



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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वेबसाइट/Website : http://www.nhai.org

NHAI/13011/54/RO/OD/ 1066 /2019

23.05.2019

INVITATION OF PUBLIC COMMENTS

Sub: Change in ROW permission for laying of 0.80m & 0.60m dia. Iron Ore Slurry Pipeline by M/s. JSW Utkal Steel Ltd. from Chainage Km. 0.000 to Km. 4.500 from LHS to RHS on NH-5A (New NH-53) as M/s. Essar Pipelines are laid on same Chainage and same offset- Reg.

M/s. JSW Utkal Steel Ltd. has submitted a proposal seeking NOC for change in ROW permission for laying of 0.80m & 0.60m dia. Iron Ore Slurry Pipeline by M/s. JSW Utkal Steel Ltd. from Chainage Km. 0.000 to Km. 4.500 from LHS to RHS on NH-5A (New NH-53) as M/s. Essar Pipelines are laid on same Chainage and same offset.

2. As per guidelines issued by MoRT&H vide F. No. RW/NH-33044/29/2015/S&R(R) dated 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**

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

[Signature]
23/05/19

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



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NHAI/13011/54/RO/OD/ 1065 /2019

23.05.2019

To,

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

Sub: Change in ROW permission for laying of 0.80m & 0.60m dia. Iron Ore Slurry Pipeline by M/s. JSW Utkal Steel Ltd. from Chainage Km. 0.000 to Km. 4.500 from LHS to RHS on NH-5A (New NH-53) as M/s. Essar Pipelines are laid on same Chainage and same offset- **Reg.**

Sir,

Please find enclosed herewith a proposal seeking NOC for change in ROW permission for laying of 0.80m & 0.60m dia. Iron Ore Slurry Pipeline by M/s. JSW Utkal Steel Ltd. from Chainage Km. 0.000 to Km. 4.500 from LHS to RHS on NH-5A (New NH-53) as M/s. Essar Pipelines are laid on same Chainage and same offset.

2. Accordingly, as per guidelines issued by MoRT&H vide F. No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016, the application alongwith 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.)

JSW Utkal Steel Limited

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

Change of Side RoW from Chandikhole (0.000 Km) to Paradip (4.500 Km) on NH-5A (Revised NH-53) RHS (Increasing Km)

REVISED-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-5A (Revised Name 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

Revised 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 along National Highway No-5A (Revised Name NH-53) from Chandikhole (0.000 Km) to Paradip (76.580 Km) by Open Trench method in general and Horizontal Directional Drilling (HDD) Method at specific location like River , Bridge , Canal , Road , Railwayetc & places where locational constraint exist. After getting approval it was found another slurry pipe line is passing on same side & offset. Thus to avoid conflict it is required to change LHS to RHS in 4.50 Km.	-
1.1	Name and Address of the Applicant/Agency	M/s JSW Utkal Steel Limited ,Plot No-3, Forest Park, Shishubhawan Square, Bhubaneswar, Odisha-751009	-
1.2	National highway No-	NH-5A (Revised NH-53)	-
1.3	State	Odisha	-
1.4	Location	Chandikhole to Paradip	-
1.5	Chainage in km	Ch-0.000 Km to Ch-4.500 Km	-
1.6	Length in Meters	4500 m	-
1.7	Width of available ROW	In General More than 10 M.	ROW Attached

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	(a) Left side from center line towards increasing chainage/km direction		-
	(b) Right side from centre line towards increasing chainage /km direction	Right Side from Chainage 0.000 (Chandikhole) to 4.500 KM (Paradip)	-
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	Right to use of NH ROW as per P&MP Act is available for Laying the Iron ore slurry (Industrial Corridor) pipe line across the NH ROW.	-
	(a) Left side from center line	Right Side	-
	(b) Right side from centre line	Right Side	-
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 the Iron ore slurry pipelines 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	NHAI to intimate	-
1.12	Number of lanes (2/4/6/8) existing	Existing 4 lanes & Proposed for Six lane	-
1.13	Proposed number of lanes (2 lane with paved shoulders/4/6/8 lanes)	NHAI to intimate	-
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	NHAI to intimate	
	(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 Iron ore Slurry pipelines along the NH 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.	Yes, Iron Ore Slurry pipelines to be considered	


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	(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.		
	(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	N/A	
	(a) Existing drainage structures shall not be allowed to carry the lines.	AS above	
	(b) Is it on the line normal to NH	Yes	


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 01/02/19


	(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.	N/A	
	(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.	N/A	
	(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.	N/A	
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 15 meter from the center lines of the nearest carriageway		

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	(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	In general Slurry lines along NH will be laid through Open Trench Method, however Crossings will be done through HDD (Horizontal Directional Drilling), Auger Boring, Box Pushing method for laying Iron Ore slurry pipelines across NH (methodology attached)	
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 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 cobbles and 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.		

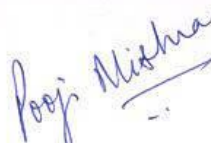

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	(d) The side fill shall consist of granular material laid in 15 cm layers each consolidated by mechanical tamping and controlled addition of moisture to 95% of the proctor's Density. Overfill shall be compacted to the same density as the material that had been removed . Consolidation by saturation or ponding will not be permitted.		
	(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	1. Ch+0.300 Km Culvert of 33.6 M Span . Crossing to be done with Augar Boring Method. 2. Ch+1.97 Km culvert of 12.50 M span. Crossing to be done with Augar Boring Method 3. Ch+2.97 Km culver of 40.20 M span . Crossing to be done with Augar Boring Method	
	(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 30 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.		
3	Draft License Agreement signed by two witnesses	Agreed	


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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 aperiod 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 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 guideline	Yes	
5.4	Shifting of Iron Ore Slurry pipeline as and when required by NHAI at our own cost	May not be applicable as the pipeline is to be laid along the NH ROW by HDD method at a depth of min 3.0 meters from NH surface .	
5.5	Shifting due to 6 lanning/widening of NH	May not be applicable as the pipeline is to be laid along the NH ROW by HDD method at a depth of min 3.0 meters from NH surface .	
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	


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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	May not be applicable the pipeline is to be laid along the NH ROW by HDD method at adepth of min 8 meters from 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 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.	May not be applicable the pipeline is to be laid along the NH ROW by HDD method at adepth of min 3 meters from from NH surface	
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 development"	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		

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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		
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 cum return water pipeline 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.		


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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. "	Yes, inserted in the agreement	
9	who will supervise the work of laying Iron Ore Slurry pipeline	JSWUSL	
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	No	


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