



# 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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भारतमाला  
राष्ट्रीय राजमार्ग

BHARATMALA  
ROAD TO PROSPERITY

NHAI/13011/54//RO/OD/ 727 /2021

09.03.2021

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 for laying iron ore slurry pipeline in the RoW of NH from Pankapal (Dakbangala chhack) to Chandikhol (ch.397+000 to ch.427+400)- reg

Sir,

Please find enclosed herewith a proposal of M/s Thriveni Earthmovers Pvt. Ltd for laying of 800 mm dia iron ore slurry pipeline & 50 mm dia OFC with 02 nos. of crossing at chainage 397+600 (Pankapal) & chainage 425+600 (Subhadrapur, Near Chandikhol) with 1200mm dia steel casing pipe from Pankapal (Dakbangala chhack) to Chandikhol (ch.397+000 to ch.427+400) of Duburi- Chandikhol section of NH-53. The details are as under:

Sl. No.	Chainage		Side	Length (in meter)	Width of RoW required	Location	Remark
	From	To					
1	397+000	397+600	LHS	600	900	Na	800mm dia iron ore slurry pipeline & 50 mm dia OFC with 1200mm dia casing pipe in crossing
2.	397+600	425+600	RHS	28000			
3.	425+600	427+400	LHS	1800			
4.	397+600		Across	90	1200	Pankapal	
5.	425+600					Subhadrapur	

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,

(Dr. Ram Prasad Panda)  
CGM (Tech) & RO- Odisha



# 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

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भारतमाला  
राष्ट्रीय राजमार्ग

BHARATMALA  
ROAD TO PROSPERITY

09.03.2021

NHAI/13011/54//RO/OD/ 726 /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 for laying iron ore slurry pipeline in the RoW of NH from Pankapal (Dakbangala chhack) to Chandikhol (ch.397+000 to ch.427+400)- reg

M/s Thriveni Earthmovers Pvt. Ltd for laying of 800 mm dia iron ore slurry pipeline & 50 mm dia OFC with 02 nos. of crossing at chainage 397+600 (Pankapal) & chainage 425+600 (Subhadrapur, Near Chandikhol) with 1200mm dia steel casing pipe from Pankapal (Dakbangala chhack) to Chandikhol (ch.397+000 to ch.427+400) of Duburi- Chandikhol section of NH-53. The details are as under:

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4.	397+600		Across	90	1200	Pankapal	
5.	425+600					Subhadrapur	

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".

*Handwritten signature and date 09.03.2021*  
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 EARTH MOVERS PRIVATE LIMITED**  
 At-Unchabali, Post-Bamebari, Dist-Keonjhar - 758 086, Odisha

Seeking ROW from Dakabangla Chawk (397.000 Km) to Chandikhol (427.400 Km) on  
 NH-53

**CHECK LIST**

Guideline for Project Directors for processing the proposal for laying of 800mm dia Iron ore  
 Slurry Pipeline along National Highway No. 53

Relevant Circulars

- 1) Ministry Circular No. NH-41 (58)/68 dated 31.1.1969
- 2) Ministry Circular No. NH-III/P/66/76 dated 18/19.11.1978
- 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

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 Plant 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-53 from Dakabangla Chawk (Pankpal) (397.000Km) Chandikhol(427.400Km) by open trench method in general and Horizontal Directional Drilling (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., At: Unchabali, Po: Bamebari, Via: Joda, Dist.: Keonjhar, Odisha - 758086.	
1.2	National highway No.	NH. No - 53	
1.3	State	Odisha	
1.4	Location	Dakabangala Chawk(Pankpal) to Chandikhol	
1.5	Chainage in km	CH-397.000 KM To CH-427.400 KM	
1.6	Length in Meters	30400	
1.7	Width of available ROW	90m	

Resident cum  
Highway Engineer

Team Leader Cum  
Sr. Highway Engineer

Shimshik  
परियोजना निरीक्षक  
PROJECT DIRECTOR  
Banta



	(a) Left side from center line towards increasing chainage/km direction	45m. from Ch397.000 to Ch427.400	
	(b) Right side from centre line increasing chainage/km direction	45m. from Ch397.000 to Ch427.400	
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	attached	
1.12	Numbers of Lanes (2/4/6/8) existing	2- Lane with paved shoulder	
1.13	Proposed number of lanes(2 Lane with paved shoulders/4/6/8 lanes)	4/6 Lane construction work is on progress.	
1.14	Service Road existing or not	NA	
	If yes then which side		
	(a) Left side from centre line		
	(b) Right side from centre line		
1.15	Proposed service road	As per attached drawing	
	(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 after the service Lane of NH in utility corridor	
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		
	(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.	

Resident cum  
Highway Engineer

Project Engineer Cum  
Sr. Highway Engineer

परियोजना निदेशक  
PROJECT DIRECTOR  
भारतीय राष्ट्रीय  
मार्ग निदेशक  
भारतीय राष्ट्रीय  
मार्ग निदेशक





	(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	
	(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 NHAJ 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. Casing pipe material will be of Steel Pipe for carrier pipe and conduit pipe for 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 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 throughout 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 x 1.5m Wide).	Yes, drawing attached.	

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Highway Engineer

Project Reader Cum  
Sr. Highway Engineer

Signature  
PROJECT  
NATIONAL  
Hwy Dept



	(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, chainage, width of ROW, Distance of proposed, cable form 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 at least 90 cm, but not more than 150 cm wider than the outer diameter of the pipe.	Yes, agreed to comply	
	(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	Yes, agreed to comply	

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Project  
Team Leader Cum  
Sr. Highway Engineer





	either side of the trench. Care shall be taken to avoid the formation of a dip at the trench.		
	(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 through CD works and method of laying	CD works is not used for carriageway crossings	
(a)	On approaches, the 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. HI/P/66/78 dated 19.11.1976	Yes, agreed to comply.	
3	Draft license Agreement signed by two witness	Yes.	
4	Performance Bank Guarantee in favour of NHAJ 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 NHAJ to the licence for clearing debris / loose earth.	Yes, agreed for submission	
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 NHAJ Guidelines	Yes agreed for submission.	
5	Affidavit/ Undertaking from the applicant for the following is to be furnished	Yes agreed for submission.	
5.1	Not to Damage to other utilities, if damaged then to pay the losses either to NHAJ or to the concerned agency.	Yes, agreed to comply.	
5.2	Renewal of Bank Guarantee	Yes, agreed to comply.	
5.3	Confirming all standard condition of NHAJ's Guideline	Yes, agreed to comply.	
5.4	Shifting of Iron Ore Slurry Pipeline as and when required by NHAJ at their own cost.	Yes, agreed to comply.	
5.5	Shifting Due to 6 Lanning/Widening of NH	Yes, agreed to comply.	

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Sr. Highway Engineer

परियोजना निदेशक  
PROJECT DIRECTOR  
R. K. Sharma



5.6	Indemnity against all damages and claims clause(xdv)	Yes, agreed to comply.	
5.7	Traffic movement during laying of Iron Ore Slurry pipe line to be managed by the applicant.	Yes, agreed to comply.	
5.8	If any claim is raised by the Concessionaire then the same has to be paid by the applicant.	Yes, agreed to comply.	
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, agreed to comply.	
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 will be borne by the agency owning the line.	Yes, agreed to comply.	
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 to comply.	
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 components and roadway safety for traffic. (ii) For 6 lanning "we do undertake that I will relocate service roads/approach road/utilities at my own cost notwithstanding the permission granted within such time as will be stipulated by NHAI for future 6 lanning or any other development".	Yes, agreed to comply.	
6	Who will sign the agreement on behalf of Iron Ore Slurry Pipeline agency.	Authorized Signatory as appointed by M/s Thriveni Earthmovers Pvt. Ltd. Authorization attached.	
7	Certificate from the project director	Attached	

*Resident cum  
Highway Engineer*

*Project Director Cum  
Sr. Highway Engineer*

*Signature*  
*Signature*  
PROJECT DIRECTOR  
NATIONAL HIGHWAY AUTHORITY  
INDIA





7.1	Certificate for confirming of all standard condition issued vide Ministry Circular No. NH-41(58)/(68), dated 31.1.1989, 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-11037/1/86-001 (2), dated 28/7/1983, Ministry Circular No. RW /N H-1103 7/1/86-001, 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 PO in the following format	Attached	
	(I) "It is certified that any other location of the Iron Ore Slurry Pipeline would be extremely difficult and un reasonable costly and the installation of Iron Ore Slurry pipe line 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 location".		
	(b) In case feasibility report is not available "I do certify that sufficient 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 Licensee 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 up gradation of ..... [Section from KM ..... Of NH No ..... on build ,operate and transfer basis] and therefore, Licensee 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	
10	Who will ensure that the defects in road portion after laying of iron-ore slurry pipeline are corrected and if not	Thriveni Earthmovers Pvt, Ltd. At Unchabali, Post Bamebari, Dist Keonjhar - 758 086, Odisha	

Resident cum  
Highway Engineer

Project Engineer Cum  
Sr. Highway Engineer



	corrected then what action will be taken.		
11	Who will pay the claims for damages done/disruption in working of concessionaire if asked by the concessionaire	Thriveni Earthmovers Pvt. Ltd At Uncheball, Post Barnebari, Dist Keonjhar - 756 086, Odisha	
12	A certificate from PD that he will enter the proposed permission in the register of the records of the permission 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 the records of permissions accorded as maintained by PD then copy be enclosed.	Yes	

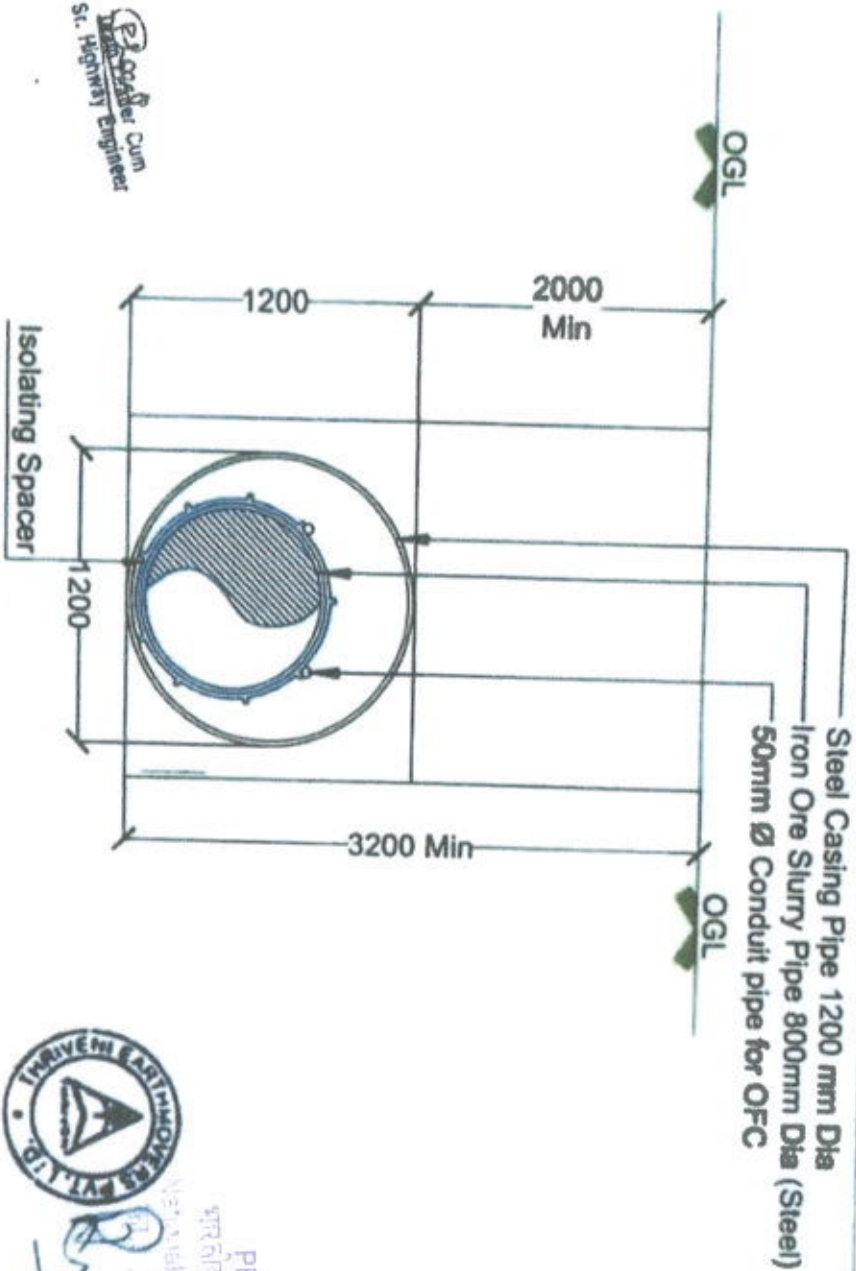
  
Resident cum  
Highway Engineer

  
Sr. Highway Engineer




**P. J. G. Cum**  
**St. Highway Engineer**



**TYPICAL CROSS SECTION SHOWING THE CASING PIPE CROSSING OF ROAD WITH HDD**

NOTES

<sup>1</sup> All dimensions are in mm unless otherwise specified.



परियोजना निदेशक  
PROJECT DIRECTOR  
भारतीय रास्त्रिय रक्षा विभाग

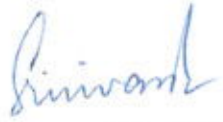
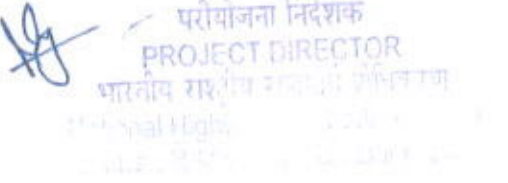
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### Certificate

In compliance of Para 12 of new check list approved by Project Director, the requisite certificate issued as under:

It is certified that it will enter the proposed permission to lay iron ore slurry pipeline by HDD/Manual Trench in the register of records of the permissions in the prescribed Performa.


  
  
परियोजना निदेशक  
PROJECT DIRECTOR  
भारतीय राश्ट्रीय कोयला निगम  
Ministry of Coal, Government of India  
New Delhi



### Certificate

In compliance of Para 7.2 of new check list approved by Project Director, the requisite certificates are issued as under:

"It is certified that any other location of the iron ore slurry pipeline would be extremely difficult and unreasonable costly and the installation of Iron ore slurry 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".

  
परियोजना निदेशक  
PROJECT DIRECTOR  
भारतीय राष्ट्रीय राजमार्ग निदेशक  
National Directorate of Highway of India  
प.को.इ. दिल्ली-११००११, भारत