



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 हाईट्स, 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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ronhaiodisha@gmail.com

वेबसाइट/Website : http://www.nhai.org



भारतमाला
एकरी के पथ पर अन्नदाता



BHARATMALA
ROAD TO PROSPERITY

NHAI/13011/54/RO/OD/ 2581 /2021

23.09.2021

To

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

Sub: Rehabilitation and up-gradation of existing 2 lane to 4-lane standards of Rimuli (Km 163.000) to Koida (Km 206.200) Section of NH-215 (New NH-520), i.e. Package-I in the State of Odisha on EPC Mode under NHDP Phase-III on EPC Mode-Regarding Permission request for laying of 1000 mm dia water pipeline along and across the National Highway Utility Corridor, NH-520, Rimuli-Koida section from Ch: Km 173.600 to Km 204.600 by M/s JSW Utkal Steel Limited- Reg

Sir,

Please find enclosed herewith a proposal of M/s JSW Utkal Steel Limited for laying of 1000 mm dia water pipeline along and across the National Highway Utility Corridor, NH-520, Rimuli-Koida section from Ch: Km 173.600 to Km 204.600. The details are as under:

Sl. No.	Chainage		Side	Length (m)	Remarks
	From	To			
1	173.600	174.600	RHS	1000	1000 mm dia water pipeline
2	174.600		Across	60	Casing dia 1300mm for water pipeline.
3	174.600	181.500	LHS	6900	1000 mm dia water pipeline
4	181.500		Across	60	Casing dia 1300mm for water pipeline.
5	181.500	183.500	RHS	2000	Constraint due to ROB @Km 182.562
6	183.500		Across	60	Casing dia 1300mm for water pipeline.
7	183.500	204.600	LHS	21100	1000 mm dia water pipeline
8	204.600		Across	60	Casing dia 1300mm for water pipeline.
Total				29240m	

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, Bhubaneswa.

Yours faithfully,


(D.K. Patra)
Manager (Tech)



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जहाँ से सपना बन जाता है



BHARATMALA
ROAD TO PROSPERITY

NHAI/13011/54/RO/OD/ 2580 /2021

23.09.2021

INVITATION OF PUBLIC COMMENTS

Sub: Rehabilitation and up-gradation of existing 2 lane to 4-lane standards of Rimuli (Km 163.000) to Koida (Km 206.200) Section of NH-215 (New NH-520), i.e. Package-I in the State of Odisha on EPC Mode under NHDP Phase-III on EPC Mode-Regarding Permission request for laying of 1000 mm dia water pipeline along and across the National Highway Utility Corridor, NH-520, Rimuli-Koida section from Ch: Km 173.600 to Km 204.600 by M/s JSW Utkal Steel Limited- Reg

M/s JSW Utkal Steel Limited has submitted a proposal for laying of 1000 mm dia water pipeline along and across the National Highway Utility Corridor, NH-520, Rimuli-Koida section from Ch: Km 173.600 to Km 204.600. The details are as under:

Sl. No.	Chainage		Side	Length (m)	Remarks
	From	To			
1	173.600	174.600	RHS	1000	1000 mm dia water pipeline
2	174.600		Across	60	Casing dia 1300mm for water pipeline.
3	174.600	181.500	LHS	6900	1000 mm dia water pipeline
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7	183.500	204.600	LHS	21100	1000 mm dia water pipeline
8	204.600		Across	60	Casing dia 1300mm for water pipeline.
Total				29240m	

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".

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

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

Regarding Permission, request for laying of 1000mm dia water pipeline along and across Rimuli-Koida Section at Ch. 173.600 Km Ch. 204.600 Km on NH-215 (Revised NH-520) in RHS (Increasing Km) & Road crossing at ch 173.600 km from LHS to RHS & at ch 204.600 km from to LHS

CHECK -LIST

Guidelines for Project Directors for processing the proposal for laying of 1000mm dia Water pipeline along NH-215 (New NH-520) and NH Crossing from Ch. 173.600Km to 174.600km RHS, from ch 174.600km to ch 181.500 kmLHS, ch 181.500km to ch 183.500 km, & from ch 183.500km to 204.600km LHS

Relevant Circulars

1. Ministry Circular No.-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 of laying Water Pipeline in ROW of NH land NH Crossing in 04 locations on NH Land

SL.No.	Item	Information/status	Remarks
1	General Information	Laying of 1000mm water pipeline from Km	
1.1	Name and Address of the Applicant/Agency	M/S JSW Utkal Steel Limited Plot No-3, Forest Park, Shishu bhawan Square, Bhubaneshwar, Odisha-751009	
1.2	National highway No-	NH-215 (New NH-520)	
1.3	State	Odisha	
1.4	Location	Rimuli-Koira (Rimuli-Roxy-Rajamunda)	
1.5	Chainage in km	Ch-173.600 Km to Ch-204.6 Km	Recommended for 173.600 - 181.500 & 183.500 - 204.600

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का.उ. राउरकेला / PIU, Rourkela

[Signature]

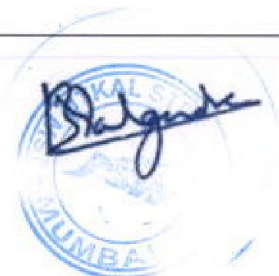
1.6	Length in Meters	31000 m	29000m + 60m x 4 crossings recommended
1.7	Width of available ROW	60 m	ROW Attached Annexure-A
	(a) Left side from centre line towards increasing chainage/km direction		As per attached Drawing
	(b) Right side from centre line towards increasing chainage /km direction	Right Side from Chainage 173.600 to 204.600 KM in Rimuli -Koida - Roxy -Rajamunda section	As per attached Drawing
1.8	Proposal to lay underground electrical cables		
	(a) Left side from centre line towards increasing chainage/km direction	N/A	
	(h) 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 Water (Industrial Corridor) pipe line across the NH ROW.	
	(a) Left side from centre line		
	(b) Right side from centre line		
1.10	Whether proposal is in the same side where land is not to be acquired	YES	
	if not then where to lay the cable	N/A	
1.11	Details of already laid services, if any ,along the proposed route	Annexure-B	
1.12	Number of lanes (2/4/6/8) existing	Existing 2 lanes & Work Under process for upgradation of Road up to 4 lanes	
1.13	Proposed number of lanes (2 lane with paved shoulders/4/6/8 lanes)	4-Lane with Paved Shoulder	
1.14	Service road existing or not	No	
	If yes then which side		
	(a) Left side from centre line towards increasing chainage/Km direction		
	(b) Right side from centre line		
1.15	Proposed Service road	Annexure-C	
	(a) Left side from centre line		
	(b) Right side from centre line		

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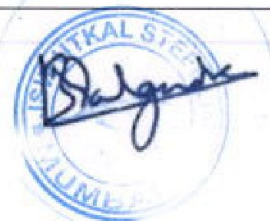
1.16	Whether proposal to lay water pipelines are after the service road or between the service road and main carriageway	After Service road, in the extreme edge of ROW	
1.17	The permission for laying of water pipeline shall be considered for approval/rejection based on the ministry circulars mentioned as above.	Yes, 1 no water pipeline to be considered	
	(a) Carrying of water 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		


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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, Latest technology of Horizontal Directional Drilling technique shall be adopted for crossing the National Highway, 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.	
	(a) Existing drainage structures shall not be allowed to carry the lines.	AS above	
	(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.	Agreed (>15m)	
	(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.	Agreed	
	(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 toe of slope in the fills	Yes	


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2.4	Methodology for laying Iron Ore Slurry pipeline	Open trench method ,For crossings Horizontal Directional Drilling 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 at least 90 cm , but not more than 150 cm wider than the outer diameter of pipe	Agreed	
	(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	Agreed	
	(c) The backfill shall be completed in two stages (i)side-fill to the level of the top of the pipe and (it) overfill to the bottom of road crust.	Agreed	
	(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	Agreed	

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काठमांडू : PIU, Rourkela



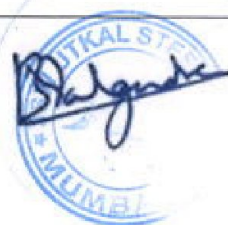
	be permitted.		
	(e) The road crust shall be built to the same strength as the existing crust on either side on the trench .	Agreed	
	(f) The excavation shall be protected by flagman , signs and barricades , and red lights during night hours.	Agreed	
	(g) If required , a diversion shall be constructed at the expense of the agency owning the utility line	Agreed	
2.4.2	Horizontal Directional Drilling (HDD) Method	Methodology attached	
2.4.3	Laying of water pipeline through CD works and method of laying		
	(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 bituminous 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	


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	(a) Should not be greater than 80 Cm wider than the outer diameter of the pipe	agreed	
	(b) 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	agreed	
	(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.	agreed	
	(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	agreed	
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	
	(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. HI/P/66/76 dated 19.11.1976.	agreed	
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 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.	agreed	
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	Shall be submitted as above	
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	

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5.4	Shifting of water 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 water 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 pipeline located in the National Highway right-of-way	yes	
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 Iron ore slurry pipeline will be done by the agency owning the line	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 reasonable time (not exceeding 60 days) of the intimation given.	agreed	


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5.12	Certificate from the applicant in the following format (1) laying of water 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 notwithstanding 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 water pipelines agency.	Director & Head of Odisha Project for water 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 , d 17.9.2003	enclosed	
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	7.2	

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Balagunda

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 water pipeline then photocopy of register of records of permissions accorded as maintained by PD then copy be enclosed	Enclosed	Annexure-D


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Details of ROW NH- 520				
Sl No.	Chainage		ROW (m)	Side
1	173	174.6	60	RHS
2	174.6	181.5	60	LHS
3	181.5	183.5	60	RHS
4	183.5	204.6	60	LHS

