>(Annexure No.IV)</b></p> <p>As this project is belongs to Central Government, non forest CA area is not taken and C.A is proposed on Degraded Forest land.</p>
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In view of the above facts, the aforesaid compliance submitted for further needful action.

Encl : As above



**(Shailesh G. Tembhurnikar)**  
**Principal Chief Conservator of Forests,**  
**(Head of Forest Force)**  
**Maharashtra State, Nagpur**

Copy submitted to the Principal Secretary (Forests), Revenue & Forest Department, Mantralaya  
Mumbai -32 for information.

Copy to the Chief Conservator of Forests (T), Thane for information.

Copy to the Deputy Conservator of Forests, Alibag Forest Division, Alibag for information.

Copy to the Project Authority, Executive Engineer, National Highway Division Pen, Dist. Raigad,  
Pen-402107 for information.



महाराष्ट्र शासन  
वनविभाग



९५

मुख्य वनसंरक्षक (प्रा.), ठाणे वनवृत्त, ठाणे यांचे कार्यालय  
मायक्रो वेव्ह टॉवर, बारा बंगला एरिया, कोपरी कॉलनी ठाणे पूर्व, पिन- 400 603  
दुरध्वनी क्रमांक - 022-25329642 / 25329865

Email: [ccfthane@mahaforest.gov.in](mailto:ccfthane@mahaforest.gov.in) / [ccfthane@gmail.com](mailto:ccfthane@gmail.com)

**Letter**

Subject :- Proposal for rehabilitation & up-gradation of existing highway to 2 lane/4 lane with Paved Shoulder under configuration from Pen-Khopoli (Km. 00+000 to Km. 33+328) Section of NH-166D (Pen-Khopoli) on Engineering Procurement & Construction (EPC) Basics in Raigad District in the State of Maharashtra. (Area 9.9249 ha.)

No.Desk-10/FCA/CR-28/22-23/OW-523 /2023-24  
Thane - 400603, Dated : 28/12/2023.

✓ To,

Additional Principal Chief Conservator of Forests  
and Nodal Officer,  
M.S. Nagpur.

- Reference :- 1) GoI, MoEF & CC, IRO, Nagpur office letter No. FC-II/MH-229/2023-NGP/12459, dated 09.11.2023.  
2) Your office letter No.Desk-17/Nodal/FCA/S1/Thane/PID-141097/2023-24/2437, dated 20.11.2023.  
3) Deputy Conservator of Forests, Alibag letter No.A/20/land/FCA/ 1654, dated 19.12.2023.

GoI, MoEF & CC, Regional office, Nagpur has raised 1 to 2 observations vide Reference No.1.

Accordingly, the Deputy Conservator of Forests, Alibag has submitted the compliance report vide Reference No.3.

Four copies of the compliance submitted by Deputy Conservator of Forests, Alibag are enclosed herewith for your information and further necessary action.

Encl :- As Stated.

K. P. -   
(K. Pradeepa)  
Chief Conservator of Forests (T.), Thane

Copy to the Deputy Conservator of Forests, Alibag for information and necessary action.

Copy to the Project Authority, Executive Engineer National Highway Division Pen, Dist. Raigad, Pen - 402107 for information and necessary action.

4899  
5/11/24



मुख्य वनसंरक्षण (प्रा.) ठाणे, वनकृत ठाणे  
यांचे कार्यालय  
कक्ष क्रमांक 16  
21 DEC 2023  
आवक क्रमांक 13027  
महाराष्ट्र शासन  
उप वनसंरक्षक, अलिबाग यांचे कार्यालय, अलिबाग



94

"वृक्षवल्ली आम्हा सोबरे वनचो"

मु.पो.हिराकोट तलावाजवळ अलिबाग ता.अलिबाग जि.रायगड पी.नं. ४०२ २०१  
दूरध्वनी क्र ०२१४१-२२२०१६/२२२२१६ Email ID:dycfalibag@mahaforest.gov.in

जावक क्रमांक: - अ/२०/जमिन/वसं/1655 /२०२३-२४ दिनांक:- 19 / १२ /२०२३.

प्रति,

मुख्य वनसंरक्षक,  
ठाणे

विषय:- वन जमिन रायगड

पेण - खोपोली (०.००० कि.मी ते ३३.३२९ कि.मी.) सेक्शन ऑफ एनएच-१६६ डी मधील रस्त्याचे रुंदीकरणाकरीता वनजमिन मागणी प्रस्ताव ...क्षेत्र ९.९२४९ हेक्टर

संदर्भ:- १) केंद्र शासनाकडील पत्र क्र.FC-II/MH-२२७/२०२३-NGP/१२४५९,  
दिनांक ०९/११/२०२३

- २) अपर प्रधान मुख्य वनसंरक्षक व केंद्रस्थ अधिकारी, म.रा.नागपूर यांचेकडील पत्र क्र. कक्ष-१७/नोडल/एफसीए/आयडी-१४१०९७/ठाणे/२०२३-२४/२४३७, दि. २४/०४/२०२३.
- ३) आपलेकडील पत्र क्र. कक्ष-१०/वसं/प्र.क्र.२८/२२-२३/४६१, दिनांक २२/११/२०२३.
- ४) या कार्यालयाचे पत्र क्र. ब/२०/जमीन/वसं/३५२, दिनांक ०४/०५/२०२३
- ५) प्रकल्प यंत्रणेकडील पत्र क्र. NHD/Pen/PB-५/Pen-Khopoli/२४१४,  
दि. ०७/१२/२०२३

केंद्रशासनाकडील संदर्भित पत्र क्र. १ अन्वये वन (संवर्धन) अधिनियम १९८० अंतर्गत पेण- खोपोली (०.००० कि.मी ते ३३.३२९ कि.मी.) सेक्शन ऑफ एनएच-१६६ डी मधील रस्त्याचे रुंदीकरणाकरीता ९.९२४९ हेक्टर वन जमिन मागणी प्रस्तावांत २ मुददे उपस्थित करणेत आलेले आहेत. त्याअनुषंगाने संदर्भित पत्र क्र. २ व ३ अन्वये सदर मुददयांची पूर्तता करून अहवाल सादर करणेबाबत कळविणेत आले आहे.

त्याअनुषंगाने प्रकल्प यंत्रणेकडील संदर्भित पत्र क्र. ५ अन्वये सदर मुददयांची पूर्तता अहवाल सादर करणेत आलेला आहे. त्यानुसार खालील पूर्तता अहवाल सादर करणेत येत आहे.

S.No.	Query	Compliance
1	Maps viz Differential GPS Map. Index Maps of toposheet on 1:50,000 scale. Project layout map 10 km radius map showing PV's. Village map. Protected area distance map and alternative Map is not submitted along the proposal. Maps certified by concerned DCF needs to be submitted.	i) Maps viz Differential GPS Map. Index Maps of Toposheet on 1:50,000 scale submitted in proposal on Page No. 242 to 273. ii) Project layout map 10 km radius map showing PV's. Village map is submitted herewith annexure 1. iii) Protected area distance map submitted in proposal on Page No. 242. This project is Rehabilitation and Up-gradation of existing highway to 2 lane / 4 lane with paved shoulder; hence the said project does not need to three alignment map.



2	<p>Since the User Agency is of PWD. CA land should be proposed equivalent non-forest Land; Accordingly, CA shall be proposed over equivalent non-forest land adjoining to forest land and CA details site specific CA scheme, site suitability certificate. Differential GPS map and KML file shall be submitted</p>	<p>It is submitted that, this road is belongs to National Highway having No. 166D and it is in control of the Ministry of Road Transport &amp; Highways, department of Central Government. State PWD is the only implementing Agency and executing the rehabilitation work of this highway by Central Government funds on EPC basis. Copies of notifications are submitted for kind perusal. <b>annexure 2.</b></p> <p>As this project is belongs to Central Government, non-forest C.A. area is not taken and C.A. is proposed on degraded forest land.</p>
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सोबत वरील प्रमाणे दस्तऐवजांचे ४ प्रती या सोबत जोडून सादर केल्या आहेत. तरी पुढील कार्यवाही होणेस विनंती आहे.

सहपत्र:- वरील प्रमाणे.

(राहुल पाटील, भा.व.से.)

उप वनसंरक्षक,  
अलिबाग वनविभाग, अलिबाग.

प्रतिलिपी:- अपर प्रधान मुख्य वनसंरक्षक व केंद्रस्थ अधिकारी, म.रा.नागपुर यांचेकडे माहितीसाठी सादर.

प्रतिलिपी:- कार्यकारी अभियंता, राष्ट्रीय महामार्ग विभाग, पेण रायगड यांचेकडे माहितीसाठी रवाना.



Office of the Executive Engineer,  
National Highway (P.W.) Division,  
Pen - 402 107

Tele:- 02143 256860

Email:- eenhpen@gmail.com

Web: <http://www.mahapwd.com>

No.NHD/Pen/ PB -5 / Pen Khopoli / 2414

Date: 07.12.2023

To  
Deputy Conservator of Forest  
Alibag - Raigad

Sub :- Diversion of 9.9249 Ha. Forest land is favour of National Highway Division, Pen Raigad for Rehabilitation and Up-gradation of existing highway to 2 lane / 4 lane with paved shoulder under configuration from Pen-Khopoli-Mahad (KM 00+000 to KM 33+328) section of NH-166 D (Pen-Khopoli-Mahad) on Engineering, Procurement & Construction (EPC) Basis in the state of Maharashtra  
- Submission Compliance of 2 Queries raised by department of Forest, Central Government.

- Ref:-
1. Govt. of India letter NoFC-II/MH-227/2023-NGP/12459, दिनांक 09.11.2023.
  2. APCCF Nagpur letter No Desk -17/Nodal/FCA/S-9/PID-141097/Thane / 2023-24/2437, Dt.20.11.2023.
  3. CCF Thane Marathi letter No Desk -10/वसं/प्र.क्र.28/22-23/46 Dt. 22.11.2023.
  4. DCF Alibag Marathi letter No ब / 20/जमिन/वसं/ 5230 /2023-24. Dt. 23.11.2023.

With reference to the subject mentioned above a forest land diversion proposal for Rehabilitation and Up-gradation of existing Pen - Khopoli highway (km 0.000 to km 33.328) section of NH 166D has been submitted by this office.

The said proposal was submitted by the concerned senior office of Forest Department to the office of Secretary, Revenue and Forest Department, Government of Maharashtra and thereafter by the State Government of Maharashtra to the Central Government India.

Forest office, Central Government of India has raised 2 Queries vide letter under reference no 1. Also concerns offices have been informed about raised 2 Queries and ask to submit the compliance vide letter under reference no. 2, 3 and 4.

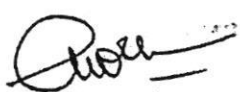
The Point wise compliance regarding the said 2 Queries is being submitted in English language as below and 6 copies of the revised proposal are being submitted to your office for further submission of the said proposal.

No	Point Raised by Central Govt.	Compliance
1	Maps viz Differential GPS Map. Index Maps of toposheet on 1:50,000 scale. Project layout map 10 km radius map showing PV's. Village map. Protected area distance map and alternative Map is not submitted along the proposal. Maps certified by concerned DCF needs to be submitted.	<p>i) Maps viz Differential GPS Map, Index Maps of Toposheet on 1:50,000 scale submitted proposal on Page No. 242 to 273.</p> <p>ii) Project layout map 10 km radius map showing PV's. Village map is submitted herewith.</p> <p>iii) Protected area distance map submitted proposal on Page No. 242.</p> <p>This project is Rehabilitation and Up-gradation of existing highway to 2 lane / 4 lane with paved shoulder, hence the said project does not need to Three alignment map.</p>

Land  
Survey  
08/12

<p>2 Since the User Agency is of PWD. CA land should be proposed equivalent non-forest Land. Accordingly, CA shall be proposed over equivalent non-forest land adjoining to forest land and CA details site specific CA scheme, site suitability certificate. Differential GPS map and KML file shall be submitted.</p>	<p>It is submitted that National Highway 166D is belongs to the Ministry of Road Transport &amp; Highways, department of Central Government. State PWD is the only implementing Agency, and executing the rehabilitation work of this highway by Central Government funds on EPC basis. As this project is belongs to Central Government it is requested to approve submitted proposal for CA Land.</p>
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Encl:- Revised Proposal in  
6 Copies

  
Executive Engineer,  
National Highway (PW) Division,  
Pen

Copy submitted to The PCCF (HoFF), Government of Maharashtra, Nagpur for information please.

Copy submitted to The Addl. PCCF & Nodal Officer (FCA), Government of Maharashtra, and Nagpur for information please.

Copy forwarded to The Sub Divisional Engineer, N. H. (P.W.) Sub division Pen for information & further necessary action.

Copy to M/s Dhruv Consultancy Services Pvt Ltd. in Association with Acculead Consultancy Service LLP. for information and necessary action.

Copy to M/s J. M. Mhatre Infra Pvt. Ltd. Panvel - Raigad for information and necessary action.



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No 12014/150/2017-MAH  
Government of India  
Ministry of Road Transport & Highways  
(Zone-4)  
Transport Bhawan, 1, Parliament Street, New Delhi - 110001

Dated: 20<sup>th</sup> March, 2018

To  
The Secretary to the Govt. of Maharashtra  
Public Works Department,  
Government of Maharashtra,  
Mumbai-400032

Sub:- Upgradation to 2 lane with paved shoulder standards of Highway Starting at NH-66 (17) near Pen connecting to Ransai and terminating at its junction with NH-548A near Madh (Mahad Ashtvinyak), NH-166D approximate length of 33.328 km in the state of Maharashtra on EPC mode.

(Job No. NH-166D-MAH-2017-18- 1211)

Sir,

I am directed to refer to Chief Engineer (NH), Maharashtra letter No. CE(NH)/P-1/2847/2017 Dated 16/11/2017 forwarding an estimate amounting to Rs. 317.15 crore for the above noted work and to say that the estimate has been examined in the Ministry and modified for Rs. 301.39 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. 301.39 crore (Rupees Three hundred one crore and thirty nine lakh only).

3. The work has been assigned Job No. NH-166D-MAH-2017-18-1211. 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) LOA will be issued only after the issue of entrustment notification u/s 5 of NH Act, 1956.
- (iii) 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.



- (iv) 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.
- (v) 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.
- (vi) 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. 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
7. The Regional Officer, M/o RT&H, Mumbai will be Drawing and Disbursing Officer.
8. The following physical and financial target shall be strictly adhered to. Phasing of expenditure shall be as given below:-


Year	Milestone	Cumulative progress			
		Physical	Financial (Rs. in Crore.)		
			Construction	Maintenance	Total
2017-18	Milestone I	Preliminary	0.05	0	0.05
2018-19	Milestone II	40%	118.50	0	118.50
2019-20	Milestone III	100%	296.25	0	296.25
2020-21	Maintenance	100%	0.00	0.51	296.76
2021-22	Maintenance	100%	0.00	1.54	297.79
2022-23	Maintenance	100%	0.00	3.08	299.33
2023-24	Maintenance	100%	0.00	5.14	301.39

  
20/3/2018

No. 12014/150/2017-MAH

9. This sanction issues with the concurrence of the Finance Wing vide U.O. No. 2825/TF-II/2017 dated 13.02.2018.

Yours faithfully,

  
20/2/2018


(Ram Raj Meena)

Under Secretary to the Government of India

Encl. As stated.

Copy to:

1. The Chief Secretary to the Govt. of Maharashtra, Mumbai-400032.
2. The Chief Engineer, National Highways, Room No-527, Konkan Bhawan, Navi Mumbai-400614. / C.E. MSRDC
3. The Regional Officer(Mumbai), Office of Regional Officer, M/o RT&H Maharashtra & Goa, Room No. 508-509, 5<sup>th</sup> Floor, Konkan Bhawan, CBD Belapur, 5<sup>th</sup> Floor, Navi Mumbai-400614
4. The Principal Director of Audit, Economics and Services Ministries, AGCR Building, IP Estate, New Delhi
5. PF-I Division, Ministry of Finance, North Block, New Delhi.
6. The Secretary, Deptt. Of Finance, Govt. of Maharashtra, Sachivalaya, Mumbai-400032.
7. The RPAO, M/o RTH, 3<sup>rd</sup> Floor, Cavasji Patel Street, Mehar House, Mumbai.
8. The Pay & Accounts Officer, Ministry of Road Transport & Highways(RW), IDA, Building, Jamnagar House, Shahjahan Road, New Delhi.

  
(Ram Raj Meena)

Under Secretary to the Government of India

Copy also to: -

1. P.S. to Minister (RT&H).
2. CE( Zone-4)/W & A Section/ Guard file



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

Dated: March, 2018

TECHNICAL NOTE

1.	Name of work	:	Upgradation to 2 lane with paved shoulder standards of Highway Starting at NH-66 (17) near Pen connecting to Ransai and terminating at its junction with NH-548A near Madh (MahadAshtvinyak), NH-166D approximate length of 33.328 km in the state of Maharashtra on EPC mode.	
2.	NH No	:	166 D	
3.	State and Division	:	Maharashtra & National Highway Division, Pen.	
4.	Estimated cost (Rs. in Cr.)		As submitted by State PWD 317.15	As modified by Ministry 301.39
5.	Length in km	:	33.328	33.328
6.	Cost / km (Amount in Rs. Crore)	:	9.51	9.04
7.	Reference	:	Letter No. CE (NH)/P-1/2847/2017 dated: 16/11/2017 from CE (NH), PWD, Navi Mumbai, and Government of Maharashtra.	

COMMENTS1. Scope of work:

Upgradation to 2 lane with paved shoulder standards of Highway Starting at NH-66 (17) near Pen connecting to Ransai and terminating at its junction with NH-548A near Madh (MahadAshtvinyak), NH-166D approximate length of 33.328 km in the state of Maharashtra on EPC mode.

2. Provisions allowed in the estimate:

The State PWD has submitted the cost estimate for the instant work amounting to Rs. 317.15 Cr which has been modified to Rs. 301.39 Cr. The provisions allowed in the estimate are as per Schedule B & C of the tender documents. The cost estimate is as below:

Sr.no	Items	Total Amount ( Rs.)	% Weightage w.r.t Total Civil Cost
1	2	3	4
A	<b>Widening and strengthening of existing road</b>		
1	Site Clearance including dismantling	1.64	0.80
2	Earthwork	24.77	12.04
3	Granular work (sub-base, base, shoulders)	15.63	7.60
4	Bituminous work		
	(a) BC	0.98	0.48
	(b) DBM	2.85	1.38
	<b>Total Bituminous Work</b>	<b>3.83</b>	<b>1.86</b>
5	Cement Concrete pavement work		
	(a) PQC	65.22	31.70
	(b) DLC	18.28	8.88
	<b>Total CC Work</b>	<b>83.50</b>	<b>40.59</b>
6	Micro-surfacing	14.97	7.27
	<b>sub total A</b>	<b>144.34</b>	<b>70.16</b>
B	<b>Major Bridge Works and ROB / RUB</b>		
1	Widening and repairs of major bridges	0.99	0.48
2	Widening and repair of ROB / RUB	-	-
3	New major bridges	11.75	5.71
4	New rail-road bridges		
5	Reinforced earth wall/ protection work		
	<b>sub total B</b>	<b>12.73</b>	<b>6.19</b>
C	<b>Culverts, minor bridges, underpasses, overpasses on existing road, realignments and bypasses:</b>		
1	Culverts	10.40	5.06
2	Minor bridges	12.23	5.94
3	Cattle / Pedestrian underpass	-	-
4	Pedestrian overpass	-	-
5	Grade Separated structures	-	-
6	Light Vehicular Underpass (LVUP)	9.31	4.53
7	Overpass	-	-
	<b>sub total C</b>	<b>31.94</b>	<b>15.53</b>
D	<b>OTHER WORKS</b>		
1	Toll Plaza	3.14	1.53
2	Protection works	8.98	4.36
3	Crash Barrier	0.34	0.16
4	Road signs, markings, km stones, Boundary stones, utility ducts etc.	2.01	0.98
5	Bus bays and Bus Shelter	1.42	0.69

6	Truck lay bye	0.83	0.40
7	Others (Construction of wire fencing and Footpath)	0.00	-
8	Rest Area	0.00	-
9	Paved shoulders of paving blocks	0.00	-
	<b>sub total D</b>	<b>16.72</b>	<b>8.13</b>
	<b>Grant Total (A+B+C+D)</b>	<b>205.73</b>	<b>100.00</b>
1	<b>Per Km Civil Cost</b>	<b>6.17</b>	
2	CIVIL COST (A) =	205.73	
3	Contingency 2.8%	5.76	
4	Total Civil Construction cost (B)	211.49	
5	Agency Charges 3% on B	-	
6	Quality Control on B	-	
7	Road Safety on B	-	
8	Supervision 3% on B	6.48	
9	5% Price escalation on A as per phasing during construction period	10.29	
10	2.5% Maintenance of A	5.14	
11	<b>Centages( C)</b>	<b>21.77</b>	
12	<b>Total project cost (B+C)</b>	<b>233.39</b>	
13	<b>Per km Project cost</b>	<b>7.00</b>	
14	Pre-construction Costs	-	
15	Shifting of electrical poles, transformers etc.	15.00	
16	Shifting water supply lines	3.00	
17	Land Acquisition	50.00	
	<b>Total Capital cost of the project</b>	<b>301.39</b>	

### 3. Utility Shifting:

3.1 As there is Electricity poles are at some places and water supply line at few point found in between ROW, a provision of Rs. 15.00 Crore is considered in estimate for shifting of these utilities. Implementing agency should ensured that the utility shifting estimates do not include provisions for augmentation of existing facility, and the administrative charges payable to the Utility entities shall be restricted to 2.5%.

3.2 The cost of utility shifting shall only include replacement and shifting of existing utility lines. No augmentation of existing utility lines shall be taken up at MoRTHcost. Cost of any other augmentation shall be borne by the State Government utility. The utility lines should be shifted to extreme edge of the RoW. The cost being paid for shifting of utilities shall be considered as a one-time, expenditure. Any further shifting of utilities if required for widening of the road on a future date shall be at the cost of the State Government Utility. The State Government shall take expeditious action for approval of estimates for shifting of utilities and consequent shifting.

### 4. Land Acquisition:

4.1 State PWD has confirmed that 86 % of total land required for project implementation is in possession of Department and status of remaining land acquisition is as under:

Total Land to be acquired = 7.90 Ha,

Accordingly a provision of Rs. 50.00 crore has been made for acquisition of land. CE (NH), PWD may ensure that remaining land should be available by the time the work is awarded.

- 4.2 Land Acquisition for the project may be done by private negotiation only if the amount of compensation payable is no more than the compensation amount payable as per RFTLARR Act. The administrative charges payable for land acquisition should be no more than 2.5% of the compensation amount.
- 4.3 LA for project facilities like toll plaza, rest areas etc - Provision of project facilities like toll plaza, rest areas, truck lay-byes, parking bays etc should be as far as possible made in Government land or available NH RoW. Acquisition of additional land for these purposes should be minimal.

5. Design specifications including deviations, if any:

5.1 All material, design and construction operations for the project are proposed conforming to the IRC: SP: 73-2015, Manual of Specifications and Standards for Two-laning of Highways, IRC-58-2011 and Ministry standard specification Revision-V 2013.

5.2 Paver blocks are generally costly options for providing in spaces between main carriageway and drain or urban areas. Alternative economical solutions may be explored for such provisions.

6. Specifications

- 6.1 Traffic management during construction:-Traffic management should be done as per clause 112 of Ministry's specification, during the construction period it may be insured that the traffic is regulated in conformity to Ministry's guidelines stipulated in clause No.8.2.3 'Manual for construction and supervision of bituminous work.'.
- 6.2 The nomenclature and clause numbers of the items shall be specified as per MORTH specification for Road and Bridge work 2013 (5th revision) and all the works shall be executed strictly as per Ministry's specifications/ Ministry's circular/ guidelines issued from time to time.
- 6.3 Lighting provision in estimates: Wherever, electrical/ lighting installations in urban areas have been provisioned in the project, it should be only one time capital cost and the running and maintenance expenses of such facilities are to be borne by the State Govt/ Municipal bodies. Hence, these facilities should be handed over to them through MOU etc after completion.
- 6.4 Tolling of all improved road sections must be carried out after completion. Hence, Provision should be made for tolling of all projects either through Toll Plaza in the section or through adjacent project section. The arrangement for

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tolling of the project section should be brought out in project proposal. The minimum number of lanes at any Toll Plaza shall be 1:4 on each side i.e. 8 lanes for a two-lane project and the last lane of toll plaza for both ways may be designated for local vehicles and Oversized vehicles.

- 6.5 Location of toll plaza should preferably be 10 km away from municipal limits and also 50-60 km away from another toll plaza in the same NH section as per Toll rules. Wherever, toll plaza locations did not conform to the NH fee rules, relaxation of the Competent Authority should be sought explicitly for the same in the project proposal, giving justification for the same.

## **7. Contract Documents:**

- 7.1 Single stage two-cover bidding is to be adopted as per instructions conveyed vide Ministry's letter no. RW / NH-37010 /4 /2010 / PIC dated 27.05.14 and other amendment issued till date.
- 7.2 RFP and draft contract documents may be adopted as per the draft Model RFP and EPC documents \ approved by the Ministry after making project specific changes as well as amendments circulated by Ministry vide circular No. RWINH-3701 0/4/201 O/PIC-EAP(Printing) dated 05.10.2015.
- 7.3 Construction period for this work shall not be more than 18 months including the rainy period. Defects liability period and maintenance period shall be 4 years as specified in the amendments to Model EPC Document issued vide Ministry's letter no. RW/NH-37010 /4/2010/PIC dated 15.01.14.

## **8. Invitation of tenders and award of works:**

- 8.1 As the estimated cost of work is more than Rs. 300 crore, procedure as per instructions conveyed vide Ministry's letter no. RW/ NH-24035/4/2008/P&M/PIC-EAP dated 31.03.16 is to be adopted for award of works.
- 8.2 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 Authority's Engineer/CE (NH), MSRDC Department that the amount provided against contingencies is available and the same has not been indirectly utilized by accepting higher tender rates. Authority's Engineer/ENC/CE (NH), MSRDC Department shall also certify that approval of estimates to be charged to contingencies will not cause revision of the sanctioned estimate.
- 8.3 CE(NH) PWD Maharashtra/CE (NH), MSRDC will intimate this Ministry about award of contract/commencement of work immediately as per instructions



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contained in this Ministry's letter no. RW/NH-11060/1/98-(DO-I) dated 05.11.1998.

- 8.4 E procurement must be adhered to while inviting tender for the work.
- 8.5 The tenders for the work shall be invited on EPC mode as per guidelines issued by this Ministry vide circular letter No. RW/NH-24035/4/2008-P & M/PIC dated 21.05.2011 in addition to guidelines issued by this Ministry vide circular Letter No. RW/NH-11024/3/99-US (D-1) DATED 9.3.2000, No. RW/NH-24035/4/2008-P&M dtd. 21.05.2010 and No. NH-12037/67/2010/LWE dated 2.8.2010.
- 8.6 While accepting tenders that the overall cost of estimate at tender rates including contingencies, work charge establishment and agency charges does not exceed by more than 5% of sanctioned cost.
- 8.7 Excess in tender cost is caused only by routine factors such as increase in cost of labour or material.
- 8.8 Excess due to change of scope or enlargement / reduction of work or specifications as already approved in the sanctioned estimate would require prior approval of Ministry.

## 9. General

- 9.1 The provision of Project contingencies and agency charges should be utilized as per Ministry's circular letter no. NH-15017/17(2)/2016-P&M dated 16.06.2016. For any other item, which is not covered in the above circular necessary approval of Ministry (in principle) with the recommendation of Concerned RO should be taken before execution. However, sub-estimate for the same should be got approved from Concerned RO, before execution.
- 9.2 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 Authority's Engineer/CE (NH), PWD Department that the amount provided against contingencies is available and the same has not been indirectly utilized by accepting higher tender rates. Authority's Engineer/ENC/CE (NH), PWD Department shall also certify that approval of estimates to be charged to contingencies will not cause revision of the sanctioned estimate.
- 9.3 Collection of material on the roadside should be so planned that it should commensurate with the physical progress of work and the collected material 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.
- 9.4 No work beyond the scope of the sanctioned estimate leading to increase in the scope of the work or change in specification should be undertaken without obtaining prior written approval of the Ministry. In case, the estimate needs revision due to change in rates/tender rates for any reasons, the revised estimate shall be submitted immediately for Ministry's approval. No expenditure beyond permissible in this connection, this Ministry's letter No. RW/NH/III/Coord/32/84 dated 19.5.84 and NH-11026/2/99-US (DI) dated 29.10.2001 may be referred.



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- 9.5 In order to ensure that there is no slippage in achieving the targets, the progress may be closely monitored by ENC/CE (NH), R86B Departmental quarterly status report be furnished to the Ministry in the prescribed proforma.
- 9.6 During the course of execution, the traffic may be regulated in accordance with guidelines laid down vide Ministry's letter no. NHIII-33 (126)/72 dated 20.03.1973 and letter No.RW/NH-11060/1/1998-D.O.1 dated 07.10.1987. Smooth flow of the traffic may be ensured by providing adequate traffic control devices in accordance with stipulation of IRC: SP: 55:2001 "Guidelines on Safety in construction Zone".
- 9.7 It is observed that simultaneous working at large number of work fronts in long stretches is causing severe inconvenience to traffic during construction. Therefore, it is suggested that fronts may not be operated in more than 3 km length simultaneously, without completing the bituminous surfacing in the stretches where excavation/granular layers are carried out. Suitable provisions in the contract shall be incorporated for proper traffic management.
- 9.8 The display boards on development activities of the work shall be made as per guidelines issued vide Ministry's letter no. RW/NH-33044/ 10/2002-S&R (R) dated 26th May, 2003. The cost of the same will be met out of the provision of contingencies allowed in the estimate.
- 9.9 The work is to be carried out in accordance with the "Hand Book of Quality control for construction of Roads and Runways (Second Revision)-IRC SP:11-1988", observing strict quality control instructions contained in the Ministry's letter No.NH-III/P/I/83 dated 19 April 1984 and permanent records maintained thereof.
- 9.10 The independent quality control tests of all items from any of the accredited laboratories as per IRC: SP:94-2011 shall be carried out from the quality control provision in estimate to ensure the quality of work.
- 9.11 Neither the work nor any item of work shall be split into small parts for awarding the work to a number of contractors. In this regard, instructions issued in this Ministry's letter No. NH-III/P/25/84 dated 4/8/1984 may be referred
- 9.12 Guidelines for Road Safety vide Ministry's letter No. RW/ NH-33072/04/2004-S86R(R) dated 27.04.2012 shall be followed wherever applicable.

#### 10. Cost of work:

- 10.1 The estimate is based on rates of SSR 2017-18. It is presumed that CE (NH), of State PWD while forwarding the proposal has satisfied himself about the adequacy and workability of the rates of various items of work and that rates adopted in the estimate are latest and no revision of the rates has occurred till date.
- 10.2 The lead for the carriage of different materials as proposed in the estimate has been allowed for estimate purpose only. However, while calling tenders the

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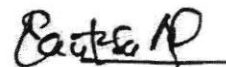
sources may not be indicated. The contractor shall be responsible to procure the material conforming to specification of the work. No provision of extra lead during execution of the work shall be allowed.

10.3 In view of the above comments, the cost of the estimate amounts to Rs. 301.39 Crores including 3% agency charges. The construction period of the project shall be 18 months.

10.4 Following physical and financial targets may be adhered to subject to the availability of funds:

Year	Milestone	Cumulative progress			
		Physical	Financial (Rs. in Crore.)		
			Construction	Maintenance	Total
2017-18	Milestone I	Preliminary	0.05	0	0.05
2018-19	Milestone II	40%	118.50	0	118.50
2019-20	Milestone III	100%	296.25	0	296.25
2020-21	Maintenance	100%	0.00	0.51	296.76
2021-22	Maintenance	100%	0.00	1.54	297.79
2022-23	Maintenance	100%	0.00	3.08	299.33
2023-24	Maintenance	100%	0.00	5.14	301.39

11. The matter as discussed in the SFC meeting held on 16.02.2018 should be strictly followed by State PWD/MSRDC. The Minutes of meeting issued for the SFC meeting vide letter dated 9.3.2018 is enclosed with the Technical Note for ready reference.



(S. K. Arya)  
Executive Engineer (Zone-IV)  
For Director General (RD) & Special Secretary

रजिस्ट्री सं० डी० एल०-33004/99

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# भारत का राजपत्र The Gazette of India

असाधारण

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)

PART II—Section 3—Sub-section (ii)

प्राधिकार से प्रकाशित

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सड़क परिवहन और राजमार्ग मंत्रालय

अधिसूचना

नई दिल्ली, 6 फरवरी, 2018

**का.आ. 541(अ).**—केन्द्रीय सरकार, राष्ट्रीय राजमार्ग अधिनियम, 1956 (1956 का 48) की धारा 2 की उप-धारा (2) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, निम्नलिखित तालिका के स्तम्भ (2) और (3) में विनिर्दिष्ट प्रत्येक राजमार्ग को राष्ट्रीय राजमार्ग घोषित करती है।

उक्त राजमार्गों, जिन्हें अब इस अधिसूचना द्वारा राष्ट्रीय राजमार्ग घोषित किया जाना है, को तालिका के क्रमशः स्तम्भ (1), (2) और (3) में यथा-निर्दिष्ट नई क्रम संख्याओं, नई राष्ट्रीय राजमार्ग संख्याओं तथा राष्ट्रीय राजमार्गों के विवरण के साथ उक्त अधिनियम की अनुसूची में अंतःस्थापित किया गया समझा जाएगा।

तालिका

क्र. सं.	नई राष्ट्रीय राजमार्ग संख्या	राष्ट्रीय राजमार्गों का विवरण
(1)	(2)	(3)
463	160सी	महाराष्ट्र राज्य में राहुरी के निकट रारा-160 के साथ अपने जंक्शन से प्रारंभ होकर और शनि शिंगनापुर के निकट रारा-753 के साथ अपने जंक्शन पर समाप्त होने वाला राजमार्ग।
464	166एच	महाराष्ट्र राज्य में सांगली के निकट रारा-166 के साथ अपने जंक्शन से प्रारंभ होकर और पेठ नाका के निकट रारा-48 के साथ अपने जंक्शन पर समाप्त होने वाला राजमार्ग।
465	761	महाराष्ट्र राज्य में बेल्हे के निकट रारा - 61 के साथ अपने जंक्शन से प्रारंभ होकर अलकुटी, देवीभोयारे, निघोज को जोड़ते हुए और शिरूर के निकट रारा-753एफ के साथ अपने जंक्शन पर समाप्त होने वाला राजमार्ग।

466	753एच	महाराष्ट्र राज्य में सिलोड के निकट रारा-753 एफ के साथ अपने जंक्शन से प्रारंभ होकर भोकरदान, हसनाबाद, राजुर, बावनेपांगरी, जालना, अंबाद को जोड़ते हुए और वाडीगोडरी (वारीगोडरी) के निकट रारा-52 के साथ अपने जंक्शन पर समाप्त होने वाला राजमार्ग।
467	166डी	महाराष्ट्र राज्य में पेन के निकट रारा-66 के साथ अपने जंक्शन से प्रारंभ होकर रनसाई को जोड़ते हुए और माध (महाड अष्टविनायक) के निकट रारा-548ए के साथ अपने जंक्शन पर समाप्त होने वाला राजमार्ग।
467	652	महाराष्ट्र राज्य में तुलजापुर के निकट रारा-52 के साथ अपने जंक्शन से प्रारंभ होकर अंडुर, नालदुर्ग, हन्तुर को जोड़ते हुए और अक्कालकोट के निकट रारा-150 के साथ अपने जंक्शन पर समाप्त होने वाला राजमार्ग।
468	465	महाराष्ट्र राज्य में मोहोल के निकट रारा-65 के साथ अपने जंक्शन से प्रारंभ होकर कुरुल, मांडरूप, बसावानगर, बलसांग को जोड़ते हुए और तंडुलवाडी के निकट रारा-65 के साथ अपने जंक्शन पर समाप्त होने वाला राजमार्ग।
469	647	महाराष्ट्र राज्य में अरवी के निकट रारा-347ए के साथ अपने जंक्शन से प्रारंभ होकर पिंपलकुटा, कानरंगना, अंजी, पवनार को जोड़ते हुए और वर्धा के निकट रारा-347ए के साथ अपने जंक्शन पर समाप्त होने वाला राजमार्ग।
470	461बी	महाराष्ट्र राज्य में हिंगोली के निकट रारा-161 के साथ अपने जंक्शन से प्रारंभ होकर नामदेव, नरसी, सेनगांव, सखरा, रिसोड को जोड़ते हुए और मालेगांव के निकट रारा-161 के साथ अपने जंक्शन पर समाप्त होने वाला राजमार्ग।
471	160एच	महाराष्ट्र राज्य में मालेगांव के निकट रारा-60 के साथ अपने जंक्शन से प्रारंभ होकर चौगांव, कुसुंबे, मेहरगांव, ख्वाति, लमखानी, शेवाडे, दोंडैचा, सारंगखेडा, सवालडे को जोड़ते हुए और सहाडा के निकट रारा-752जी के साथ अपने जंक्शन पर समाप्त होने वाला राजमार्ग।
472	361एफ	महाराष्ट्र राज्य में लोहा के निकट रारा-361 के साथ अपने जंक्शन से प्रारंभ होकर पालम, गंगाखेड, परली वैजनाथ, तेलगांव, वडवानी, बीड, अरवी को जोड़ते हुए और खरवंडी पर समाप्त होने वाला राजमार्ग।
472	965डीडी	महाराष्ट्र राज्य में लोनाड के निकट रारा-965डी के साथ अपने जंक्शन से प्रारंभ होकर अंडोरी, शिरवाल, भोर, आप्ती, महाड, मंदनगढ़ को जोड़ते हुए और पचारल पर समाप्त होने वाला राजमार्ग। (बाबा साहेब अंबेडकर के जन्म स्थान के संपर्क सहित)
473	166एफ	महाराष्ट्र राज्य में महाड के निकट रारा-66 के साथ अपने जंक्शन से प्रारंभ होकर और रायगढ़ फोर्ट पर समाप्त होने वाला राजमार्ग।
477	166जी	महाराष्ट्र राज्य में तालेरे (तालेरा) के निकट रारा-66 के साथ अपने जंक्शन से प्रारंभ होकर वैभववाडी, गगनबवाडा (बावडा) को जोड़ते हुए और कोल्हापुर के निकट रारा - 48 के साथ अपने जंक्शन पर समाप्त होने वाला राजमार्ग।
478	548डीडी	महाराष्ट्र राज्य में वडगांव के निकट रारा-48 के साथ अपने जंक्शन से प्रारंभ होकर कटराज, कोंडवा, उंडरी (मंतरवाडी चौक), वडकी, लोनी-कालभोर, थिउरफाटा, केसानंद को जोड़ते हुए और लोनीकांड के निकट रारा-753एफ के साथ अपने जंक्शन पर समाप्त होने वाला राजमार्ग।

[फा. सं. एनएच-14012/13/2017-पी एंड एम (पार्ट)]

राजेश गुप्ता, उप सचिव

पाद टिप्पण : राष्ट्रीय राजमार्ग अधिनियम, 1956 (1956 का 48) की अनुसूची, भारत के राजपत्र, दिनांकित 4 अप्रैल, 2011 में प्रकाशित अधिसूचना संख्या का.आ. 689(अ), दिनांकित 4 अप्रैल, 2011 द्वारा प्रतिस्थापित की गई थी और बाद में संशोधन अधिसूचना सं. का.आ. 88(अ), दिनांकित 04.01.2018 द्वारा किया गया था।

## MINISTRY OF ROAD TRANSPORT AND HIGHWAYS

## NOTIFICATION

New Delhi, the 6th February, 2018

**S.O. 541(E).**—In exercise of the powers conferred by sub-section (2) of section 2 of the National Highways Act, 1956 (48 of 1956), the Central Government hereby declares each of the highways specified in columns (2) and (3) of the Table below to be a national highway.

The said highways, now declared to be national highways, shall be deemed to be specified in the Schedule to the said Act with the new serial numbers, the new national highways numbers and the description of the national highways thereof, as indicated in columns (1), (2) and (3) respectively, of the said Table.

Sl. No.	New National Highway No.	Description of National Highways
(1)	(2)	(3)
463	160C	The Highway starting from its junction with NH-160 near Rahuri and terminating at its junction with NH-753 near Shani Shinganapur in the state of Maharashtra.
464	166H	The Highway starting from its junction with NH-166 near Sangli and terminating at its junction with NH- 48 near Peth Naka in the state of Maharashtra.
465	761	The Highway starting from its junction with NH-61 near Belhe and Connecting Alkuti, Devibhoyare, Nighoj and terminating at its junction with NH-753F near Shirur in the state of Maharashtra.
466	753H	The Highway starting from its junction with NH-753F near Sillod and connecting to Bhokardan, Hasnabad, Rajur, Bawnepanagri, Jalna, Ambad and terminating at its junction with NH-52 near Wadigodri (Warigodri) in the state of Maharashtra.
467	166D	The Highway starting from its junction with NH-66 near Pen and connecting to Ransai and terminating at its junction with NH-548A near Madh (Mahad Ashtvinayak) in the state of Maharashtra.
467	652	The Highway starting from its junction with NH-52 near Tuljapur connecting to Andur, Naldurg, Hannur and terminating at its junction with NH-150 near Akkalkot in the state of Maharashtra.
468	465	The Highway starting from its junction with NH-65 near Mohol connecting Kurul, Mandrup, Basavanagar, Walsang and terminating at its junction with NH-65 near Tandulwadi in the state of Maharashtra.
469	647	The Highway starting from its junction with NH-347A near Arvi connecting to Pimpalkuta, Kanrangna, Anji, Pavnar and terminating at its junction with NH-347A near Wardha in the state of Maharashtra.
470	461B	The Highway starting from its junction with NH-161 near Hingoli connecting Namdeo, Narsi, Sengaon, Sakhara, Risod and terminating at its junction with NH-161 near Malegaon in the state of Maharashtra.
471	160H	The Highway starting from its junction with NH-60 near Malegaon connecting to Chaugaoon, Kusumbe, Mehargaon, Khwathi, Lamkhani, Shewade, Dondaicha, Sarangkhed, Sawalde and terminating at its junction with NH-752G near Shahada in the state of Maharashtra.
472	361F	The Highway starting from its junction with NH-361 near Loha connecting Palam, Gangakhed, Parli Vajinath, Telgaon, Wadvani, Beed, Arvi and terminating at Kharwandi in the state of Maharashtra.
472	965DD	The highway starting from its junction with NH-965D near Lonand and connecting Andori, Shirwal, Bhor, Apti, Mahad, Mandangarh and terminating at Pacharal in the state of Maharashtra. (with connection to birth place of Baba Saheb Ambedkar)
473	166F	The Highway starting from its junction with NH-66 near Mahad and terminating at



Sl. No.	New National Highway No.	Description of National Highways
(1)	(2)	(3)
		Raigad Fort in the state of Maharashtra.
477	166G	The Highway starting from its junction with NH-66 near Talere (Talera) connecting Vaibhavawadi, Gaganbawada (Bavda) and terminating at its junction with NH-48 near Kolhapur in the state of Maharashtra.
478	548DD	The Highway starting from its junction with NH-48 near Vadgaon connecting to Katraj, Kondwa, Undri, (Mantarwadi Chowk), Vadki, Loni-Kalbhor, Theurphata, Kesanand and terminating at junction of NH-753F near Lonikand in the State of Maharashtra.

[F. No. NH-14012/13/2017-P&amp;M(pt)]

RAJESH GUPTA, Dy. Secy.

**Footnote :** The Schedule to the National Highways Act, 1956 (48 of 1956) was substituted *vide* notification number S.O. 689(E), dated 4<sup>th</sup> April, 2011 published in the Gazette of India, dated the 4<sup>th</sup> April, 2011 and subsequently amended *vide* notifications number S.O. 88(E), dated 04.01.2018.

## अधिसूचना

नई दिल्ली, 6 फरवरी, 2018

**का.आ. 542(अ).—**केन्द्रीय सरकार, राष्ट्रीय राजमार्ग अधिनियम, 1956 (1956 का 48) की धारा 2 की उप-धारा (2) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, भारत सरकार के सड़क परिवहन और राजमार्ग मंत्रालय की भारत के राजपत्र, असाधारण, भाग-II, खंड-3, उप-खंड (ii) में प्रकाशित अधिसूचना सं. का.आ. 689(अ), दिनांकित 4 अप्रैल, 2011 में एतद्वारा और निम्नलिखित संशोधन करती है, नामतः-

उक्त अनुसूची में, क्रम सं. 365 और 443 तथा उससे संबंधित प्रविष्टियों के स्थान पर निम्नलिखित प्रतिस्थापित किया जाएगा, नामतः-

## तालिका

क्र. सं.	नई रारा सं.	राष्ट्रीय राजमार्ग का विवरण
(1)	(2)	(3)
365	161जी	महाराष्ट्र राज्य में पातुर के निकट रारा-161 के साथ अपने जंक्शन से प्रारंभ होकर बालापुर, शेगांव, संग्रामपुर, जलगांव जमोद को जोड़ते हुए और मध्य प्रदेश राज्य में खकनार के निकट रारा-930 के साथ अपने जंक्शन पर समाप्त होने वाला राजमार्ग।
443	160ए	महाराष्ट्र राज्य में सिन्नर के निकट रारा-60 के साथ अपने जंक्शन से प्रारंभ होकर पांडुरली, धमनगांव, खंबाले, त्रिंबकेश्वर, मोखाडा, जवहार, विक्रमगढ़, रारा-48 के निकट मनोर को जोड़ते हुए और पालघर पर समाप्त होने वाला राजमार्ग।

[फा. सं. एनएच-14012/13/2017-पी एंड एम (पार्ट)]

राजेश गुप्ता, उप सचिव

**पाद टिप्पण :** राष्ट्रीय राजमार्ग अधिनियम, 1956 (1956 का 48) की अनुसूची, भारत के राजपत्र, दिनांकित 4 अप्रैल, 2011 में प्रकाशित अधिसूचना संख्या का.आ. 689(अ), दिनांकित 4 अप्रैल, 2011 द्वारा प्रतिस्थापित की गई थी और बाद में संशोधन अधिसूचना सं. का.आ. 88(अ), दिनांकित 04.01.2018 द्वारा किया गया था।



## NOTIFICATION

New Delhi, the 6th February, 2018

**S.O. 542(E).**—In exercise of the powers conferred by sub-section (2) of section 2 of the National Highways Act, 1956 (48 of 1956), the Central Government hereby makes the following further amendment in the notification of the Government of India, in the Ministry of Road Transport and Highways published in Gazette of India, Extraordinary, Part II, Section 3, Sub-section (ii) *vide* number S.O. 689(E) dated the 4<sup>th</sup> April, 2011, namely:-

In the Schedule, for serial number 365 and 443 and entries relating thereto, the following shall be substituted namely:-

TABLE

Sl. No.	New National Highway No.	Description of National Highways
(1)	(2)	(3)
365	161G	The highway starting from its junction with NH-161 near Patur connecting Balapur, Shegaon, Sangrampur, Jalgaon Jamod in the state of Maharashtra and terminating at its junction with NH-930 near Khaknar in the state of Madhya Pradesh
443	160A	The Highway starting from its junction with NH-60 near Sinner connecting Pandurli, Dhamangaon, Khambale, Trimbakeshwar, Mokhada, Jawhar, Vikramgad, Manor near NH-48 and terminating at Palghar in the state of Maharashtra.

[F. No. NH-14012/13/2017-P&amp;M(Pt)]

RAJESH GUPTA, Dy. Secy.

**Footnote :** The Schedule to the National Highways Act, 1956 (48 of 1956) was substituted *vide* notification number S.O. 689(E), dated 4<sup>th</sup> April, 2011 published in the Gazette of India, dated the 4<sup>th</sup> April, 2011 and subsequently amended *vide* notifications number S.O. 88(E), dated 04.01.2018.

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# भारत का राजपत्र The Gazette of India

असाधारण

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सड़क परिवहन और राजमार्ग मंत्रालय

अधिसूचना

नई दिल्ली, 6 नवम्बर, 2019

**का.आ. 4006(अ).**—केन्द्रीय सरकार, राष्ट्रीय राजमार्ग अधिनियम, 1956 (1956 का 48) की धारा 5 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए एतद्वारा निदेश देती है कि इसके साथ संलग्न तालिका के कॉलम (2) में वर्णित प्रत्येक राष्ट्रीय राजमार्ग से संबंधित कार्यों का निष्पादन करने के संबंध में प्रत्येक राष्ट्रीय राजमार्ग के सामने तालिका के कॉलम (3) में विनिर्धारित कार्य इस शर्त के अधीन राज्य सरकार द्वारा पूरे किए जाएंगे कि संबंधित राज्य सरकार उक्त अधिनियम के अधीन वर्तमान में लागू नियमों का अनुपालन करने के लिए ऐसे कार्यों को करने के लिए बाध्य होंगी और उस प्रयोजनार्थ भारत सरकार के तत्कालीन पोत परिवहन, सड़क परिवहन और राजमार्ग मंत्रालय (सड़क परिवहन और राजमार्ग विभाग) की अधिसूचना सं. का.आ. 1096 (अ), दिनांकित 4 अगस्त, 2005 में एतद्वारा निम्नलिखित और संशोधन करती है, अर्थात्:-

उक्त अधिसूचना की अनुसूची में, क्रम सं. 14 के लिए तथा उससे संबंधित प्रविष्टियों के स्थान पर निम्नलिखित प्रविष्टियां प्रतिस्थापित की जाएंगी, अर्थात्:-

तालिका

(1)	(2)	(3)
"14	राष्ट्रीय राजमार्ग सं. - 48 [गुजरात सीमा से मुंबरा (पनवेल) और पुणे से कर्नाटक सीमा खंड को छोड़कर], सं. 50, सं. 52 [महाराष्ट्र / कर्नाटक सीमा - हलूर और शोलापुर - धुले खंड को छोड़कर], सं. 53 [गुजरात सीमा - वैरायटी स्क्वायर (नागपुर सिटी) और बाडी नाका (नागपुर सिटी) से महा./छत्तीसगढ़ सीमा को छोड़कर], सं. 60 [म. प्र. /महा. सीमा - नासिक और सिन्नर - खेड खंड को छोड़कर], सं. 61 [कल्याण - अहमदनगर बाइपास के आरंभ तक किमी 9/300 से किमी 211/00 और खारवंडी कसार से रारा-211 (नया रारा-52) का जंक्शन के साथ किमी 284/00 से किमी 337/000 तक खंड को छोड़कर], सं. 63, सं. 65 [किमी 0/00 से किमी 8/800 और किमी 40/0 - किमी 340/200 तक खंड को छोड़कर], सं. 66 [पनवेल - इंदोपुर खंड और किमी 0/00 से किमी 84/00 तक को छोड़कर], सं. 160 [सिन्नर से अहमदनगर और वासुंदे फाटा से चिखोडी - रारा - 48 के साथ जंक्शन को छोड़कर], सं. 247, सं. 266, सं. 465, सं. 543, सं. 561, सं. 647, सं. 652, सं. 753, सं. 761, सं. 848 [थाणे - नासिक खंड को छोड़कर], सं. 930	महाराष्ट्र राज्य सरकार"

<p>[वारोरा - वानी खंड को छोड़कर], सं. 953, सं. 361एफ, सं. 130डी, सं. 150बि. [शोलापुर - अक्कलकोट खंड को छोड़कर], सं. 160ए, सं. 160सी, सं. 160एच, सं. 161ए, सं. 161ई, सं. 161जी, सं. 161एच, सं. 166डी, सं. 166ई, सं. 166एफ, सं. 166जी, सं. 347ए [महाराष्ट्र राज्य सरकार की बीओटी परियोजना के तहत जाम से वारोरा खंड को छोड़कर], सं. 353बी [तेलंगाना/महाराष्ट्र सीमा राजुरा खंड किमी 32/500 से किमी 89/329 तक को छोड़कर], सं. 353सी, सं. 353डी [नागपुर - उमरेद खंड को छोड़कर], सं. 353ई, सं. 353आई, सं. 353जे [नागपुर - कटोल खंड को छोड़कर], सं. 353के, सं. 361बी, सं. 361सी, सं. 361एफ, सं. 361एच, सं. 461बी, सं. 547ई [गोंडखैरी - सावनेर खंड को छोड़कर], सं. 548ए, सं. 548बी, सं. 548सी [महाराष्ट्र राज्य सरकार की बीओटी परियोजना के तहत तेंभुरनी - कुरुदवाडी - बारशी खंड को छोड़कर], सं. 548सीसी, सं. 548डी [महाराष्ट्र राज्य सरकार की बीओटी परियोजना के तहत तालेगांव दभाडे, चाकन, शिकरापुर, न्हावरा खंड किमी 0/00 से किमी 83/551 तक को छोड़कर], सं. 548डीडी सं. 548ई, सं. 561ए [महाराष्ट्र राज्य सरकार की बीओटी परियोजना के तहत अहमदनगर, करमाला, तेंभुरनी तक को छोड़कर], सं. 752ई, सं. 752जी [महाराष्ट्र राज्य सरकार की बीओटी परियोजना के तहत पिंपलनेर - सताना, देवला, चांदवाड, मनमाड, येवला, कोपरगांव से शिरडी के निकट रारा-160 के जंक्शन के साथ तक को छोड़कर], सं. 752एच, सं. 752आई [महाराष्ट्र राज्य सरकार की बीओटी परियोजना के तहत कोपरगांव - औरंगाबाद खंड किमी 0/00 से किमी 88/100 और औरंगाबाद, जायना, वातुर खंड को भी छोड़कर], सं. 752के, सं. 753ए, सं. 753बी, सं. 753ई, सं. 753एफ [महाराष्ट्र राज्य सरकार की बीओटी परियोजना के तहत औरंगाबाद, नेवासा, घोडेगांव, अहमदनगर, शिरूर, रंजनगांव, शिकरापुर, पुणे खंड को छोड़कर], सं. 753एच, सं. 753जे [महाराष्ट्र राज्य सरकार की बीओटी परियोजना के तहत नंदगांव, हिसवाल से मनमाड खंड को छोड़कर], सं. 753एल, सं. 753एम, सं. 848ए, सं. 930डी [महाराष्ट्र राज्य सरकार की बीओटी परियोजना के तहत रारा-353बी के साथ अपने जंक्शन से महाराष्ट्र / तेलंगाना सीमा किमी 19/0 से किमी 50/808 और बीसापुर, बल्लारपुर से बामनी को जोड़ने वाला चंद्रपुर खंड को भी छोड़कर], सं. 965सी, सं. 965डीडी [लोणंद से बारंदा (पुणे / रायगढ़ जिला सीमा खंड) तक को छोड़कर], सं. 965जी [पटास - वेलापुर खंड किमी 0/00 से किमी 137/48 तक को छोड़कर] तक के उतने भाग जो महाराष्ट्र राज्य में अवस्थित है।</p>	
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[फा. सं. एनएच-14013/6/2019-पीएंडएम]

राजेश गुप्ता, उप सचिव

**टिप्पण :** मूल अधिसूचना को सं. का.आ. 1096 (अ), दिनांकित 4 अगस्त, 2005 द्वारा प्रकाशित किया गया था और उसे पिछली बार सं. का.आ. 3961(अ), दिनांकित 31 अक्टूबर, 2019 द्वारा संशोधित किया गया था।

## MINISTRY OF ROAD TRANSPORT AND HIGHWAYS

### NOTIFICATION

New Delhi, the 6th November, 2019

**S.O. 4006(E).**—In exercise of the powers conferred by section 5 of the National Highways Act, 1956 (48 of 1956), the Central Government hereby directs that the functions in relation to the execution of works pertaining to each of the National Highways described in column (2) of the Table hereto annexed shall be exercisable by the State Government specified in column (3) of the Table against each highway subject to the condition that the State Government concerned shall in the exercise of such functions be bound to comply with the rules for the time being in force under the said Act and for that purpose makes the following further amendments in the notification of the Government of India in the erstwhile Ministry of Shipping, Road Transport and Highways (Department of Road Transport and Highways) number S.O 1096(E), dated the 4<sup>th</sup> August, 2005, namely:—

In the said notification, in the Schedule, for serial number 14 and the entries relating thereto, the following shall be substituted, namely:—

TABLE

(1)	(2)	(3)
"14"	<p>So much of National Highways No. NH-48 [excluding Gujarat border to Mumbai (Panvel) &amp; Pune to Karnataka border section]; No. 50; No.52 [excluding Maharashtra / Karnataka border - Hattur and Solapur - Dhule section]; No. 53 [excluding Gujarat border- Variety square (Nagpur city) &amp; Wadi Naka (Nagpur city) to MAH/Chhattisgarh border]; No. 60 [excluding MP/MAH Border-Nashik &amp; Sinnar - Khed section]; No. 61[excluding Kalyan - Start of Ahmednagar bypass section from km 9/300 to km 211/00 &amp; excluding Kharwandi Kasar to junction with NH-211 (New NH-52) section from km 284/00 to km 337/00]; No. 63; No. 65 [excluding section from Km 0/00 to km 8/800 &amp; km 40/0 - km 340/200]; No. 66[excluding Panvel - Indapur section from km 0/00 to km 84/00]; No. 160 [excluding Sinnar to Ahmednagar &amp; Vasunde phata to Chikhodi - junction with NH-48]; No. 247; No. 266; No. 465, No. 543, No. 561, No. 647, No. 652, No. 753, No. 761, No. 848 [excluding Thane - Nashik section], No. 930 [excluding Warora - Wani section]; No. 953; No. 361F; No. 130D; No. 150 Ext [excluding Solapur - Akkalkot section]; No. 160A; No. 160C; No. 160H; No. 161A; No. 161E; No. 161G; No. 161H; No. 166D; No. 166E; No. 166F; No. 166G; No. 166H; No. 347A [excluding Jam to Warora section under BOT project of State Govt. of Maharashtra]; No. 353B [excluding Telangana / Maharashtra border to Rajura section from km 32/500 to km 89/329]; No. 353C; No. 353D [excluding Nagpur-Umred section]; No. 353E; No. 353I; No. 353J [excluding Nagpur - Katol section]; No. 353K; No. 361B; No. 361C; No. 361F; No. 361H; No. 461B; No. 547E [excluding Gondkhairi - Saoner section]; No. 548A; No. 548B; No. 548C [excluding Tembhurni -Kurudwadi - Barshi section under BOT project of State Govt. of Maharashtra]; No. 548CC; No. 548D [excluding Talegaon Dabhade, Chakan, Shikrapur, Nhavra section from km 0/00 to km 83/551 under BOT project of State Govt. of Maharashtra]; No. 548DD [excluding Katraj-Lonikand]; No. 548E; No. 561A [excluding Ahmednagar, Karmala, Tembhurni section under BOT project of State Govt. of Maharashtra]; No. 752E; No. 752G [excluding Pimpalner - Satana, Deola, Chandvad, Manmad, Yeola, Kopargaon to junction with NH-160 near Shirdi section under BOT project of State Govt. of Maharashtra]; No. 752H; No. 752I [excluding Kopargaon - Aurangabad section from km 0/00 to km 88/100 &amp; also excluding Aurangabad, Jalna, Watur section under BOT project of State Govt. of Maharashtra]; No. 752K; No. 753A; No. 753B; No. 753E; No. 753F [excluding Aurangabad, Newasa, Ghodegaon, Ahmendnagar, Shirur, Ranjangaon, Shikrapur, Pune section under BOT project of State Govt. of Maharashtra]; No. 753H; No. 753J [excluding Nandgaon, Hishaval to Manmad section under BOT project of State Govt. of Maharashtra]; No. 753L; No. 753M; No. 848A; No. 930D [excluding junction with NH-353B to Maharashtra/Telangana border from km 19/0 to km 50/808 &amp; also excluding Chandrapur connecting Visapur, Ballarpur to Bamni section under BOT project of State Govt. of Maharashtra]; No. 965C; No. 965DD [excluding Lonand to Varanda (Pune/Raigad district border section)]; No. 965G [excluding Patas - Velapur section from km 0/00 to km 137/48] as are situated within the State of Maharashtra.</p>	State Government of Maharashtra".

[F. No. NH-14013/6/2019-P&amp;M]

RAJESH GUPTA, Dy. Secy.

**Note :** The principal notification was published vide number S.O.1096 (E), dated the 4<sup>th</sup> August, 2005 and was last amended vide number S.O. 3961(E), dated the 31st October, 2019.





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No 12014/150/2017-MAH  
Government of India  
Ministry of Road Transport & Highways  
(Zone-4)  
Transport Bhawan, 1, Parliament Street, New Delhi - 110001

Dated: 20<sup>th</sup> March, 2018

To  
The Secretary to the Govt. of Maharashtra  
Public Works Department,  
Government of Maharashtra,  
Mumbai-400032

Sub:- Upgradation to 2 lane with paved shoulder standards of Highway Starting at NH-66 (17) near Pen connecting to Ransai and terminating at its junction with NH-548A near Madh (Mahad Ashtvinyak), NH-166D approximate length of 33.328 km in the state of Maharashtra on EPC mode.

(Job No. NH-166D-MAH-2017-18- 1211)

Sir,

I am directed to refer to Chief Engineer (NH), Maharashtra letter No. CE(NH)/P-1/2847/2017 Dated 16/11/2017 forwarding an estimate amounting to Rs. 317.15 crore for the above noted work and to say that the estimate has been examined in the Ministry and modified for Rs. 301.39 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. 301.39 crore (Rupees Three hundred one crore and thirty nine lakh only).

3. The work has been assigned Job No. NH-166D-MAH-2017-18-1211. 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) LOA will be issued only after the issue of entrustment notification u/s 5 of NH Act, 1956.
- (iii) 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.

- (iv) 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.
- (v) 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.
- (vi) 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. 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
7. The Regional Officer, M/o RT&H, Mumbai will be Drawing and Disbursing Officer.
8. The following physical and financial target shall be strictly adhered to. Phasing of expenditure shall be as given below:-

Year	Milestone	Cumulative progress			
		Physical	Financial (Rs. in Crore.)		
			Construction	Maintenance	Total
			0.05	0	0.05
2017-18	Milestone I	Preliminary	118.50	0	118.50
2018-19	Milestone II	40%	296.25	0	296.25
2019-20	Milestone III	100%	0.00	0.51	296.76
2020-21	Maintenance	100%	0.00	1.54	297.79
2021-22	Maintenance	100%	0.00	3.08	299.33
2022-23	Maintenance	100%	0.00	5.14	301.39
2023-24	Maintenance	100%			

  
20/3/2018

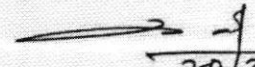


No. 12014/150/2017-MAH

9. This sanction issues with the concurrence of the Finance Wing vide U.O. No. 2825/TF-II/2017 dated 13.02.2018.

Encl. As stated.

Yours faithfully,


  
20/2/2018

(Ram Raj Meena)

Under Secretary to the Government of India

Copy to:

1. The Chief Secretary to the Govt. of Maharashtra, Mumbai-400032.
2. The Chief Engineer, National Highways, Room No-527, Konkan Bhawan, Navi Mumbai-400614. / C.E. MSRDC
3. The Regional Officer(Mumbai), Office of Regional Officer, M/o RT&H Maharashtra & Goa, Room No. 508-509, 5<sup>th</sup> Floor, Konkan Bhawan, CBD Belapur, 5<sup>th</sup> Floor, Navi Mumbai-400614
4. The Principal Director of Audit, Economics and Services Ministries, AGCR Building, IP Estate, New Delhi
5. PF-I Division, Ministry of Finance, North Block, New Delhi.
6. The Secretary, Deptt. Of Finance, Govt. of Maharashtra, Sachivalaya, Mumbai-400032.
7. The RPAO, M/o RTH, 3<sup>rd</sup> Floor, Cavasji Patel Street, Mehar House, Mumbai.
8. The Pay & Accounts Officer, Ministry of Road Transport & Highways(RW), IDA, Building, Jamnagar House, Shahjahan Road, New Delhi.

  
(Ram Raj Meena)

Under Secretary to the Government of India

Copy also to: -

1. P.S. to Minister (RT&H).
2. CE( Zone-4)/W & A Section/ Guard file

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

Dated: March, 2018

TECHNICAL NOTE

1.	Name of work	:	Upgradation to 2 lane with paved shoulder standards of Highway Starting at NH-66 (17) near Pen connecting to Ransai and terminating at its junction with NH-548A near Madh (MahadAshtvinyak), NH-166D approximate length of 33.328 km in the state of Maharashtra on EPC mode.	
2.	NH No	:	166 D	
3.	State and Division	:	Maharashtra & National Highway Division, Pen.	
4.	Estimated cost (Rs. in Cr.)	:	As submitted by State PWD 317.15	As modified by Ministry 301.39
5.	Length in km	:	33.328	33.328
6.	Cost / km (Amount in Rs. Crore)	:	9.51	9.04
7.	Reference	:	Letter No. CE (NH)/P-1/2847/2017 dated: 16/11/2017 from CE (NH), PWD, Navi Mumbai, and Government of Maharashtra.	

COMMENTS

1. Scope of work:

Upgradation to 2 lane with paved shoulder standards of Highway Starting at NH-66 (17) near Pen connecting to Ransai and terminating at its junction with NH-548A near Madh (MahadAshtvinyak), NH-166D approximate length of 33.328 km in the state of Maharashtra on EPC mode.

2. Provisions allowed in the estimate:

The State PWD has submitted the cost estimate for the instant work amounting to Rs. 317.15 Cr which has been modified to Rs. 301.39 Cr. The provisions allowed in the estimate are as per Schedule B & C of the tender documents. The cost estimate is as below:

Sr.no	Items	Total Amount ( Rs.)	% Weightage w.r.t Total Civil Cost
1	2	3	4
A	<b>Widening and strengthening of existing road</b>		
1	Site Clearance including dismantling	1.64	0.80
2	Earthwork	24.77	12.04
3	Granular work (sub-base, base, shoulders)	15.63	7.60
4	Bituminous work		
	(a) BC	0.98	0.48
	(b) DBM	2.85	1.38
	<b>Total Bituminous Work</b>	<b>3.83</b>	<b>1.86</b>
5	Cement Concrete pavement work		
	(a) PQC	65.22	31.70
	(b) DLC	18.28	8.88
	<b>Total CC Work</b>	<b>83.50</b>	<b>40.59</b>
6	Micro-surfacing	14.97	7.27
	<b>sub total A</b>	<b>144.34</b>	<b>70.16</b>
B	<b>Major Bridge Works and ROB / RUB</b>		
1	Widening and repairs of major bridges	0.99	0.48
2	Widening and repair of ROB / RUB	-	-
3	New major bridges	11.75	5.71
4	New rail-road bridges		
5	Reinforced earth wall/ protection work		
	<b>sub total B</b>	<b>12.73</b>	<b>6.19</b>
C	<b>Culverts, minor bridges, underpasses, overpasses on existing road, realignments and bypasses:</b>		
1	Culverts	10.40	5.06
2	Minor bridges	12.23	5.94
3	Cattle / Pedestrian underpass	-	-
4	Pedestrian overpass	-	-
5	Grade Separated structures	-	-
6	Light Vehicular Underpass (LVUP)	9.31	4.53
7	Overpass	-	-
	<b>sub total C</b>	<b>31.94</b>	<b>15.53</b>
D	<b>OTHER WORKS</b>		
1	Toll Plaza	3.14	1.53
2	Protection works	8.98	4.36
3	Crash Barrier	0.34	0.16
4	Road signs, markings, km stones, Boundary stones, utility ducts etc.	2.01	0.98
5	Bus bays and Bus Shelter	1.42	0.69

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6	Truck lay bye	0.83	0.40
7	Others (Construction of wire fencing and Footpath)	0.00	-
8	Rest Area	0.00	-
9	Paved shoulders of paving blocks	0.00	-
	<b>sub total D</b>	<b>16.72</b>	<b>8.13</b>
	<b>Grant Total (A+B+C+D)</b>	<b>205.73</b>	<b>100.00</b>
1	<b>Per Km Civil Cost</b>	<b>6.17</b>	
2	CIVIL COST (A) =	205.73	
3	Contingency 2.8%	5.76	
4	Total Civil Construction cost (B)	211.49	
5	Agency Charges 3% on B	-	
6	Quality Control on B	-	
7	Road Safety on B	-	
8	Supervision 3% on B	6.48	
9	5% Price escalation on A as per phasing during construction period	10.29	
10	2.5% Maintenance of A	5.14	
11	<b>Centages( C)</b>	<b>21.77</b>	
12	<b>Total project cost (B+C)</b>	<b>233.39</b>	
13	<b>Per km Project cost</b>	<b>7.00</b>	
14	Pre-construction Costs	-	
15	Shifting of electrical poles, transformers etc.	15.00	
16	Shifting water supply lines	3.00	
17	Land Acquisition	50.00	
	<b>Total Capital cost of the project</b>	<b>301.39</b>	

### 3. Utility Shifting:

3.1 As there is Electricity poles are at some places and water supply line at few point found in between ROW, a provision of Rs. 15.00 Crore is considered in estimate for shifting of these utilities. Implementing agency should ensured that the utility shifting estimates do not include provisions for augmentation of existing facility, and the administrative charges payable to the Utility entities shall be restricted to 2.5%.

3.2 The cost of utility shifting shall only include replacement and shifting of existing utility lines. No augmentation of existing utility lines shall be taken up at MoRTHcost. Cost of any other augmentation shall be borne by the State Government utility. The utility lines should be shifted to extreme edge of the RoW. The cost being paid for shifting of utilities shall be considered as a one-time, expenditure. Any further shifting of utilities if required for widening of the road on a future date shall be at the cost of the State Government Utility. The State Government shall take expeditious action for approval of estimates for shifting of utilities and consequent shifting.

### 4. Land Acquisition:

4.1 State PWD has confirmed that 86 % of total land required for project implementation is in possession of Department and status of remaining land acquisition is as under:



Total Land to be acquired = 7.90 Ha,

Accordingly a provision of Rs. 50.00 crore has been made for acquisition of land. CE (NH), PWD may ensure that remaining land should be available by the time the work is awarded.

- 4.2 Land Acquisition for the project may be done by private negotiation only if the amount of compensation payable is no more than the compensation amount payable as per RFCTLARR Act. The administrative charges payable for land acquisition should be no more than 2.5% of the compensation amount.
- 4.3 LA for project facilities like toll plaza, rest areas etc - Provision of project facilities like toll plaza, rest areas, truck lay-byes, parking bays etc should be as far as possible made in Government land or available NH RoW. Acquisition of additional land for these purposes should be minimal.

5. Design specifications including deviations, if any:

5.1 All material, design and construction operations for the project are proposed conforming to the IRC: SP: 73-2015, Manual of Specifications and Standards for Two-laning of Highways, IRC-58-2011 and Ministry standard specification Revision-V 2013.

5.2 Paver blocks are generally costly options for providing in spaces between main carriageway and drain or urban areas. Alternative economical solutions may be explored for such provisions.

6. Specifications

- 6.1 Traffic management during construction:-Traffic management should be done as per clause 112 of Ministry's specification, during the construction period it may be insured that the traffic is regulated in conformity to Ministry's guidelines stipulated in clause No.8.2.3 'Manual for construction and supervision of bituminous work.'.
- 6.2 The nomenclature and clause numbers of the items shall be specified as per MORTH specification for Road and Bridge work 2013 (5th revision) and all the works shall be executed strictly as per Ministry's specifications/ Ministry's circular/ guidelines issued from time to time.
- 6.3 Lighting provision in estimates: Wherever, electrical/ lighting installations in urban areas have been provisioned in the project, it should be only one time capital cost and the running and maintenance expenses of such facilities are to be borne by the State Govt/ Municipal bodies. Hence, these facilities should be handed over to them through MOU etc after completion.
- 6.4 Tolling of all improved road sections must be carried out after completion. Hence, Provision should be made for tolling of all projects either through Toll Plaza in the section or through adjacent project section. The arrangement for

tolling of the project section should be brought out in project proposal. The minimum number of lanes at any Toll Plaza shall be 1:4 on each side i.e. 8 lanes for a two-lane project and the last lane of toll plaza for both ways may be designated for local vehicles and Oversized vehicles.

- 6.5 Location of toll plaza should preferably be 10 km away from municipal limits and also 50-60 km away from another toll plaza in the same NH section as per Toll rules. Wherever, toll plaza locations did not conform to the NH fee rules, relaxation of the Competent Authority should be sought explicitly for the same in the project proposal, giving justification for the same.

## 7. Contract Documents:

- 7.1 Single stage two-cover bidding is to be adopted as per instructions conveyed vide Ministry's letter no. RW / NH-37010 /4 /2010 / PIC dated 27.05.14 and other amendment issued till date.
- 7.2 RFP and draft contract documents may be adopted as per the draft Model RFP and EPC documents \ approved by the Ministry after making project specific changes as well as amendments circulated by Ministry vide circular No. RWINH-3701 0/4/201 O/PIC-EAP(Printing) dated 05.10.2015.
- 7.3 Construction period for this work shall not be more than 18 months including the rainy period. Defects liability period and maintenance period shall be 4 years as specified in the amendments to Model EPC Document issued vide Ministry's letter no. RW/NH-37010 /4/2010/PIC dated 15.01.14.

## 8. Invitation of tenders and award of works:

- 8.1 As the estimated cost of work is more than Rs. 300 crore, procedure as per instructions conveyed vide Ministry's letter no. RW/ NH-24035/4/2008/P&M/PIC-EAP dated 31.03.16 is to be adopted for award of works.
- 8.2 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 Authority's Engineer/CE (NH), MSRDC Department that the amount provided against contingencies is available and the same has not been indirectly utilized by accepting higher tender rates. Authority's Engineer/ENC/CE (NH), MSRDC Department shall also certify that approval of estimates to be charged to contingencies will not cause revision of the sanctioned estimate.
- 8.3 CE(NH) PWD Maharashtra/CE (NH), MSRDC will intimate this Ministry about award of contract/commencement of work immediately as per instructions

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contained in this Ministry's letter no. RW/NH-11060/1/98-(DO-I) dated 05.11.1998.

- 8.4 E procurement must be adhered to while inviting tender for the work.
- 8.5 The tenders for the work shall be invited on EPC mode as per guidelines issued by this Ministry vide circular letter No. RW/NH-24035/4/2008-P & M/PIC dated 21.05.2011 in addition to guidelines issued by this Ministry vide circular Letter No. RW/NH-11024/3/99-US (D-1) DATED 9.3.2000, No. RW/NH-24035/4/2008-P&M dtd. 21.05.2010 and No. NH-12037/67/2010/LWE dated 2.8.2010.
- 8.6 While accepting tenders that the overall cost of estimate at tender rates including contingencies, work charge establishment and agency charges does not exceed by more than 5% of sanctioned cost.
- 8.7 Excess in tender cost is caused only by routine factors such as increase in cost of labour or material.
- 8.8 Excess due to change of scope or enlargement / reduction of work or specifications as already approved in the sanctioned estimate would require prior approval of Ministry.

9. General

- 9.1 The provision of Project contingencies and agency charges should be utilized as per Ministry's circular letter no. NH-15017/17(2)/2016-P&M dated 16.06.2016. For any other item, which is not covered in the above circular necessary approval of Ministry (in principle) with the recommendation of Concerned RO should be taken before execution. However, sub-estimate for the same should be got approved from Concerned RO, before execution.
- 9.2 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 Authority's Engineer/CE (NH), PWD Department that the amount provided against contingencies is available and the same has not been indirectly utilized by accepting higher tender rates. Authority's Engineer/ENC/CE (NH), PWD Department shall also certify that approval of estimates to be charged to contingencies will not cause revision of the sanctioned estimate.
- 9.3 Collection of material on the roadside should be so planned that it should commensurate with the physical progress of work and the collected material 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.
- 9.4 No work beyond the scope of the sanctioned estimate leading to increase in the scope of the work or change in specification should be undertaken without obtaining prior written approval of the Ministry. In case, the estimate needs revision due to change in rates/tender rates for any reasons, the revised estimate shall be submitted immediately for Ministry's approval. No expenditure beyond permissible In this connection, this Ministry's letter No. RW/NH/III/Coord/32/84 dated 19.5.84 and NH-11026/2/99-US (DI) dated 29.10.2001 may be referred.

- 9.5 In order to ensure that there is no slippage in achieving the targets, the progress may be closely monitored by ENC/CE (NH), R86B Departmental quarterly status report be furnished to the Ministry in the prescribed proforma.
- 9.6 During the course of execution, the traffic may be regulated in accordance with guidelines laid down vide Ministry's letter no. NHIII-33 (126)/72 dated 20.03.1973 and letter No.RW/NH-11060/1/1998-D.O.1 dated 07.10.1987. Smooth flow of the traffic may be ensured by providing adequate traffic control devices in accordance with stipulation of IRC: SP: 55:2001 "Guidelines on Safety in construction Zone".
- 9.7 It is observed that simultaneous working at large number of work fronts in long stretches is causing severe inconvenience to traffic during construction. Therefore, it is suggested that fronts may not be operated in more than 3 km length simultaneously, without completing the bituminous surfacing in the stretches where excavation/granular layers are carried out. Suitable provisions in the contract shall be incorporated for proper traffic management.
- 9.8 The display boards on development activities of the work shall be made as per guidelines issued vide Ministry's letter no. RW/NH-33044/ 10/2002-S&R (R) dated 26th May, 2003. The cost of the same will be met out of the provision of contingencies allowed in the estimate.
- 9.9 The work is to be carried out in accordance with the "Hand Book of Quality control for construction of Roads and Runways (Second Revision)-IRC SP:11-1988", observing strict quality control instructions contained in the Ministry's letter No.NH-III/P/I/83 dated 19 April 1984 and permanent records maintained thereof.
- 9.10 The independent quality control tests of all items from any of the accredited laboratories as per IRC: SP:94-2011 shall be carried out from the quality control provision in estimate to ensure the quality of work.
- 9.11 Neither the work nor any item of work shall be split into small parts for awarding the work to a number of contractors. In this regard, instructions issued in this Ministry's letter No. NH-III/P/25/84 dated 4/8/1984 may be referred
- 9.12 Guidelines for Road Safety vide Ministry's letter No. RW/ NH-33072/04/2004-S86R(R) dated 27.04.2012 shall be followed wherever applicable.

#### **10. Cost of work:**

- 10.1 The estimate is based on rates of SSR 2017-18. It is presumed that CE (NH), of State PWD while forwarding the proposal has satisfied himself about the adequacy and workability of the rates of various items of work and that rates adopted in the estimate are latest and no revision of the rates has occurred till date.
- 10.2 The lead for the carriage of different materials as proposed in the estimate has been allowed for estimate purpose only. However, while calling tenders the



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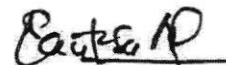
sources may not be indicated. The contractor shall be responsible to procure the material conforming to specification of the work. No provision of extra lead during execution of the work shall be allowed.

10.3 In view of the above comments, the cost of the estimate amounts to Rs. 301.39 Crores including 3% agency charges. The construction period of the project shall be 18 months.

10.4 Following physical and financial targets may be adhered to subject to the availability of funds:

Year	Milestone	Cumulative progress			
		Financial (Rs. in Crore.)			
		Physical	Construction	Maintenance	Total
2017-18	Milestone I	Preliminary	0.05	0	0.05
2018-19	Milestone II	40%	118.50	0	118.50
2019-20	Milestone III	100%	296.25	0	296.25
2020-21	Maintenance	100%	0.00	0.51	296.76
2021-22	Maintenance	100%	0.00	1.54	297.79
2022-23	Maintenance	100%	0.00	3.08	299.33
2023-24	Maintenance	100%	0.00	5.14	301.39

11. The matter as discussed in the SFC meeting held on 16.02.2018 should be strictly followed by State PWD/MSRDC. The Minutes of meeting issued for the SFC meeting vide letter dated 9.3.2018 is enclosed with the Technical Note for ready reference.



(S. K. Arya)

Executive Engineer (Zone-IV)

For Director General (RD) & Special Secretary