



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

फैक्स/Fax : +91-674-2361770

ई-मेल /e-mail : roodisha@nhai.org

ronhaiodisha@gmail.com

वेबसाइट/Website : http://www.nhai.org



NHAI/13011/54//RO/OD/ 551 /2021

22.02.2021

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, return water supply pipeline & OFC in the RoW of NH from Duburi to Pankapal on NH-53 from chainage 389+200 to 397+950- Reg

Sir,

Please find enclosed herewith a proposal of M/s Essar Minmet Ltd for laying of 508 mm dia 02 nos. of iron ore slurry pipeline, 457.2mm dia return water supply pipeline & 50 mm dia OFC with 01 no of crossing at chainage 389+600 at Duburi of NH-200 (New NH-53).The details are as under:

Sl. No.	Chainage		Side	Length (in meter)	Width of RoW required	Location	Remark
	From	To					
1	389+200	389+600	LHS	400	1800	NA	508mm dia 02 nos. of iron ore slurry pipeline, 457.2mm dia return water supply pipeline & 50 mm dia OFC.
2.	389+600	397+950	RHS	83500			
3.	389+600		Across	90		Duburi	

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, NHA, Regional Office, Odisha, Bhubaneswar.

Yours faithfully,

22.02.2021
(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)

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301-A, 3rd Floor, Pal Heights, Plot No : J/7, Jayadev Vihar
Bhubaneswar- 751013, Odisha

NHAI/13011/54//RO/OD/550 /2021

22.02.2021

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, return water supply pipeline & OFC in the RoW of NH from Duburi to Pankapal on NH-53 from chainage 389+200 to 397+950- Reg

M/s Essar Minmet Ltd has submitted a proposal for laying of 508 mm dia 02 nos. of iron ore slurry pipeline, 457.2mm dia return water supply pipeline & 50 mm dia OFC with 01 no of crossing at chainage 389+600 at Duburi of NH-200 (New NH-53). The details are as under:


Sl. No.	Chainage		Side	Length (in meter)	Width of RoW required	Location	Remark
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2	389+600	397+950	RHS	83500			
3.	389+600		Across	90		Duburi	

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".


22-02-2021
CGM (Tech) & RO- Odisha
National Highways Authority of India,
Regional Office, Odisha
301-A, 3rd Floor, Pal Heights,
J/7, Jayadev Vihar, Bhubaneswar 751013

ESSAR MINMET LIMITED

Corporate office: Essar House, 11 K.K.Marg, Mahalaxmi, Mumbai - 400 0034, Maharashtra
Bhubaneswar office : Plot No. 687/2428, Jayadev Vihar, Po. IRC Village, Bhubaneswar - 751 015, Odisha

REVISED CHECK LIST

Guideline for Project Directors for processing the proposal for laying of 508 mm. dia two Iron Ore Pipeline, One 457.2 mm. dia return water pipe line along with 50 mm. dia Optical Fiber Cable along National Highway No. 53, (revised to NH No. 200)


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-33044/29/202015 S&R* dated 22.11.2016

CHECK LIST FOR APPROVAL FOR LAYING OF IRON ORE SLURRY PIPELINE, RETURN WATER PIPELINE & OPTICAL FIBER CABLE LINE ALONG NH.		
Sl.No.	Item	Information
		Status Remarks



Team Leader cum
Sr. Highway Engineer




PROJECT DIRECTOR
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India
प. का. 5 देकनाल / PIU Dhankanal

1	General Information	Essar Minmet Ltd proposes to set up a green field Pelletisation Complex in the state of Odisha for a total capacity of 14 MTPA including Beneficiation Plant near the iron ore mines and pellet plant which as port based and a slurry pipeline connecting the Beneficiation Plant and the Pellet Plant for transportation of concentrate in the form of iron ore slurry, each of the plant having capacity of 14 MTPA. thus seeking Permission for laying 508 mm. dia 2 no of Iron Ore Slurry Pipeline, 457.2 mm. dia 1 no of return water pipe line along with 50 mm. dia Optical Fiber Cable along National Highway No.53, (revised to NH No.200) from Duburi(CH-389.200 KM. to Pankapal(CH-397.950 KM. by open trench method in general and Horizontal Directional Drilling (HDD.) method at specific location like River, bridge, canal, road, railway...etc. and places where locational constrain exit.
1.1	Name and Address of the Applicant / Agency	ESSAR MINMET LIMITED Plot No. 687/2428, Jayadev Vihar, Po. IRC Village, Bhubaneswar - 751 015, Odisha
1.2	National highway No.	NH. No - 53 (revised to NH. No. 200)
1.3	State	Odisha
1.4	Location	Duburi to Pankapal
1.5	Chainage in km	CH- 389.200 KM. To CH- 397.950 KM
1.6	Length in Meters	8750m
1.7	Width of available ROW	In General more than 10 m.
	(a)Left side from center line towards increasing chainage/km direction	Left side from CH -389.200 km (Duburi) to 389.600 km (Kalinga nagar tata boundary) i.e. 0.400 km.
	(b)Right side from centre line increasing chainage/km direction	Right side from CH -389.600 km (Duburi) to 397.950 km (Kalinga nagar tata boundary) i.e. 8.350 km.
1.8	Proposal to lay underground electric cable	No, Electrical cable laying involved
	(a)Left side from center line towards increasing Chainage /km Directions	Not applicable




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 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
 National Highways Authority of India
 New Delhi, India


 Team Leader cum
 Sr. Highway Engineer

	(b) Right Side From center line towards increasing chainage/km direction.	Not applicable	
1.9	Proposal to acquire land	Right to use of NH RoW as per P & MP Act. Is required for laying the Iron Ore Pipeline, return water pipe line along with Optical Fiber Cable (industrial corridor) along / across the NH RoW.	
	(a) Left side from center line	Left side	
	(b) Right side from center line	Right side	
1.10	Whether Proposal is in the same side where land is not to be acquired	Right to use of NH RoW as per P & MP Act. Is required for laying the Iron Ore Pipeline, return water pipe line along with Optical Fiber Cable (industrial corridor) along / across the NH RoW.	
	If not then where to lay the cable	Not applicable	
1.11	Details of already laid services, if any along the proposed route	NHAI to Intimate	
1.12	Numbers of Lanes(2/4 /6/8) existing	Existing 2 lanes	
1.13	Proposed number of lanes(2 Lane with paved shoulders/4/6/8 lanes)	NHAI to Intimate	
1.14	Service Road existing or not	NO	
	If yes then which side		
	(a) Left side from center line		
	(b) Right side from center line		
1.15	Proposed service road	NHAI to Intimate	
	(a) Left side from center line		
	(b) Right side from centerline		
1.16	Whether proposal to Lay water supply pipe line is after the service road or between the service road and main carriageway.	Proposal is to lay Iron Ore slurry pipe line, return water pipe line and optical fiber cable line along to NH RoW.	



Signature
PROJECT DIRECTOR

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India
एन.एच.ए.ओ. / PIU Dhenkanal

Signature
Team Leader cum
Sr. Highway Engineer

Signature

1.17	<p>The permission for laying of water supply pipe line shall be considered for approval /rejection based on the Ministry circular mentioned as avobe</p> <p>(a) Carrying of sewage /gas pipeline on highway bridges shall not be permitted as furnues/gases pipes can accelerate the process of corrosion or may cause explosion ,thus,being much more injurious than leakage of water.</p> <p>(b) Carrying of water 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 tfme 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.</p> <p>(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.</p>	Yes, Iron Ore slurry pipe line, return water pipe line and optical fiber cable line to be considered	




Gimanshu
 PROJECT DIRECTOR
 भारतीय विद्युत प्राधिकरण
 राष्ट्रीय राजमार्ग निगम
 राष्ट्रीय राजमार्ग निगम (एन.एच.एल.)
 National Highway / NH
 देहात, दिल्ली

Pooja
 Sr. Highway Engineer

	(d) 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.		
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.	Not applicable	
	(a) Existing drainage structure shall not be allowed to carry the lines.	As above	
	(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 15 meter. What is the distance from the existing structures?	Not applicable	
	(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.	Not applicable	
	(e) Ends of the casing/conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.	Not applicable	




 PROJECT DIRECTOR
 NATIONAL HIGHWAYS AUTHORITY
 राष्ट्रीय राजमार्ग प्राधिकरण




 Team Leader cum
 Sr. Highway Engineer

	(f) The Casing pipe should, as minimum extend from drain to drain in cuts and toe slope in the fills.	Yes	
	(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.	Not applicable	
	(h) Crossing shall be by boring method (HDD) specially where the existing road pavement is of cement concrete or dense bituminous concrete type.	Not applicable	
	(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.	Not applicable	
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 1.2m deep x 1m wide).	Yes	
	(i) Should not be greater than 80 cm. Wider than the outer diameter of the pipe.	Not applicable	
	(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.	Not applicable	
	(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.	Not applicable	




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 National Highways Authority of India


 Sr. Highway Engineer

	(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.	Not applicable	
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 pipe line, return water pipeline and Optical fiber cable, chainage, width of ROW, Distance of proposed, cable form the edge of ROW, important mile stone, intersections, cross drainage works etc.	Yes	
2.4	Methodology for laying of Showing Iron Ore Slurry pipe line, return water pipeline and Optical fiber cable line	In general slurry pipe line, water pipe lines and OFC lines along NH will be laid through Open Trench Method, however crossing will be done through HDD (Horizontal Directional Drilling), Augar Boring, Box Pushing method for laying slurry pipe line, water pipe lines and OFC 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 trench.	Agreed	
	(a) The Trench width should be atleast 30 cm. but not more than 100 cm. wider than the outer diameter of the pipe.	Agreed	
	(b) For filling of the trench, bedding shall be to a depth of not less than 30 cm. It shall consist of granular material; free of lumps, clods and cobbles and graded to yield Unsuitable soil and rock edged should be excavated and replaced by selected material.	Agreed	





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 National Highway Authority of India


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 National Highway Authority of India


 Sr. Highway Engineer

	(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.	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 be permitted.	Agreed	
	(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.	Agreed	
	(f) The excavation shall be protected by flagman, signs and barricades and red light during night hours.	Agreed	
	(g) If required a diversion shall be constructed at the expenses of agency owning the utility line.	Agreed	
2.4.2	Horizontal Directional Drilling(HDD) Method	Methodology attached	
2.4.3	Laying of Iron Ore Slurry pipe line, return water pipeline and Optical fiber cable through CD works and method of laying		




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 National Highway Authority
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 National Highway Authority


 Sr. Highway Engineer

(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. NH-HI/P66/78 dated 19.11.1976	
3	Draft licence Agreement signed by two witness	Agreed
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 licencee for clearing debris / loose earth.	To be submitted as and when intimated by NHAI.
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	Yes
5	Affidavit/ Undertaking from the applicant for the following is to be furnished:	Yes, Enclosed


[Signature]

PROJECT DIRECTOR
 PROJECT & Planning Authority for
 National Highway (NH) DU
 New Delhi



[Signature]
 Team Leader cum
 Sr. Highway Engineer

5.1	Not to Damage to other utilities, 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	
5.4	Shifting of Iron Ore Slurry pipe line, return water pipeline and Optical fiber cable As and When Required By NHAI At their own cost.	May not be applicable as the pipeline is to be laid along the NH RoW by HDD method at a depth of min. 3.0 meters from NH surface.	The design has already submitted as per drawing.
5.5	Shifting Due to 6 Lanning/Widening of NH	May not be applicable as the pipeline is to be laid along the NH RoW by HDD method at a depth of min. 3.0 meters from NH surface.	vide email
5.6	Indemnity against all damages and claims clause(Xxiv)	Yes	
5.7	Traffic movement during laying of Iron Ore Slurry pipe line, return water pipeline and Optical fiber cable 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 Iron Ore Slurry pipe line, return water pipeline and Optical fiber cable Located in the National Highway right of ways.	Yes	


 PROJECT DIRECTOR
 भारतीय राष्ट्रीय राजमार्ग प्रधिकरण
 National Highway Authority India
 400025




 Team Leader cum
 Sr. Highway Engineer

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 pipe line, return water pipeline and Optical fiber cable will be borne by the agency owning the line.	May not be applicable as the pipeline is to be laid along the NH RoW by HDD method at a depth of min. 3.0 meters from NH surface.	The agency was signed and Submitted undertaking
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.	May not be applicable as the pipeline is to be laid along the NH RoW by HDD method at a depth of min. 3.0 meters from NH surface.	vide e-mail dt. 02.02.21.
5.12	Certificate from the applicant in the following format (i) Laying Of water supply pipe line will not have any deleterious effects on any of the bridge component 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 not with standing the permission granted within such time as will be stipulated by NHAI for future 6 lanning or another development".	Agreed	
6	Who will sign the agreement on behalf of Iron Ore Slurry pipe line, return water pipeline and Optical fiber cable agency	Director Projects Essar Minmet Limited. Delegation of Power to Mr PC Mohapatra is enclosed	Mr. PC Mohapatra
7	Certificate from the project director		



परियोजना निदेशक
PROJECT DIRECTOR
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India
ए.के.के. देवनाथ / PIU Dhenkanal

Team Leader/ Cult.
Sr. Highway Engineer

7.1	<p>certificate for confirming of all standard condition issued vide ministry circular no. NH-41(58)/(68) Dated 31.01.1969 ,Ministry circular no.NH-3/P/66/76 Dated 18/19.11.1976,Ministry circular no.RW/NH-3/p/66/76 dated 11.05.1982,Ministry circular no RW/NH-11037/1/86-DOI (II)Dated 28.07.1993 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 S&R (B) dated 17.09.2003.</p>	Yes	
7.2	<p>Certificate from PD In the following format (I) "It is certified that any other location of the Iron Ore Slurry pipe line, return water pipeline and Optical fiber cable would be extremely difficult and un reasonable costly and the installation of Iron Ore Slurry pipe line, return water pipeline and Optical fiber cable within ROW will not adversely affect the design stability and traffic safety of (II) For 6-lanning</p>	Yes	




Prasad
Tejashree Kumar
Sr. Highway Engineer

Prasad
परियोजना निदेशक
PROJECT DIRECTOR
भारतीय राष्ट्रीय राजमार्ग प्रा. अ. प्रा. लि.
National Highway Authority of India
प. का. 3 देहनाल / PIU Dhenkal

	<p>(a) Where feasibility is available "I do certify that there will be no hindrance to proposed 6 laning based on the feasibility report considering proposed structures at the said location".</p>	
	<p>(b) In case feasibility report is not available "I do certify that sufficient ROW Is available at site for accommodating proposed 6 laning".</p>	
8	<p>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 KMOf NH No..... on build ,operate and transfer basis] and therefore ,Licensee Shall honour the same".</p>	<p>Yes, Inserted in the agreement</p>


~~Team Leader~~ cum
Sr. Highway Engineer




परियोजना निर्देशक
PROJECT DIRECTOR
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India
ए. एन. ई. टॉवर/एल / पी. यू. डिस्कानल



9	Who will supervise the work of laying Iron-ore slurry pipeline.	Essar Minmet Limited	
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.	Essar Minmet Limited	
11	who will pay the claims for damages done/disruption in working of concessionaire if asked by the concessionaire.	Essar Minmet Limited	
12	A certificate from PD that he will be enter the proposed permission in the register of the records of the permissions in the prescribed proforma(copy enclosed).	Yes	Essar Minmet Limited. will agree for the same as per requirement of NHAI
13	If any Previous approval is accorded for laying of underground Iron Ore Slurry pipe line, return water pipeline and Optical fiber cable then photocopy of register of the records of permissions accorded as maintained by PD then copy be enclosed.	No	Essar Minmet Limited will agree for the same as per requirement of NHAI

ESSAR MINMET LIMITED



[Signature]
Authorised signatory

[Signature]
परियोजना निर्देशक *[Signature]*
PROJECT DIRECTOR
भारतीय राष्ट्रीय राजमार्ग निदेशक
National Highway Authority of India
प.का.इ. बंगलौर / PIU Director