सत्यमेव जयते

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय,भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport & Highways, Govt of India)
क्षेत्रीय कार्यालय, ओड़िशा /Regional Office, Odisha
301 - ए, तीसरी मंजिल, पाल हाईटस, प्लाट् नं जे/7, जयदेव विहार, भुवनेश्वर - 751013, ओड़िशा
301-A, 3rd Floor, Pal Heights, Plot No : J/7, Jayadev Vihar, Bhubaneswar- 751013, Odisha
दूरभाष/Ph.: 0674 - 2361470/ 570/670 (का/O)
ई-मेल/e-mail : roodisha@nhai.org, ronhaiodisha@gmail.com, वेबसाइट/Web : www.nhai.gov.in

NHAI/13011/54/RO/OD/ 415 /2024 26.02.2024

To

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

Sub: Rehabilitation and up-gradation to 4- laning of Rajamunda- Barkote section of NH-23 (New NH-143) Km. 287+200 to Km.337+185 in the State of Odisha under NHDP-IV on EPC Mode- **Laying of 0.800 M dia of Iron Ore Slurry Pipeline with 65 mm OFC along NH-23 (New NH-143) from Rajamunda (Km.287+200) to Narendra (Kn.292+450) on LHS and crossing at Km.292+450- Reg**

Ref: PD, PIU- Keonjhar letter No. 1757 dated 09.11.2023

Sir,

Please find enclosed herewith a proposal of M/s Bhusan Power & Steel Limited for laying of 0.800 M dia of Iron Ore Slurry Pipeline with 65 mm OFC along NH-23 (New NH-143) from Rajamunda (Km.287+200) to Narendra (Kn.292+450) on LHS and crossing at Km.292+450. The details are as under:

Sl. No.	Chainage		Side	Length (m)	Width of Corridor (mm)	Remarks
	From	To				
1.	Km.287+200	292+450	LHS	5250	1000	Open Trench
2.	Km.292+450		Across	60	1000	HDD Method

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,

(Abinash Behera)
Dy. Manager (Tech)

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भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय,भारत सरकार)
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NHAI/13011/54/RO/OD/ 414 /2024 26.02.2024

INVITATION OF PUBLIC COMMENTS

Sub: Rehabilitation and up-gradation to 4- laning of Rajamunda- Barkote section of NH-23 (New NH-143) Km. 287+200 to Km.337+185 in the State of Odisha under NHDP-IV on EPC Mode- **Laying of 0.800 M dia of Iron Ore Slurry Pipeline with 65 mm OFC along NH-23 (New NH-143) from Rajamunda (Km.287+200) to Narendra (Kn.292+450) on LHS and crossing at Km.292+450-Reg**

M/s Bhusan Power & Steel Limited has submitted a proposal for laying of 0.800 M dia of Iron Ore Slurry Pipeline with 65 mm OFC along NH-23 (New NH-143) from Rajamunda (Km.287+200) to Narendra (Kn.292+450) on LHS and crossing at Km.292+450. The details are as under:

Sl. No.	Chainage		Side	Length (m)	Width of Corridor (mm)	Remarks
	From	To				
1.	Km.287+200	292+450	LHS	5250	1000	Open Trench
2.	Km.292+450		Across	60	1000	HDD Method

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".**

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

M/S Bhushan Power & Steel Ltd

Corporate office: Vill - Thelkoloi, Po - Lapanga, Teh - Rengali, Dist - Sambalpur, Odisha, India, Pin - 768232

Seeking ROW from Rajamunda (287.200 Km) to Narendra (292.450 Km) on NH-23

CHECK -LIST

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 laying of Iron Ore Slurry Pipelines on NH ROW Land

SL.No.	Item	Information/status	Remarks
1	General Information	BPSL operates 3.5 MTPA Integrated plant at Thelkoloi sambalpur, Odisha,and source its Iron ore from Koira sector in sundergarh distt. through road & rail transport. therefore for logistic easement BPSL propose to transport iron ore through pipe line to avoid thraffic congestion and rail movement. Transportion of iron ore through pipe line will not only reduce traffic on the road but substantionaly reduce fuel consumption which is a prime need for better environment.BPSL will Collect the iron ore from its group company JSW steel limited (Narayanposhi mines)which is indentefied as captive mines for BPSL & other mines, located in koira sector. Iron ore will be collected at one location and after its beneficiation it proposed to be transport through slurry pipe line to BPSL Sambalpur. it will be a green investment, thus seeking Permission for laying 32 inch dia 1 no of Iron Ore Slurry Pipeline, along with 65 mm. dia Optical Fiber Cable along National Highway No,23 from Rajamunda (CH-287.200 KM) to Narendra (CH-292.450. KM) by open trench method in general and Horizontal Directional Driling (HDD.) method at specific location like River, bridge, canal, road, railway....etc. and places where locational constrain exit.	

Bipin U Mishra
Team Leader cum Sr. Highway Engineer
Rajamunda-Barkote NH-23

BHUSHAN POWER & STEEL LTD
THELKOLOI
SAMBALPUR

1.1	Name and Address of the Applicant/Agency	M/S Bhushan Power & Steel Ltd Corporate office: Vill - Thelkoloi, Po - Lapanga, Teh - Rengali, Dist - Sambalpur, Odisha, India, Pin - 768232	
1.2	National highway No-	NH No. 23	
1.3	State	Odisha	
1.4	Location	Rajamunda to Narendra	
1.5	Chainage in km	CH 287+200 km to CH 292+450	
1.6	Length in Meters	5250m	
1.7	Width of available ROW	60 mtr (in general)	
	(a)Left side from center line towards increasing chainage/km direction	30mtrs	
	(b) Right side from centre line towards increasing chainage /km direction	30mtrs	
1.8	Proposal to lay underground pipes/electrical/FOC cables	FIBER OPTIC CABLE laying involved along with same pipelines trenches	
	(a)Left side from center line towards increasing chainage/km direction	Yes	
	(b) Right side from centre line towards increasing chainage /km direction	N.A	
1.9	Proposal to acquire land	N.A	
	(a)Left side from center line	N.A	
	(b) Right side from centre line	N.A	
	Whether proposal is in the same side where land is to be acquired	N.A	
1.10	if not then where to lay the cable	N.A	
1.11	Details of already laid services, if any ,along the proposed route	Nil	
1.12	Number of lanes (2/4/6/8) existing	Existing 4 lane construction work is going on	
1.13	Proposed number of lanes (2 lane with paved shoulders/4/6/8 lanes)	4 lanning construction work is going on	
1.14	Service road existing or not		
	If yes then which side		
	(a) Left side from center line towards increasing chainage/Km direction	AS per RoW (utility corridor)	
	(b) Right side from center line	AS per RoW (utility corridor)	
1.15	Proposed Service road		
	(a) Left side from center line	AS per RoW (utility corridor)	
	(b) Right side from center line	AS per RoW (utility corridor)	
1.16	Whether proposal to lay Iron Ore Slurry pipelines are after the service road or between the service road and main carriageway	Proposal to lay Iron Ore slurry pipeline is after the service lane of NH in utility corridor	

Bipion

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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, agreed	
	a) Carrying of Iron Ore Slurry 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	Noted. And shall be complied with	
	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 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	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 this 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	No, crossing not involved	
	(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	

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	(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.	Yes. Agreed that all the crossing shall be done as per technical requirement and NHAI guidelines with approval of concerned owner of the facility with adequate safety. Distance from the nearest structures is beyond 50m	
	(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.	Yes, agreed Casing pipe material will be of STEEL PIPE for carrier pipe and conduite pipe optic fiber 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, agreed to comply	
	(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.	
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)	Yes.Drawing attached	
	(i) Should not be greater than 60 Cm wider than the outer diameter of the pipe	Yes, agreed to comply	

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Rajamunda-Barkote NH-23

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	(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	
	(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	
2.4	Methodology for laying Iron Ore Slurry 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, agreed to comply	
	(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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Rajamunda-Barkote HH-23

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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	Methodology attached	
2.4.3	Laying of Iron Ore Slurry pipeline through CD works and method of laying	CD work is not used for carriage way crossing	
	(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 BG will be submitted as intimated NHAI	
4.1	Performance BG as per above is to be obtained	BG will be submitted as intimated NHAI	
4.2	Confirmation of BG has been obtained as per NHAI guidelines	BG will be submitted as intimated NHAI	
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, and undertaking enclosed	
5.2	Renewal of Bank Guarantee	Shall be submitted	
5.3	Confirming all standard condition of NHAI's guideline	Yes, and undertaking enclosed	
5.4	Shifting of Iron Ore Slurry pipeline as and when required by NHAI at our own cost	Yes, and undertaking enclosed	
5.5	Shifting due to 6 lanning/widening of NH	Yes, and undertaking enclosed	
5.6	Indemnity against all damages and claims clause (24)	Yes, and undertaking enclosed	
5.7	Traffic movement during laying of Iron ore slurry pipeline to be managed by the applicant	Yes, and undertaking enclosed	
5.8	If any claim is raised by the concessionaire then the same has to be paid by the applicant	Yes, and undertaking enclosed	
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, and undertaking enclosed	

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Team Leader cum Sr. Highway Engineer
Rajamunda-Barkote NH-23

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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 Iron ore slurry pipeline will be done by the agency owning the line	Yes, and undertaking enclosed	
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	
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"	Yes, certificate enclosed	
6	Who will sign the agreement on behalf of Iron Ore Slurry pipelines agency	Authorized representative by BPSL (Director & Occupier)	
7	Certificate from the project director	Attached	
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	

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Team Leader cum Sr. Highway Engineer
Rajamunda-Barkote NH-23

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TKELKOLO

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 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	
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 Iron Ore Slurry 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. "	Agreed	
9	who will supervise the work of laying Iron Ore Slurry pipeline	Authorized Representative by BPSL (Director & Occupier)	
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.	M/S Bhushan Power & Steel Ltd Vill - Thelkoloi, Po - Lapanga, Teh - Rengali, Dist - Sambalpur, Odisha, India, Pin - 768232	

Bipin U Mishra
Team Leader cum Sr. Highway Engineer
Rajamunda-Barkote NH-23

BHUSHAN POWER & STEEL LTD. THELKOLOI SAMBALPUR

11	Who will pay the claims for damages done/disruption in working of concessionaire if asked by the concessionaire.	M/S Bhushan Power & Steel Ltd Thelkoloi, Po - Lapanga, Teh - Rengali, Dist - Sambalpur, Odisha, India, Pin - 768232	
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 Iron Ore Slurry pipeline then photocopy of register of records of permissions accorded as maintained by PD then copy be enclosed	Yes, enclosed	

M/S Bhushan Power & Steel Ltd

Authorised Signatory

BHUSHAN POWER & STEEL LTD. THELKOLOI SAMBALPUR

Bipion U Mishra
Team Leader cum Sr. Highway Engineer
Rajamunda-Barkote NH-23

परियोजना निर्देशक
PROJECT DIRECTOR
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India
प.का.इ, केन्दुझर / PIU - Keonjhar.