



# 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

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NHAI/13011/16//RO/OD/ 2922/2018

14.12.2018

To

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

**Sub:** Permission for laying of 0.800 M & 0.600 M dia Iron Ore Slurry Pipe line along NH from Km. 425.800 to Km. 427.700 (RHS) and crossing NH from Km. 425.730 (LHS) to Km. 425.800 (RHS) of NH-200 (New NH-53) -reg

Sir,

Please find enclosed herewith a proposal seeking NOC for laying of 0.800 M & 0.600 M dia Iron Ore Slurry Pipe line along NH from Km. 425.800 to Km. 427.700 (RHS) and crossing NH from Km. 425.730 (LHS) to Km. 425.800 of Chandikhole-Pankpal section of NH-200 (New NH-53) in the State of Odisha.

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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(Ministry of Road Transport & Highways)

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NHAI/13011/16//RO/OD/ 2921 /2018

14.12.2018

### INVITATION OF PUBLIC COMMENTS

**Sub:** Permission for laying of 0.800 M & 0.600 M dia Iron Ore Slurry Pipe line along NH from Km. 425.800 to Km. 427.700 (RHS) and crossing NH from Km. 425.730 (LHS) to Km. 425.800 (RHS) of NH-200 (New NH-53) -reg.

M/s. JSW Utkal Steel Ltd has submitted a proposal seeking NOC for laying of 0.800 M & 0.600 M dia Iron Ore Slurry Pipe line along NH from Km. 425.800 to Km. 427.700 (RHS) and crossing NH from Km. 425.730 (LHS) to Km. 425.800 of Chandikhole-Pankpal section of NH-200 (New NH-53) 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".

  
14/12/18

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

JSW Utkal Steel Limited



29<sup>th</sup> Nov'18

**Project Director ,**  
National Highway Authority of India (NHAI)  
Plot No. 1768 , Near Kalinga Eye Hospital  
Dakshin Kali Marg , Dhenkna -759001 , Odisha

**Sub :** Minor Change in RoW from Chainage 425.80 Km to 427.700 KM from LHS to RHS ( Side as per increasing Km ) on NH-53 wrt. your letter No. 11035/01/Pipeline/PIU-DKNL/2018/1453 dtd 28.11.18  
**Ref :** JSW/U/O/2018/325 dtd 16<sup>th</sup> Nov'18  
JSW/U/O/2018/280 dtd 29<sup>th</sup> Sept'18  
ROW approval vide letter No. 11035/01/pipeline/PIU-DKL/2017/201 dtd. 20.02.18

Dear Sir,

This has reference for change in direction from LHS to RHS in a minor length of 1.90 Km out of 29.75 Km for which had a meeting with RO – BBSR on 15<sup>th</sup> Sept'18 in which it was desired that a check list indicating the changes required to be submitted. Since draft agreement on non-judicial paper don't indicate sides (either LHS or RHS) thus draft agreement already submitted are valid as it is related to BG & Rent. It desired in your letter to submit the methodology for laying of pipe lines , though it is already submitted with original proposal yet we are submitting again.

Therefore request an early approval for change of side to RHS for stretch measuring 1.9 Km out of 29.75 Km from Ch+425.80 to 427.70 Km from LHS to avoid any conflict with existing pipe line laid by other. Pipe laying activities are going to commence shortly.

We shall be grateful to you.

Thanking You,

for M/S JSW Utkal Steel Limited

  
(S.N. Singh)

General Manager (Projects)

**Enclosure :**  
: Checklist as per NHAI  
: Strip Drawing  
: RoW  
: Methodology to lay pipe line  
: Draft agreement

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T +91 674 2596117

भारत रा. प्रा. प. का. इ., डेकनल

N H A I , P . I . U , Dhenkanal

डा. नं.

Dy No 3592

दिनांक

Date 31.11.18

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03-12-18

PA



O P Jindal Group



## JSW Utkal Steel Limited

Plot No-3, Forest Park, Shishubhawan Square, Bhubaneswar, Odisha-751009

**Change of Side RoW from Pankpal (425.800 Km) to Chandikhole (427.700 Km) on NH-200 ( New NH-53) RHS ( Increasing Km)**

### **CHECK -LIST**

**Guidelines for Project Directors for processing the proposal for laying of 0.8 M dia & 0.6 M Iron Ore Slurry Pipeline along NH-200 ( New NH-53)**

#### Relevant Circulars

- 1) Ministry Circular No. NH-41 (58)/68 dated 31.01.1969
- 2) Ministry Circular No. NH-3/P/66/76 dated 18/19 .11.1976
- 3) Ministry Circular No. RW/NH/-3/P/66/76 dated 11.05.1982
- 4) Ministry Circular No. RW/NH-11037/1/66-DOI (2) 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
- 8) Ministry Circular No. RW/NH-33044/29/2015/S&R\* dtd 22.11.16

#### **Check list for approval for crossing of Iron Ore Slurry Pipelines on NH Land**

SL.No.	Item	Information/status	Remarks
1	General Information	JSWUSL have proposed to carry 30 MTPA Iron Ore from Mining Area to Paradip in slurry form thus seeking Permission for laying 0.8 M dia & 0.60 M iron ore slurry pipeline across National Highway No-200 (New NH-53) from Pankpal (+397.750 Km) to Chandikhole (+427.700 Km ) by Open Trench method in general and Horizontal Directional Drilling (HDD) Method at specific location like River , Bridge , Canal , Road , Railway ....etc & places where locational constraint exist. <b>After getting approval it was found another slurry pipe line is passing on same side &amp; offset. Thus to avoid conflict it is required to change LHS to RHS in 1.90 Km.</b>	-
1.1	Name and Address of the Appicant/Agency	M/s JSW Utkal Steel Limited ,Plot No-3, Forest Park, Shishubhawan Square, Bhubaneswar, Odisha-751009	-
1.2	National highway No-	NH-200 (New NH-53)	-
1.3	State	Odisha	-
1.4	Location	Pankpal ( +425.800 Km) to Chandikhole ( +427.700 Km ) RHS	-
1.5	Chainage in km	Ch+425.80 Km to +427.70 km	-
1.6	Length in Meters	1900	-
1.7	Width of available ROW	In General More than 38 M , however RoW sheets are attached herewith.	ROW Attached

	(a) Left side from center line towards increasing chainage/km direction		-
	(b) Right side from centre line towards increasing chainage /km direction	Chainage +425.800 Km to +427.700 Km	Attached
1.8	Proposal to lay underground electrical cables	No Electrical cable laying involved	-
	(a) Left side from center line towards increasing chainage/km direction	N/A	-
	(b) Right side from centre line towards increasing chainage /km direction	N/A	-
1.9	Proposal to acquire land	<b>Right to use of NH ROW as per P&amp;MP Act is available for Laying the Iron ore slurry ( Industrial Corridor ) pipe line across the NH ROW. Hence Not required.</b>	-
	(a) Left side from center line	Right Side	-
	(b) Right side from centre line	Right Side	-
1.1	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 the Iron ore slurry pipelines across the NH ROW	-
	if not then where to lay the cable	At the eadge of RoW	-
1.11	Details of already laid services, if any ,along the proposed route	Details enclosed of Essar pipe laying	-
1.12	Number of lanes (2/4/6/8) existing	Existing 2 lanes , upgradation to 4 lanes are underway	-
1.13	Proposed number of lanes (2 lane with paved shoulders/4/6/8 lanes)	4 Lanes with Paved Shoulder	-
1.14	Service road existing or not	No	-
	If yes then which side		-
	(a) Left side from center line towards increasing chainage/Km direction		
	(b) Right side from center line		
1.15	Proposed Service road	Details of proposed service roads are enclosed herewith	
	(a) Left side from center line		
	(b) Right side from center line		
1.16	Whether proposal to lay Iron Ore Slurry pipelines are after the service road or between the service road and main carriageway	Proposal is to lay two rows of Iron ore Slurry pipeline at the eadge of ROW	
1.17	The permission for laying of Iron Ore Slurry pipeline shall be considered for approval/rejection based on the ministry circulars mentioned as above.		



1.17.1	(a) Carrying of Iron Ore Slurry pipeline on bridges shall also be discouraged. However if the authorities seem to have no other viable alternative and approach the highway authority well in the time before the design of the bridge is finalised, they may be permitted to carry the pipeline 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.	Locations where permanent structures exist HDD methodology will be used without damaging structure while laying Iron Ore Slurry pipe lines and in General Open Trench method will be used.	
1.17.2	(b) Cost of required extension of the substructure as well as that of the supporting superstructure shall be done by the agency-in-charge of the utilities		
	(c) 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		
1.18	If crossings of the road involved - If Yes, it shall be either encased in pipes or through structure or conduits specially built for the purpose at the expenses of the agency owning the line	<p><i>Crossing at from 425.730 to 425.800m</i></p> <p>Yes, Latest technology of Horizontal Directional Drilling technique shall be adopted for crossing the National Highway, Roads, River, Canal &amp; specific critical locations wherein a minimum depth of 3 M from the road level shall be maintained. In this method the pipeline is not encased. Brief Description of HDD Methodology and its advantages over casing method are enclosed.</p>	
	(a) Existing drainage structures shall not be allowed to carry the lines.	Yes	
	(b) Is it on the line normal to NH	Yes	
	(c) Crossing shall not be too near the existing structures on the National Highway, the minimum distance being 5 M. What is the distance from the existing structures.	All the crossing shall be done with HDD methods with approval of concerned owner of the facility with adequate safety and without damaging the structure.	



	(d) The casing pipe (or conduit pipe in 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.	N/A	
	(e) Ends of the casing /conduit pipe shall be sealed from the outside , so that it does not act as a drainage path.	N/A	
	(f) The casing/conduit pipe should ,as minimum extend from drain to drain in cuts and toe of slope toe of slope in the fills.	Yes	
	(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 M below the drain inverts.	Yes	
	(h) Crossing shall be boring method (HDD) specially where the existing road pavement is of cement concrete or dense bitumenious concrete type.	HDD 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 water way along it.	HDD technique shall be adopted	
2	Document/drawings enclosed with a proposal	Yes	
2.1	Cross section showing the size of trench for open trenching method (is it normal size of 1.5 m deep x 1.5 m wide)	yes	
	(a) Should not be greater than 80 Cm wider than the outer diameter of the pipe	Not applicable	
	(b) located as close to the extreme edge of the right- of-way as possible but not less than 10 meter from the center lines of the nearest carriageway		
	(c ) Shall not be permitted to run along the National Highways when the road formation is suited in double cutting .Nor shall these be laid over the existing culverts and bridges.		
	(d) These should be so laid that their top is at least 0.6 m below the ground level so as not to obstruct drainage of the road land		






2.2	Cross section showing the size of pit and location of cable for HDD method	Incorporated in the drawing	
2.3	Strip plan/ route plan showing pipeline ,chainage, width of ROW, distance of proposed , pipeline from the edge of ROW ,important milestone , intersections, cross drainage works etc.	Yes	
2.4	Methodology for laying Iron Ore Slurry pipeline	Open Trench menthod in general , however Horizontal Directional Drilling method for laying Iron Ore slurry pipelines across NH (methodology attached) for Road , Railway , River , Canal ( With due permission of concerned agency ) , specific critiacl location will be done.	
2.4.1	Open trenching method (may be allowed in utility corridor only where pavement is neither cement concretenor dense bituminous concrete type .If yes, Methodology of refilling of trench	Agreed	
	(a) The trench width should be atleast 90 cm , but not more than 150 cm wider than the outer diameter of pipe		
	(b) For filling of the trench ,Bedding should be a depth of not less than 30 cm. It shall consists of granular materials ,free of lumps,clods and cobblesand graded too		
	(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 road crust.		
	(d) The side fill shall consist of granular material laid in 15 cm layers each consolidated by mechanical tampering and controlled addition of moisture to 90% 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.		
	(e ) The road crust shall be build to the same strength as the existing crust on either side on the trench .		
	(f) The excavation shall be protected by flagman , signs and barricades , and red lights during night hours.		






	(g) If required , a diversion shall be constructed at the expense of the agency owning the utility line		
2.4.2	Horizontal Directional Drilling (HDD) Method	Methodology attached	
2.4.3	Laying of Iron Ore Slurry pipeline through CD works and method of laying	HDD technique shall be adopted	
	(a) On approaches , the water 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 05 m from the bridge and subject to all other stipulations contained in this Ministry's guidelines issued with letter No. H1/P/66/76 dated 19.11.1976.	Agreed	
3	Draft License Agreement signed by two witnesses	Agreed	
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 ,clearing debris/loose earth produced due to excavation of trenching at least 50 m away from the edge of the right of way . No payment shall be payable by the NHAI to the license 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 in due course.	
4.2	Confirmation of BG has been obtained as per NHAI guidelines	Shall be obtained before signing of agreement.	
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 guideline	Yes	
5.4	Shifting of Iron Ore Slurry pipeline as and when required by NHAI at our own cost	Agreed	
5.5	Shifting due to 6 lanning/widening of NH	Agreed	



5.6	Indemnity against all damages and claims clause (24)	Yes	
5.7	Traffic movement during laying of Iron ore slurry 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 Iron Ore Slurry pipeline located in the National Highway right-of-way	Yes	
5.1	Expenditure if any ,incurred by NHAI for repairing any damage caused to the National Highway by the laying ,maintenance or shifting of the Iron ore slurry pipeline will be done by the agency owning the lline	Agreed	
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 will be carried out as desired by the NHAI at the cost of the agency owning the utility line within a resonable time (not exceeding 60 days) of the intimation given.	Agreed	
5.12	Certificate from the applicant in the following format (1) laying of Iron ore slurry pipelines will not have any deleterious effects on any of the bridge components and roadway safety for traffic (2) for 6 lanning "we do undertake that I will relocate service road/approach road/utilities at my own cost not withstanding the permission granted within such time as will be stipulated by NHAI for future six-lanning or any other developemnt"	Enclosed	
6	Who will sign the agreement on behalf of Iron Ore Slurry pipelines agency	Director & Head of Odisha Project for Iron Ore Slurry pipelines agency M/s JSW UTKAL STEEL Limited, Authorization letter enclosed	

7	Certificate from the project director		
7.1	Certificate for confirming of all standard condition issued vide Ministry Circular No. NH-41(58)/(68) dated 31.1.1969, Ministry Circular No. NH-3/P/66/76 dated 18/19.11.1976 , Ministry Circular No. RW/NH-3/P/66/76 dated 11.5.1982 , Ministry Circular No. RW/NH-11037/1/86-DOI (2) dated 28.7.1993, Ministry Circular No. RW/NH-11037/1/86-DOI dated 19.1.1995, Ministry Circular No. RW/NH-34066/2/95/S&R dated 25.10.1999 and Ministry Circular No. RW/NH-34066/7/2003 S&R(B) dated 17.9.2003	Yes	
7.2	Certificate from PD in the following format (1) "It is certified that any other location of the Iron Ore Slurry pipelines would be extremely difficult and unreasonable costly and the installation of Iron Ore Slurry pipelines within ROW will not adversely affect improvement such as widening of the carriageway ,easing of curve etc. " (2) for six-lanning (a) where feasibility is available " I do certify that there will be no hindrance to proposed six lanning based on the feasibility report considering proposed structures at the said location " (b) in case feasibility report is not available" I do certify that sufficient ROW is available at site for accomodating proposed six-lanning.	Yes	
8	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 permission to lay Iron Ore Slurry pipeline may likely to be handed over to the concessionaire under the concession agreement for up-gradation of.....[section from Km.....of NH No.....on build ,Operate and Transfer Basis ] and therefore , the licensee shall honour the same. "	NA	
9	who will supervise the work of laying Iron Ore Slurry pipeline	JSWUSL / NHAI	

10	Who will ensure that the defects in road portion after laying of Iron Ore Slurry pipeline are corrected and if not corrected then what action will be taken.	JSWUSL	
11	Who will pay the claims for damages done/disruption in working of concessionaire if asked by the concessionaire.	JSW Utkal 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).	Yes	
13	If any previous approval is accorded for laying of underground Iron Ore Slurry pipeline then photocopy of register of records of permissions accorded as maintained by PD then copy be enclosed	Yes	

