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 हाईटस, प्लाट् नं जे/7, जयदेव विहार
भुवनेश्वर - 751013, ओडिशा
301-A, 3rd Floor, Pal Heights, Plot No : J/7, Jayadev Vihar
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NHAI/13011/54/RO/OD/ 3956 /2021 10.11.2021

To

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

Sub: Rehabilitation and up gradation of existing two lane to four lane standards from Duburi to Chandikhol section (Km.388.376 to Km.428.074) of NH-200 (New NH-53) in the state of Odisha under NHDP-III **– ROW permission to lay and road crossing of 50mm dia Oxygen pipeline (Steel) with Casing Pipe (HDPE) of 160mm dia through HDD methodology at chainage 391+400.-Reg**

Sir,

Please find enclosed herewith a proposal of M/s Tata Steel, Kalinganagar for laying and road crossing of 50mm dia Oxygen pipeline (Steel) with Casing Pipe (HDPE) of 160mm dia through HDD methodology at chainage 391+400. The details are as under:

Sl. No.	Chainage	Side	Dia of Pipe (In mm)	Dia of Casing pipe (In mm)	Remark
1.	391+400	Crossing	50	160	Laying and road crossing of 50mm dia Oxygen pipeline (Steel) with Casing Pipe (HDPE) of 160mm dia through HDD methodology.

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,

10/11/21

(D.K. Patra)
Manager (Tech)

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NHAI/13011/54/RO/OD/ 3055 /2021

11.11.2021

INVITATION OF PUBLIC COMMENTS

Sub: Rehabilitation and up gradation of existing two lane to four lane standards from Duburi to Chandikhol section (Km.388.376 to Km.428.074) of NH-200 (New NH-53) in the state of Odisha under NHDP-III **– ROW permission to lay and road crossing of 50mm dia Oxygen pipeline (Steel) with Casing Pipe (HDPE) of 160mm dia through HDD methodology at chainage 391+400- Reg**

M/s Tata Steel, Kalinganagar has submitted a proposal for laying and road crossing of 50mm dia Oxygen pipeline (Steel) with Casing Pipe (HDPE) of 160mm dia through HDD methodology at chainage 391+400. The details are as under:

Sl. No.	Chainage	Side	Dia of Pipe (In mm)	Dia of Casing pipe (In mm)	Remark
1.	391+400	Crossing	50	160	Laying and road crossing of 50mm dia Oxygen pipeline (Steel) with Casing Pipe (HDPE) of 160mm dia through HDD methodology.

2. As per guidelines issued by MoRTH 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".**

11/11/21

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

Tata Steel Limited

Kalinga Nagar Industrial Complex, Duburi, Jajpur, Odisha 755026 India

Seeking Right of Way (ROW) Permission for laying and road crossing of Oxygen Pipeline on Ch 391.400 Km on Chandikhol - Duburi NH-53

CHECK -LIST

Guidelines for Project Directors for processing the proposal for laying and road crossing of 50 mm dia Oxygen Pipeline (Steel) with Casing Pipe (HDPE) of 160 mm dia through HDD methodology at Ch. 391.400 Km on Chandikhol - Duburi 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 22.11.2016
9) Ministry Circular No. RW/NH-37011/52/2020-BP&SP dtd. 15.01.2021

Check list for approval on laying and road crossing of Oxygen Pipeline with OFC on NH ROW Land

SL.No.	Item	Information/status	Remarks
1	General Information	TATA Steel Ltd., Kalinganagar has proposed to facilitate Oxygen support to its TS Medica Hospital for treatment of general public in the larger interest of the nearby community. For above noble cause, TATA Steel Ltd., Kalinganagar seeks ROW approval for laying and road crossing of 50 mm dia Oxygen Pipeline (Steel) with Casing Pipe (HDPE) of 160 mm dia through HDD methodology at Ch. 391+400 on Chandikhol-Duburi NH-53.	
1.1	Name and Address of the Applicant/Agency	TATA Steel Ltd, Kalinga Nagar Industrial Complex, Duburi, Jajpur, Odisha 755026 India	
1.2	National highway No-	NH 53	
1.3	State	Odisha	
1.4	Location	Gobarghati at Kalinganagar on Chandikhol-Duburi NH	
1.5	Chainage in km	Ch. 391+400	
1.6	Length in Meters	90 mtr (in general)	
1.7	Width of available ROW	90 mtr (in general)	
	(a)Left side from center line towards increasing chainage/km direction	45 mtr	
	(b) Right side from centre line towards increasing chainage /km direction	45 mtr	
1.8	Proposal to lay underground pipes/electrical/FOC cables	50 mm dia Oxygen Pipeline (Steel) with Casing Pipe (HDPE) of 160 mm dia through HDD methodology	

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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		
1.9	Proposal to acquire land	NA	
	(a)Left side from center line	NO	
	(b) Right side from centre line	NO	
1.10	Whether proposal is in the same side where land is to be acquired	NA	
	if not then where to lay the cable	N/A	
1.11	Details of already laid services, if any ,along the proposed route	Yes, existing laid services considered in the cross sectional drawings & documents attached	
1.12	Number of lanes (2/4/6/8) existing	Existing 4 lanes	
1.13	Proposed number of lanes (2 lane with paved shoulders/4/6/8 lanes)	NA	
1.14	Service road existing or not	NA	
	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	Yes	
	(a) Left side from center line	Proposed service road varies from 14m to 30 m from centre line of road	
	(b) Right side from center line	Proposed service road varies from 14m to 30 m from centre line of road	
1.16	Whether proposal to lay Oxygen pipelines are after the service road or between the service road and main carriageway	Across the Service road and Main Carraigeway as per NHAI Guideline	
1.17	The permission for laying of Oxygen pipeline shall be considered for approval/rejection based on the ministry circulars mentioned as above.	Yes, agreed	
	a) Carrying of Oxygen pipeline on Bridges shall not be permitted as fumes/gases pipe can accelerate the process of corrosion or may be cause explosion, thus bing much more injurious than leakage of water	N/A	

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	b) Carrying of Oxygen 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 finalised, 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 arraingement enough free space around the superstructure of the bridge remains available for the inspection and repairs etc.	N/A	
	(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	Yes, agreed to comply	
	(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 thls regard with the concurrence of the Ministry's Project Chief Engineers only	Yes, agreed to comply	
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	Yes , crossing involved and it shall be encased with HDPE 160mm dia pipes at our cost. (One number of crossing at Ch.391+400.	
	(a) Existing drainage structures shall not be allowed to carry the lines.	Yes, agreed to comply	
	(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 15 M. What is the distance from the existing structures.	Distance from the nearest existing structures is beyond 50m	

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	(d) The casing pipe (or conduit pipe in case of electric cable) carrying the utility line shall be of steel, cast iron, hdpe or reinforced cement concrete and have adequate strength and be large enough to permit ready withdrawal of the carrier pipe/cable.	Yes, agreed and Casing pipe material to be used is HDPE of 150mm dia for carrying Oxygen pipe and fiber optic cable	
	(e) Ends of the casing /conduit pipe shall be sealed from the outside , so that it does not act as a drainage path.	Yes, agreed to comply	
	(f) The casing/conduit pipe should ,as minimum extend from drain to drain in cuts and toe of slope to toe of slope in the fills.	Yes, agreed to comply	
	(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, agreed to comply	
	(h) Crossing shall be boring method (HDD) specially where the existing road pavement is of cement concrete or dense bituminous concrete type.	Yes, crossing will be done by HDD method	
	(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.	Yes, agreed to comply	
2	Document/drawings enclosed with the proposal	Yes, drawing, documents, enclosed	
2.1	Cross section showing the size of trench for open trenching method (Is it normal size of 1.2m deep X 0.3m wide)	Not normal size but as per drawing attached	
	(i) Should not be greater than 60 Cm wider than the outer diameter of the pipe	Yes, agreed to comply	
	(ii) 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	Yes, agreed to comply	

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	(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, agreed to comply	
	(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	Yes, agreed to comply	
2.2	Cross section showing the size of pit and location of cable for HDD method	Yes, Submitted as 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, submitted showing all desired details in the drawings	
2.4	Methodology for laying Oxygen pipeline	Yes, Submitted	
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	Yes, open trenching allowed as per submitted methodology at specific locations as per available ROW & further compliance by TATA as per MoRTH/IRC guidelines, such mentioned below	
	(a) The trench width should be atleast 30 cm, but not more than 60 cm wider than the outer diameter of pipe	Yes, agreed to comply	
	(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 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.	Yes, agreed to comply	
	(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.	Yes, agreed to comply	

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National Highways Authority of India

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	(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 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.	Yes, agreed to comply	
	(e) The road crust shall be build 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.	Yes, agreed to comply	
	(f) The excavation shall be protected by flagman , signs and barricades , and red lights during night hours.	Yes, agreed to comply	
	(g) If required , a diversion shall be constructed at the expense of the agency owning the utility line	Yes, agreed to comply	
2.4.2	Horizontal Directional Drilling (HDD) Method	Yes, HDD method allowed as per submitted methodology at specific locations as per available ROW & further compliance by TATA as per MoRTH/IRC guidelines	
2.4.3	Method of Laying of Iron Ore Slurry pipeline and Return water pipeline through CD works	At all CD work locations HDD method will 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 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.	Yes, agreed to comply	
3	Draft License Agreement signed by two witnesses	Yes, submitted	

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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 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.	Yes, agreed for submission of Performance BG as per latest MoRTH / NHAI guidelines	
4.1	Performance BG as per above is to be obtained	Yes, agreed for submission	
4.2	Confirmation of BG has been obtained as per NHAI guidelines	Yes, will be obtained after submission of BG	
5	Affidavit/Undertaking from the applicant for	yes, agreed & submitted	
5.1	Not to damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency	Yes, agreed to comply & submitted undertaking	
5.2	Renewal of Bank Guarantee	Yes, agreed to comply & submitted undertaking	
5.3	Confirming all standard condition of NHAI's guideline	Yes, agreed to comply & submitted undertaking	
5.4	Shifting of Oxygen pipeline as and when required by NHAI at our own cost	Yes, agreed to comply & submitted undertaking	
5.5	Shifting due to 6 lanning/widening of NH	Yes, agreed to comply & submitted undertaking	
5.6	Indemnity against all damages and claims clause (24)	Yes, agreed to comply & submitted undertaking	
5.7	Traffic movement during laying of Oxygen pipeline to be managed by the applicant	Yes, agreed to comply & submitted undertaking	
5.8	If any claim is raised by the concessionaire then the same has to be paid by the applicant	Yes, agreed to comply & submitted undertaking	
5.9	Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the showing Oxygen pipeline located in the National Highway right-of-way	Yes, agreed to comply & submitted undertaking	

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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 Oxygen pipeline will be done by the agency owning the line	Yes, agreed to comply & submitted undertaking	
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 reasonable time (not exceeding 60 days) of the intimation given.	Yes, agreed to comply & submitted undertaking	
5.12	Certificate from the applicant in the following format (1) Laying of Oxygen 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"	Yes, agreed to comply & submitted undertaking	
6	Who will sign the agreement on behalf of Oxygen pipelines agency	Authorised Signatory as appointed by TSL and Power of Attorney attached	
7	Certificate from the project director	Attached	

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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-DOIdated 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, Attached	
7.2	Certificate from PD in the following format (1)"It is certified that any other location of the Oxygen pipelines would be extremely difficult and unreasonable costly and the installation of Oxygen within ROW will not adversely affect the design, stability & traffic safety of the highway nor the likely future 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 accommodating proposed six-lanning.	Attached	

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C/S

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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 right to lay cable/duct/lay Oxygen pipeline has also been granted as a right of way to the concessionaire under the concession agreement may likely to be handed over to the concessionaire for up-gradation of.....[section from Km.....of NH No.....on build ,Operate and Transfer Basis] and therefore , the licensee shall honour the same. "	Not applicable	
9	who will supervise the work of laying Oxygen pipeline	TATA Steel Ltd, Kalinga Nagar Industrial Complex, Duburi, Jajpur, Odisha 755026 India	
10	Who will ensure that the defects in road portion after laying of Oxygen pipeline are corrected and if not corrected then what action will be taken.	TATA Steel Ltd, (At Kalinga Nagar Industrial Complex, Duburi, Jajpur, Odisha 755026 India) will ensure rectification of defects and if not corrected, TATA Steel Ltd to bear the cost of rectification as asked by NHAI	
11	Who will pay the claims for damages done/disruption in working of concessionaire if asked by the concessionaire.	TATA Steel Ltd, (At Kalinga Nagar Industrial Complex, Duburi, Jajpur, Odisha 755026 India) will pay the claims of damages	
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, attached	
13	If any previous approval is accorded for laying of underground Oxygen pipeline then photocopy of register of records of permissions accorded as maintained by PD then copy be enclosed	Yes, enclosed	

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