



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण (सड़क परिवहन और राजमार्ग मंत्रालय)

**National Highways Authority of India**  
(Ministry of Road Transport & Highways)

क्षेत्रीय कार्यालय, ओडिशा / Regional Office, Odisha

301 - ए, तीसरी मंजिल, पाल हाइट्स, प्लॉट नं जे/7, जयदेव विहार  
भुवनेश्वर - 751013, ओडिशा

301-A, 3rd Floor, Pal Heights, Plot No : J/7, Jayadev Vihar  
Bhubaneswar- 751013, Odisha

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ई-मेल /e-mail : roodisha@nhai.org

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NHAI/13011/16//RO/OD/ 865 /2018

10.04.2018

To

The Sr. Technical Director,  
NIC Centre at MoRTH,  
Transport Bhawan,  
New Delhi 110001

Sub: Permission for laying/crossing of 0.2 M dia water supply of pipeline along NH-53 (Old NH-200) at Ch.413.250 (between Duburi to Chandikhole stretch near Gobarghati)— reg

Sir,

Please find enclosed herewith a proposal seeking NOC for laying/crossing of 0.2 M dia water supply of pipeline along NH-53 (Old NH-200) at Ch.413.250 (between Duburi to Chandikhole stretch near Gobarghati) in the State of Odisha by M/s. TATA Steel Limited, Kalinga Nagar, Jajpur.

2. Accordingly, as per guidelines issued by MoRTH vide F. No. RW/NH-33044/29/2015/S&R(R) dt. 22.11.2016, the application along with the recommendations of concerned PD/Consultants are enclosed herewith with request to hoist the same in the Ministry's Website for public comments within 30 days of uploading on the website.

This is issued with the approval of the "Regional Officer, NHAI, Regional Office, Odisha, Bhubaneswar".

Yours faithfully,

General Manager (Tech.)



## भारतीय राष्ट्रीय राजमार्ग प्राधिकरण (सड़क परिवहन और राजमार्ग मंत्रालय)

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NHAI/13011/16//RO/OD/ 857 /2018

10.04.2018

### INVITATION OF PUBLIC COMMENTS

**Sub: Permission for laying/crossing of 0.2 M dia water supply of pipeline along NH-53 (Old NH-200) at Ch.413.250 (between Duburi to Chandikhole stretch near Gobarghati)– reg**

M/s. TATA Steel Limited, Kalinga Nagar, Jajpur has submitted a proposal seeking NOC for laying/ crossing of 0.2 M dia water supply of pipeline along NH-53 (Old NH-200) at Ch.411.050 (between Duburi to Chandikhole stretch near Gobarghati) by using Jack pushing method in the State of Odisha.

2. As per guidelines issued by MoRTH vide F. No. RW/NH-33044/29/2015/S&R(R) dt. 22.11.2016, the Highway Administration will put out the application in the public domain for 30 days for seeking claims and objections (on grounds of public inconvenience, safety and general public interest).

3. In view of the above, the comments of public, if any, on the above mentioned proposal is invited on below mentioned address:

The Regional Officer,  
National Highways Authority of India,  
Regional Office, Odisha  
301-A, 3rd Floor, Pal Heights,  
J/7, Jayadev Vihar, Bhubaneswar 751013, Odisha  
e-mail : [roodisha@nhai.org](mailto:roodisha@nhai.org)

This is issued with the approval of the "Regional Officer, NHAI, Regional Office, Odisha, Bhubaneswar".

General Manager (Tech.)  
National Highways Authority of India,  
Regional Office, Odisha  
301-A, 3rd Floor, Pal Heights,  
J/7, Jayadev Vihar, Bhubaneswar 751013



No. TSK/INFRA/780/2017

Date: 12.01.2018

To,

The Project Director,  
National Highway Authority of India  
Plot No. 1768, Near Kalinga Eye Hospital  
Dakhinkali Road, Dhenkanal-759001, Odisha

Sub.: Approval for ROW of NHAI for laying/crossing of 0.2 M dia water supply pipe line along NH-53 (Old NH-200) at chainage 413.250 (Between Duburi to Chandikhoie stretch near Gobarghati)

Ref.: NHAI Circular No. RW/NH-33044/29/2015/SR(R) dtd. 22<sup>nd</sup> Nov'16 regarding accommodation of Public & Industrial Utility Services and National Highways.

Dear Sir,

In inviting a kind reference to the subject cited above, we are hereby submitting the proposal as follows for your kind consideration and accord of necessary approval:

1. Route plan.
2. Cross section plan
3. License deed agreement.
4. Undertakings.
5. Checklist.
6. Methodology of Jack pushing method.

Fee & Charges will be deposited in accordance with NHAI guidelines after getting approval.

Submitted for your kind perusal and approval please.

Thanking You,  
For M/S TATA STEEL LIMITED

*Rajiv Kumar*  
Rajiv Kumar  
(Vice-President-OP, TSK)  
Vice President (Operation-KPO)  
TATA STEEL LIMITED

भा.रा.रा.प्रा. प.का.इ., डेकानाल  
NHAI, P.I.U., Dhenkanal  
डा. नं. ....  
Dy No. 1753  
दिनांक .....  
Date 12.01.18

MKS  
15/11

**TATA STEEL KALINGANAGAR**

Jajpur 755 026 India

Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001

Tel 91 22 66658282 Fax 91 22 66657724

Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com

#### CHECK – LIST

Guidelines for Project Directors for processing the proposal for laying of Water Supply Pipe Line in the land along National Highways vested with NHAI.

- **Relevant Circulars**

1. Ministry Circular No. NH-41(58)/68 dated 31.1.1969
2. Ministry Circular No. NH-III/P/66/76 dated 18/19.11.1976
3. Ministry Circular No. RW/NH-III/P/66/76 dated 11.05.1982
4. Ministry Circular No. RW/NH-11037/1/66-DOI(ii) dated 28.07.1993
5. Ministry Circular No. RW/NH-11037/1/86-DOI dated 19.01.1995
6. Ministry Circular No. RW/NH-34066/2/95/S&R dated 25.10.1999
7. Ministry Circular No. RW/NH-34066/7/2003 S&R(B) dated 17.09.2003



Check list for getting approval for laying of Water Supply Pipe Line on NH land.

Sl. S	Item	Information/Status	Remarks
1	General Information	Permission for laying 200mm dia water supply pipeline along National Highway-53(Old NH-200) between Duburi to Chandikhole from Chainage 413/148 Km to chainage 413/260 Km by Jack pushing method.	
1.1	Name and address of the applicant/agency	Rajiv Kumar (Vice-President-OP,TSK) Kalinganagar, Duburi Dist- Jajpur, Odisha	
1.2	National Highway Number	NH-53(Old NH-200)	
1.3	State	Odisha	
1.4	Location	Tata Medica Hospital	
1.5	(Chainage in Km.)	Ch 413+148 to Ch. 413+260	
1.6	Length in Meters.	112m	
1.7	Width of available Row	90m	
	(a) Left side from centre line towards increasing chainage/km. direction	Right side and crossing	
	(b) Right side from centre line towards increasing chainage/km. direction	NA	
1.8	Proposal to lay underground electrical cable	No Electrical cable laying involved	
	(a) Left side from center line towards increasing chainage/km direction.		
	(b) Right side from center line towards increasing chainage/km direction.		
1.9	Proposal to acquire land	Right to use of NH ROW as per P& MP Act is required for laying water pipeline along the NH ROW	
	(a) Left side from centre line.	NA	
	(b) Right side from centre line.	NA	
1.10	Whether proposal is in the same side where land is not to be acquired	Right to use of NH ROW as per P& MP Act is required for laying water pipeline along the NH ROW	
	If not then where to lay the cable	N/A	
1.11	Details of already laid services, if any, along the proposed route	Enclosed	
1.12	Number of lanes (2/4/6/8 lanes)existing	2	
1.13	Proposed number of lanes(2 lane with paved shoulders/4/6/8 lanes)	4 Lane	
1.14	Service road existing or not	Not exist	
	If yes then which side		

  
 Site Engineer  
 National Highways Authority of India  
 Project Implementation Unit-Dhenkanal  
 Project Implementation Unit-Dhenkanal

  
 Vice President (Operation-KPO)  
 TATA STEEL LIMITED

  
 परियोजना निदेशक  
 PROJECT DIRECTOR  
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
 National Highways Authority of India  
 प.का.इ. डेकनाल / PIU Dhenk

	(a) Left side from center line		
	(b) Right side from center line		
1.15	Proposed service road	NO	
	(a) Left side from centerline		
	(b) Right side from center line		
1.16	Whether proposal to lay Water supply pipe line is after the service road or between the service road and main carriageway	Proposal is to lay water pipeline along the NH ROW	
1.17	The permission for laying of water supply pipe line shall be considered for approval/rejection based on the Ministry Circulars mentioned as above	Yes, water pipeline to be consider	
(a)	Carrying of sewage/gas pipelines on highway bridges shall not be permitted as fumes /gases pipes can accelerate the process of corrosion or may cause explosions, thus, being much more injurious than leakage of water.	Agreed	
(b)	Carrying of water pipe lines on bridges shall also be discouraged. However if the water supply authorities seem to have no other viable alternative and approach the Highway Authority well in time before the design of the bridge is finalized. They may be permitted to carry the pipe line on independent superstructure, supported on extended portions of piers and abutments in such a manner that in the final arrangement enough free space around the superstructure of the bridge remains available for inspection and repairs etc.	Agreed	
(c)	Cost of required extension of the substructure as well as that of the supporting superstructure shall be borne by the agency- in- charge of the utilities.	Agreed	
(d)	Services are not being allowed indiscriminately on the parapet/any part of the bridges, Safety of the bridges has to be kept in view while permitting various services along bridge. Approvals are to be accorded in this regard with the concurrence of the Ministry's project Chief Engineers only.	Agreed	
1.18	If crossing of the road involved. If yes, it shall be either encased in pipes or through structure of conduits specially built for that purpose at the expenses of the agency owning the line.	Yes, Latest technology of Jack pushing technique shall be adopted for crossing the National Highway, wherein a minimum depth of 3m from the road level shall be maintained. In this method the pipeline is encased. Brief Description of Jack pushing Methodology and its advantages is enclosed.	<p><i>hcl</i></p> <p>परियोजना निर्देशक PROJECT DIRECTOR भारतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highways Authority of India प का.इ. देकानाल / PIU Dhenkana</p>

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National Highways Authority of India  
Project Implementation Dhenkana

Vice President (Operation-KR)  
TATA STEEL LIMITED

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(a)	Existing drainage structures shall not be allowed to carry the lines.	No drainage structure involved in laying of water pipeline.	
(b)	Is it on a line normal to NH	Yes	
(c)	Crossing shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter. What is the distance from the existing structures?	Agreed	
(d)	The casing pipe(or conduit pipe in the case of electric cable) carrying the utility line shall be of steel, cast iron, or reinforced cement concrete and have adequate strength and be large enough to permit ready withdrawal of the carrier pipe/cable.	Not Applicable	
(e)	Ends of the casing/conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.	Agreed	
(f)	The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope in the fills.	Agreed	
(g)	The top of the casing/conduit pipe should be at least 1.2 meter below the surface of the road subject to being at least 0.3 mtr below the drain inverts.	Yes	
(h)	Crossing shall be by boring method (HDD) specially where the existing road pavement is of cement concrete or dense bituminous concrete type.	Jack pushing technique shall be adopted.	
(i)	The casing/conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the formation of a waterway along it.	Jack pushing technique shall be adopted	
2	Document / Drawings enclosed with proposal	Yes	
2.1	Cross section showing the size of trench for open trenching method.(Is it normal size of 1.2m deep X0.3m wide).	Yes	
(i)	Should not be greater than 60cm. Wider than the outer diameter of the pipe.	Yes	
(ii)	Located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-lines of the nearest carriageway.	Yes	
(iii)	Shall not be permitted to run along the National Highways when the road formation is situated in double cutting. Nor shall these be laid over the existing culverts and bridges.	Yes	
(iv)	These should be so laid that their top is at least 0.6 meter below the ground level so as not to obstruct drainage of the road land.	Yes	
2.2	Cross section showing the size of the pit and location of cable for HDD method	Incorporated in the drawing	
2.3	Strip plan / Route plan showing water supply pipe line, chainage, width of ROW,	Yes	

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Project Implementation Unit, Dhenkanal

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TATA STEEL LIMITED

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भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
National Highways Authority of India  
प को.इ. देवनागल / P.U. Dhenkanal

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	distance of proposed pipe line from the edge of ROW, important mile stone, intersections, cross drainage works etc.		
2.4	Methodology for laying of proposed water supply pipe line.	Enclosed	
2.4.1	Open trenching method (May be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type). If yes, Methodology of refilling of trench.	Agreed	
(a)	The trench width should be at least 30 cm, but not more than 60 cm wider than the outer diameter of the pipe.	Agreed	
(b)	For filling of the trench, bedding shall be to a depth of not less than 30cm. It shall consist of granular material, free of lumps, clods and cobbles and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edged should be excavated and replaced by selected material.	Agreed	
(c)	The backfill shall be completed in two stages (i) side-fill to the level of the top of the pipe and (ii) overfill to the bottom of the road crust.	Agreed	
(d)	The side fill shall consist of granular material laid in 15cm layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the Proctor's Density. Overfill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or ponding will not be permitted.	Agreed	
(e)	The road crust shall be built to the same strength as the existing crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench.	Agreed	
(f)	The excavation shall be protected by flagman, signs and barricades and red lights during night hours.	Agreed	
(g)	If required, a diversion shall be constructed at the expenses of agency owning the utility line.	Agreed	
2.4.2	Horizontal Directional Drilling(HDD) Method	Methodology attached	
2.4.3	Laying of water supply pipe line through CD works and method of laying	NA	
(a)	On approaches, the water supply mains/cables shall be carried along a line as close to the edge of the right-of-way as possible up to a distance of 30 m from the bridge and subject to all other stipulations contained in this Ministry's guidelines issued with letter No. NH-HI/P/66/76 dated 19.11.1976.	NA	<p><i>ke</i></p> <p>परियोजना निर्देशक PROJECT DIRECTOR भारतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highways Authority of India प.का.इ. देहनाल / PIU Dhenkanal</p>

Site Engineer  
National Highways Authority of India  
Project Implementation Unit-Dhenkanal

Vice President (Operation-K)

TATA STEEL LIMITED

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3	Draft License Agreement signed by two witness	Enclosed	
4	Performance Bank Guarantee in favour of NHAI has to be obtained @ Rs.50/- per running meter (parallel to NH) and Rs. 1,00,000/- per crossing of NH, for a period of one year initially (extendable if required till satisfactory completion of work) as a security for ensuring / making good the excavated trench for laying the cables/ducts by proper filling and compaction, cleaning debris / loose earth produced due to execution of trenching at least 50m away from the edge of the right of way. No payment shall be payable by the NHAI to the licensee for clearing debris /loose earth.	To be submitted as and when intimated by NHAI	
4.1	Performance BG as per above is to be obtained.	Shall be submitted as above	
4.2	Confirmation of BG has been obtained as per NHAI guidelines	Yes	
5	Affidavit/Undertaking from the applicant for	Yes	
5.1	Not to damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency.	Yes	
5.2	Renewal of Bank Guarantee.	Yes	
5.3	Confirming all standard condition of NHAI's guidelines.	Yes	
5.4	Shifting of Water supply pipe line as and when required by NHAI at their own cost.	May not be applicable as the pipeline is to be laid across the NH ROW by Jack pushing method at a depth of min 3m from NH surface	
5.5	Shifting due to 6 laning/widening of NH.	May not be applicable as the pipeline is to be laid across the NH ROW by Jack pushing method at a depth of min 3m from NH surface	
5.6	Indemnity against all damages and claims clause(24).	Yes	
5.7	Traffic movement during laying of water supply pipeline to be managed by the applicant.	Yes	
5.8	If any claim is raised by the Concessionaire then the same has to be paid by the applicant.	Yes	
5.9	Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the showing water supply pipe line located in the National Highway right of ways. <i>S. Sanyal</i> Site Engineer	Yes	<i>Heena</i> परियोजना निदेशक PROJECT DIRECTOR भारतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highways Authority of India प.का.इ. देकानाल / PIU Dhenkanal

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TATA STEEL LIMITED

*Rajiv Kumar*

5.10	Expenditure, if any incurred by NHAI for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the water supply pipe line will be borne by the agency owning the line.	May not be applicable as the pipeline is to be laid across the NH ROW by Jack pushing method at a depth of min 3m from NH surface
5.11	If the NHAI considers it necessary in future to move the utility line for any work of improvement or repairs to the road, it shall be carried out as desired by the NHAI at the cost of the agency owning the utility line within a reasonable time(not exceeding 60days) of the intimation given.	May not be applicable as the pipeline is to be laid across the NH ROW by Jack pushing method at a depth of min 3m from NH surface
5.12	Certificate from the applicant in the following format (i) Laying of water supply pile line will not have any deleterious effects on any of the bridge components and roadway safety for traffic. (ii) For 6-laning" We do undertake that we will relocate service roads/approach road/utilities at our own cost notwithstanding the permission granted within such time as will be stipulated by NHAI for future six-laning or any other development".	Enclosed
6	Who will sign the agreement on behalf of water supply pipe line agency	Rajiv Kumar
7	Certificate from the Project Director	Shall be enclosed
7.1	Certificate for confirming of all standard condition issued vide Ministry Circular No.  1. Ministry Circular No. NH-41(58)/68 dated 31.1.1969 2. Ministry Circular No. NH-III/P/66/76 dated 18/19.11.1976 3. Ministry Circular No. RW/NH-III/P/66/76 dated 11.05.1982 4. Ministry Circular No. RW/NH-11037/1/86-DOI(ii) dated 28.07.1993 5. Ministry Circular No. RW/NH-11037/1/86-DOI dated 19.01.1995 6. Ministry Circular No. RW/NH-34066/2/95/S&R dated 25.10.1999 7. Ministry Circular No. RW/NH-34066/7/2003 S&R(B) dated 17.09.2003	
7.2	Certificate from PD in the following format (i) " It is certified that any other Site Location of the Water Supply	

National Highway  
Project Implementation

Ministry of India  
Dhenkanal

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Vice President (Operation-KPO)  
TATA STEEL LIMITED

Rajiv Kumar

	<p>difficult and unreasonable costly and the installation of Water Supply pipe line within ROW will not adversely affect the design, stability and traffic safety of the highway nor the likely future improvement such as widening of the carriageway, easing of curve etc.”</p> <p>(ii) For 6-laning</p> <p>(a) Where feasible is available” I do certify that there will be no hindrance to proposed six-laning based on the feasibility report considering proposed structures at the said location.”</p> <p>(b) In case feasibility report is not available, “ I do certify that sufficient ROW is available at site for accommodating proposed six-laning.”</p>		
8	<p>If NH section proposed to be taken up by NHAI on BOT basis –a clause is to be inserted in the agreement. “the permitted Highway on which Licensee has been granted the right to lay cable/duct has also been granted as a right of way to the concessionaire under the concession agreement for up-gradation of [----- -section from Km ----- to Km ----- --of NH NO.-----on Build, Operate and Transfer Basis ] and therefore, the licensee shall honour the same.”</p>	Yes, inserted in the agreement	
9	Who will supervise the work of laying of water Supply pipe line		
10	Who will ensure that the defects in road portion after laying of water supply pipe line are corrected and if not corrected then what action will be taken.		
11	Who will pay the claims for damages done/disruption in working of concessionaire if asked by the concessionaire.	TATA Steel Limited	
12	A certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed proforma (copy enclosed).		
13	If any previous approval is accorded for laying of underground water supply pipe line that photocopy of register of records of permissions accorded as maintained by PD then copy be enclosed	<i>hce</i>	

National  
Project  
Site Engineer  
Authority of India  
Unit-Dhenkanal

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PROJECT DIRECTOR  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
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प का इ डेकानाल / PIU Dhenkanal  
*Rajesh Kumar*  
Vice President (Operation-KPO)  
TATA STEEL LIMITED