



# 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

दूरभाष/Tel. : +91-674-2361570/670

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NHAI/13011/54/RO/OD/ 686 /2021

08.03.2021

To,

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

**Sub:** Application for laying of 800 mm MS Iron Ore Slurry Pipeline in Utility corridor of Chandikhole- Panikoili section of NH-16 in between km. 62+000 to km. 90+750-  
**Proposal of M/s. Thriveni Earthmovers Pvt. Ltd. - Reg.**

**Ref:** 1. PD, PIU- Balasore e-mail dated 09.02.2021  
2. PD, PIU- Balasore letter no. 72 dated 01.02.2021  
2. IE letter no. 358 dated 29.12.2020  
4. Concessionaire letter no. 682 dated 15.01.2021  
3. M/s. Thriveni Earthmovers Pvt. Ltd. letter no. 260 dated 23.12.2020

Sir,

Please find enclosed herewith a proposal of M/s. Thriveni Earthmovers Pvt. Ltd. for laying of 800 mm MS Iron Ore Slurry Pipeline in Utility corridor of Chandikhole- Panikoili section of NH-16 in between km. 62+000 to km. 90+750. The following table briefs the locations details of the proposal:

Laying Along NH-16	:	Ch. 62+000 km. to Ch. 90+750 km. (LHS)
Crossing NH-16	:	At Ch. 62+000 km.

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 & Independent Engineer 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.

Yours faithfully,

Encl: As above

CGM (Tech.) & RO, Odisha

Copy to: PD, PIU- Balasore for information



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

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NHAI/13011/54/RO/OD/ 685 /2021

08.03.2021

## INVITATION OF PUBLIC COMMENTS

**Sub:** Application for laying of 800 mm MS Iron Ore Slurry Pipeline in Utility corridor of Chandikhole- Panikoili section of NH-16 in between km. 62+000 to km. 90+750-  
**Proposal of M/s. Thriveni Earthmovers Pvt. Ltd. - Reg.**

M/s. Thriveni Earthmovers Pvt. Ltd. is seeking ROW permission for laying of 800 mm MS Iron Ore Slurry Pipeline in Utility corridor of Chandikhole- Panikoili section of NH-16 in between km. 62+000 to km. 90+750. The following table briefs the locations details of the proposal:

Laying Along NH-16	:	Ch. 62+000 km. to Ch. 90+750 km. (LHS)
Crossing NH-16	:	At Ch. 62+000 km.

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**

*Handwritten signature and date: 08.03.2021*  
**CGM (Tech.) & RO, Odisha**  
**National Highways Authority of India,**  
**Regional Office, Odisha**  
**301-A, 3rd Floor, Pal Heights,**  
**J/7, Jayadev Vihar, Bhubaneswar 751013**



**THRIVENI EARTHMOVERS PRIVATE LIMITED**

At Unchabali, Post Bamebari, Dist Keonjhar - 758 086, Odisha

**Seeking ROW from Chandikhol (62.000 Km) to Panikoili (90.750 Km) on NH-16(Formerly NH-5)****REVISED CHECK LIST****Gudieline for Project Directors for processing the proposal for laying of 800mm dia Iron Ore Slurry Pipeline along National Highway No. 16, (Formerly NH No. 5)**

## Relevant Circulars

- 1) Ministry Circular No. NH-41 (58)/68 dated 31.1.1969
- 2) Ministry Circular No. NH-III/P/66/76 dated 18/19.11.1976
- 3) Ministry Circular No. RW/ NH-III/P/76 dated 11.5.1982
- 4) Ministry Circular No. RW/ NH-11037/1/86-DOI (ii) dated 28.7.1993
- 5) Ministry Circular No. RW/ NH-11037/1/86-DOI dated 19.7.1995
- 6) Ministry Circular No. RW/ NH-34066/2/95/S&R dated 25.11.1999
- 7) Ministry Circular No. RW/ NH-34066/7/2003 S&R dated 17.9.2003
- 8) Ministry Circular No. RW/ NH-33044/29/2015 S&R\* dated 22.11.2016

REVISED CHECK LIST FOR APPROVAL FOR LAYING OF IRON ORE SLURRY PIPELINE ALONG NATIONAL HIGHWAY			
Sl.No.	Item	Information	Status Remarks
1	General Information	Thriveni Earthmovers Pvt. Ltd. has proposed to transport 30 MTPA Iron Ore from mining area around Deojhar, Dist-Keonjhar, Odisha to its proposed Pellet lant at Paradip, Dist-Jagatsinghpur, in form of Iron Ore Slurry through Slurry Pipeline. Thus, the company is seeking permission for laying of one 800mm dia Iron Ore Slurry Pipeline in utility corridor of National Highway No-5 (Revised Name NH-16) from Chandikhol (Chainage 62.000 Km) to Panikoili (Chainage 90.800 Km ) by open trench method in general and Horizontal Directional Driling (HDD) method at specific locations like Road crossings, rivers, bridge, canal, railways etc and places where locational constraints exist.	
1.1	Name and Address of the Applicant / Agency	Thriveni Earthmovers Pvt. Ltd., Post Box No. 1, At : Unchabali, Po: Bamebari, Via: Joda, Dist.: Keonjhar, Odisha - 758034.	
1.2	National highway No.	NH. No - 16 (Formerly NH. No. 5)	
1.3	State	Odisha	
1.4	Location	Chandikhol to Panikoili	
1.5	Chainage in km	CH- 62.000KM To CH-90.750 KM ✓	
1.6	Length in Meters	28750 ✓	
1.7	Width of available ROW	60meters.	

*[Signature]*  
Project Director  
National Highways Authority of India  
PIU-BALASORE



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	(a) Left side from center line towards increasing chainage/km direction	30 Mtrs	
	(b) Right side from centre line increasing chainage/km direction	30Mtrs	
1.8	Proposal to lay underground electric cable	Optic Fiber Cable laying involved in the same pipeline trench	
	(a) Left side from center line towards increasing Chainage /km Directions	As per availability	
	(b) Right Side From center line towards increasing chainage/km direction.	As per availability	
1.9	Proposal to acquire land	NA	
	(a) Left side from center line		
	(b) Right side from center line		
1.10	Whether Proposal is in the same side where land is not to be acquired	NA	
	If not then where to lay the cable	NA	
1.11	Details of already laid services, if any along the proposed route	Nil	
1.12	Numbers of Lanes(2/4 /6/8) existing	Existing 4 lanes and 6 lanning construction work is going on.	
1.13	Proposed number of lanes(2 Lane with paved shoulders/4/6/8 lanes)	6 lanning construction work is going on.	
1.14	Service Road existing or not	As per ROW sheet	
	If yes then which side		
	(a) Left side from centre line		
	(b) Right side from centre line		
1.15	Proposed service road	As per ROW sheet	
	(a) Left side from center line		
	(b) Right side from centerline		
1.16	Whether proposal to Lay Iron Ore Slurry pipe line are after the service road or between the service road and main carriageway.	Proposal to lay Iron Ore Slurry Pipeline is <u>after the service Lane of NH in utility corridor.</u>	
1.17	The permission for laying Iron Ore Slurry pipe line shall be considered for approval /rejection based on the Ministry circular mentioned as above		



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Project Director  
National Highway  
U.B.H.

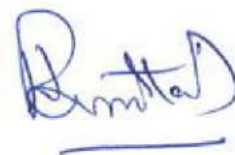
	(a) Carrying of Iron Ore Slurry pipe line on bridges shall also be discouraged. However if the water supply authorities seem to have no other viable alternative and approach the Highway authority well in time before the design of the bridge is finalized. They may be permitted to carry the pipeline on independent superstructures 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.	Noted and shall be complied with.	
	(b) 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.	
	(c) Service are not being allowed indiscreetly on the parapet/ any part of the bridges. Safety of the bridges has to be kept in a view while permitting various services along bridge. Approvals are to be accorded in the regard with the concurrence of the Ministry's project Chief Engineers only.	Yes, agreed to comply.	
1.18	If the crossing of the road involved . If yes ,it shall be either encased in pipes or through structure of conduits specially built for the purpose at the expenses of the agency owing the line.	Yes, It shall be encased at our cost.	
	(a) Existing drainage structure shall not be allowed to carry the lines.	Yes, agreed to comply.	
	(b) Is it on a line normal to NH	Yes	

  
**Project Director,**  
**National Highways Authority of India**  
**PIU-BALASORE**



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R. Mittal



	(c) Crossing shall not be too near the existing structures on the National Highway, the minimum distance being 5 meter. What is the distance from the existing structures?	Yes, agreed that all the crossing shall be done as per technical requirements and NHAI guidelines with approval of concerned owner of the facility with adequate safety.	
	(d) The Casing pipe (or conduit pipe in the 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. <u>Casing pipe material will be of Steel Pipe for carrier pipe and conduit pipe for Optic Fiber Cable.</u>	
	(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 pipe should, as minimum extend from drain to drain in cuts and toe 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 mtr below the drain inverts.	Yes, agreed to comply.	
	(h) Crossing shall be by 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 through out its length and in such a manner as to prevent the information of a waterway along it.	Yes, agreed to comply.	
2	Document/ Drawings enclosed with proposal should indicate the following	Yes	
2.1	Cross Section showing the size of Trench for open trenching method(is it normal size of 1.5m deep x1.5m wide).	Yes, drawing attached.	

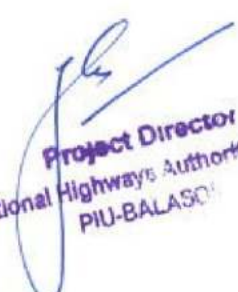
  
**Project Director**  
 National Highways Authority of India  
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	(i) Should not be greater than 80 cm. Wider than the outer diameter of the pipe.	Yes, agreed to comply.	
	(ii) Located as close to the extreme edges of the right of way as possible but not less than 15 meter from the centre 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.	
	(iv) These should be so laid that their top is at least 0.6 meter 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	Incorporated in the drawing	
2.3	Strip plan/Route plan showing Iron Ore Slurry Pipeline/Water pipeline, chainage, width of ROW, Distance of proposed, cable from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Yes, Submitted.	
2.4	Methodology for laying Iron Ore Slurry pipe line.	Methodology 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 trench.	Yes, agreed to comply.	
	(a) The Trench width should be atleast 90 cm, but not more than 150 cm wider than the outer diameter of the pipe.	Yes, agreed to comply.	

  
**Project Director**  
 National Highways Authority of India  
 PIU-BALASORE



  
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	(b) For filling of the trench, bedding shall be to a depth of not less than 30cm. It shall consist of granular material; free of lumps, clods and cobbles and graded too.	Yes, agreed to comply.	
	(c) The backfill shall be completed in two stage (i) side-fill to the level of the top of the pipe and (ii) overfill to the bottom of the road crust.	Yes, agreed to comply.	
	(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 built to the same strength as the existing crust or 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 light during night hours .	Yes, agreed to comply.	
	(g) If required a diversion shall be constructed at the expenses of 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 pipe line, water pipeline through CD works and method of laying	CD works is not used for carriageway crossings ✓	

*[Signature]*  
**Project Director**  
National Highways Authority of India  
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(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 mtr from the bridge and subject to all other stipulations contained in the Ministry's guidelines issued with letter No. H1/P/66/78 dated 19.11.1976	Yes, agreed to comply.	
3	Draft licence Agreement signed by two witness	Yes.	
4	Performance Bank Guarantee in favour of NHAI has to be obtained @ Rs 50 per running meter (parallel to NH) and Rs 100000/- 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 Cable/ducts by proper filling and compaction , clearing debris / loose earth produced due to execution of trenching at least 50 meter away from the edge of the right of Way. No payment shall be payable by the NHAI to the licence for clearing debris / loose earth.	Yes, Agreed. BG will be submitted as intimated by NHAI.	
4.1	Performance BG As per above is to be obtained	BG will be submitted as intimated by NHAI.	
4.2	Confirmation of BG Has been obtained As Per NHAI Guidelines	Yes, BG will be submitted as intimated by NHAI.	
5	Affidavit/ Undertaking from the applicant for the following is to be furnished:		
5.1	Not to Damage to other utilities, if damaged then to pay the losses either to NHAI or to the concerned agency.	Yes and undertake as enclosed.	
5.2	Renewal of Bank Guarantee	Shall be submitted.	
5.3	Confirming all standard condition of NHAI's Guideline	Yes and undertake as enclosed.	

  
**Project Director**  
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5.4	Shifting of Iron Ore Slurry Pipeline, Water Pipeline, as and when required by NHAI at their own cost.	Yes and undertake as enclosed.	
5.5	Shifting Due to 6 Lanning/Widening of NH	Yes and undertake as enclosed.	
5.6	Indemnity against all damages and claims clause(xxiv)	Yes and undertake as enclosed.	
5.7	Traffic movement during laying of Iron Ore Slurry pipe line, water pipeline to be managed by the applicant.	Yes and undertake as enclosed.	
5.8	If any claim is raised by the Concessionaire then the same has to be paid by the applicant.	Yes and undertake as 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 pipe line located in the National Highway right of ways.	Yes and undertake as enclosed.	
5.10	Expenditure, if any incurred by NHAI for repairing and damage caused to the National Highway by the laying, maintenance or shifting of the Iron Ore Slurry Pipeline/Water Pipeline will be borne by the agency owning the line.	Yes and undertake as enclosed.	
5.11	If the NHAI Considers it necessary in future to move the utility line for any work of improvement or repair 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	

Project Director.  
National Highways Authority of India  
PU-BALASORE



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5.12	Certificate from the applicant in the following format (i)Laying Of Iron Ore Slurry pipe line will not have any deleterious effects on any of the bridge componenets and roadway safety for traffic . (II) For 6 lanning " we do undrtake that i will relocate service roads/approach road/utilities at my own cost not with standing the permission granted within such time as will be stipulated by NHAI for future 6 lanning or anyother development ".	Yes and certificate enclosed.	
6	Who will sign the agreement on behalf of Iron Ore Slurry Pipeline/Water Pipeline agency.	Authorised Signatory as appointed by M/s Thriveni Earhmoovers Pvt. Ltd. Authorisation attached.	
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-DOI, dated 19.1.1995, Ministry Circular No. RW/NH-34066/2/95/S&R, dated 25.10.1999 and Ministry Circular No.RW/NH34066/72003 S&R (B) dated 17.9.2003, & Ministry Circular No. RW/NH-33044/29/2015 S&R*, dated 22.11.2016	Attached ✓	
7.2	Certificate from PD In the following format	Attached ✓	

*[Signature]*  
Project Director  
National Highways Authority of India  
PIU-BALASORE





	(I) "It is certified that any other location of the Iron Ore Slurry Pipeline/Water Pipeline would be extremely difficult and un reasonable costly and the installation of Iron Ore Slurry pipe line, water pipeline within ROW will not adversely affect the design, stability and traffic safety of the highway nor the likely future improvement such as widening of the carriageway ,easing of curve etc".		
	(II) For 6-lanning		
	(a) Where feasibility is available "I do certify that there will be no hindrance to proposed 6 lanning based on the feasibility report considering proposed structures at the said loacation".		
	(b) In case feasibility report is not available "I do certify that sufficent ROW Is available at site for accommodating proposed 6 lanning".		
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 License Has been granted the right to lay cable/duct has also been granted as a Right of way to the concessionaire under the concession agreement For upgradation of .....[Section from KM .....Of NH No..... on build ,operate and tranfer basis] and therefore ,Lincensee Shall honour the same".	Agreed	
9	Who will supervise the work of laying Iron-ore slurry pipeline.	Thriveni Earthmovers Pvt,Ltd. At Unchabali, Post Bamebari, Dist Keonjhar - 758 086, Odisha	


*[Signature]*  
Project Director  
National Highways Authority of India  
PIU-BALASORE



*[Signature]*

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.	Thriveni Earthmovers Pvt,Ltd. At Unchabali, Post Bamebari, Dist Keonjhar - 758 086, Odisha	
11	who will pay the claims for damages done/disruption in working of concessionaire if asked by the concessionaire.	Thriveni Earthmovers Pvt,Ltd. At Unchabali, Post Bamebari, Dist Keonjhar - 758 086, Odisha	
12	A certificate from PD that he will enter the proposed permission in the register of the 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/ Water Pipeline then photocopy of register of the records of permissions accorded as maintained by PD then copy be enclosed.	OK	



  
**Project Director**  
**National Highways Authority of India**  
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