



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, 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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सत्यमेव जयते

NHAI/13011/54/RO/OD/ 3087 /2022

27.09.2022

To

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

Sub: Laying of two nos. of 20" dia. Iron Slurry Pipeline along with OFC & Power cable across NH-520 at Km 187+205 (Near Bhadrasahi Village) & Km 200+150 (Near Rugudi) and along NH-520 from Km 187+205 to Km 200+150 (RHS) in Keonjhar district by M/s Arcelor Mittal- Nippon Steel Pvt Ltd- Reg

Sir,

Please find enclosed herewith a proposal of M/s ArcelorMittal-Nippon Steel India Ltd for laying of two nos. of 20" dia. Iron Slurry Pipeline along with (40mm) OFC & Power cables along 1400mm wide of Utility Corridor of NH-520 from Km 187+205 to Km 200+150 (RHS) for transportation of iron ore slurry. The details is as under:

Sl. No.	Chainage		Side	Length (m)	Width of Corridor (mm)	Remarks
	From	To				
1	187+205		Across	60	1700mm	2 nos of 26" dia Casing pipe for 20" dia carrier pipe along with 150mm Conduit pipe for 40 mm dia OFC.
2	107+205	200+150	RHS	12945	2 nos of 20" dia Iron Slurry pipeline along with 40mm OFC & Power cable.	2 nos of 20" dia Iron Slurry pipeline along with 40mm OFC & Power cable.
3	200+150		Across	60	1700mm	2 nos of 26" dia Casing pipe for 20" dia carrier pipe along with 150mm Conduit pipe for 40mm dia OFC.

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,

(D.K. Patra)
Manager (Tech)



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार))
National Highways Authority of India
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27.09.2022

NHAI/13011/54/RO/OD/ 3086 /2022

INVITATION OF PUBLIC COMMENTS

Sub: Laying of two nos. of 20" dia. Iron Slurry Pipeline along with OFC & Power cable across NH-520 at Km 187+205 (Near Bhadrasahi Village) & Km 200+150(Near Rugudi) and along NH-520 from Km 187+205 to Km 200+150 (RHS) in Keonjhar district by M/s Arcelor Mittal- Nippon Steel Pvt Ltd- Reg

M/s ArcelorMittal-Nippon Steel India Ltd has submitted a proposal for laying of two nos. of 20" dia. Iron Slurry Pipeline along with(40mm) OFC & Power cables along 1400mm wide of Utility Corridor of NH-520 from Km 187+205 to Km 200+150 (RHS) for transportation of iron ore slurry. The details are as under:

Sl. No.	Chainage		Side	Length (m)	Width of Corridor (mm)	Remarks
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2	187+205	200+150	RHS	12945	2 nos of 20"dia Iron Slurry pipeline along with 40mm OFC & Power cable.	2 nos of 20"dia Iron Slurry pipeline along with 40mm OFC & Power cable.
3	200+150		Across	60	1700mm	2 nos of 26"dia Casing pipe for 20" dia carrier pipe along with 150mm Conduit pipe for 40mm dia OFC.

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".

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

CHECK - LIST

Guidelines For Project Directors for processing The Proposal For Laying of 20" Dia Slurry pipeline along with 20mm OFC and 20mm Power Cable across NH-215(New NH-520) at Km 187+205 & Km 200+150 and along NH-215(New NH-520) from Km 187.205 to Km 200+150 vested with NHA.

Relevant Circulars:

1. Ministry Circular No.NH-41 (58)/68 Dated 31-01-1969
2. Ministry Circular No.HN-III/P/66/76 Dated 18/19 -11-1976
3. Ministry Circular No.RW/NJ-111/P/66/76 Dated 01-05-1982
4. Ministry Circular No.RW/NH-11037/1/86-DOI(II) Dated 28 -07-1993
5. Ministry Circular No.RW/NH-11067/1/86-DOI Dated 19-04-1995
6. Ministry Circular No.RW/NH-34066/2/95/S&S Dated 25-10-1999
7. Ministry Circular No.RW/NH-34066/7/2003 S&R Dated 17-09-2003
8. Ministry Circular No.RW/NH-33044/29/2015/ S&R(R) dt.22nd November 2016

Check list for getting approval for laying of Slurry Pipeline along with OFC&PowerCable on NH land

S.NO	ITEM	INFORMATION/STATUS	REMARKS
1	General Information	ArcelorMittal-Nippon Steel India Limited proposes to lay two 20" Dia. Iron ore slurry pipeline along with OFC & Power Cable, across NH-520 at Km 187+205(Near Bhadrasahi village) & Km 200+150(Near Rugudihi Village) and along NH-520 from Km 187+205 to Km 200+150(from Bhadrasahi to Rugudihi village) in Keonjhar & Sundargarh districts.	
1.1	Name And Address Of The Applicant	ArcelorMittal-Nippon Steel India Ltd. A-3, Fortune Tower, Bhubaneswar, Odisha 751003	
1.2	National Highway Number	NH-215 (New NH 520)	
1.3	STATE	Odisha	
1.4	Location	Bhadrasahi to Rugudihi village.	
1.5	Chainage in Km	1.Across: Km 187+205 & Km 200+150 2.Along: Km 187+205 to Km 200+150	
1.6	Length in Metres	12945 meters	
1.7	Width Of Available Road Of NHA Land		
	(a) Left Side From Centre Line (Towards Increasing Chainage/KM Direction)	09 Meter	
	(b) Right Side From Centre Line (Towards Increasing Chainage/KM Direction)	09 Meter	
1.8	Proposal To Lay underground Gas/Slurry/Water pipeline/Electrical Cable	Laying two nos of 20"Dia Iron Slurry Pipeline with OFC & Power Cable along & across NH-215(New NH-520)	
	(a) Left Side From Centre Line (Towards Increasing Chainage/KM Direction)	NA	
	(b) Right Side From Centre Line (Towards Increasing Chainage/KM Direction)	Right Side from Km 187+205 to Km 200+150.	
1.9	Proposal To Acquire Land	NO	
	(a)Left Side From Centre Line	NO	
	(b)Right Side From Centre Line	NO	
1.10	Whether Proposal is in The Same Side Where Land Is Not To Be Acquired	YES	

परियोजना निदेशक
PROJECT DIRECTOR

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National Highways Authority's of India
ज.इ. राउरकेल / PIU, Rourkela



	If Not Then Where To Lay The Water Pipeline	NA	
1.11	Details Of Already Laid Service, If Any Along The Propose Route	Attached	Annexure-A
1.12	Number Of Lanes (2/4 or 6/8)Existing	4 Lanes with paved shoulder.	
1.13	Proposed Number of Lanes (2 Lanes With Paved Shoulders)	NA	
1.14	Service Road (Existing or Not)Y/N If Then Which Side	Yes(At service road stretches utility to be laid beyond ROW)	Annexure-B

	(a)Left Side From Centre Line (Width)	7meters	
	(b)Right Side From Centre Line (Width)	7meters	
1.15	Proposed Service Road	NO	
	(a)Left Side From Centre Line (Width)	NA	
	Right Side From Centre Line (Width)	NA	
1.16	Whether Proposal To lay Gas/Slurry/Water Pipeline is after the service road or between the service and main carriageway	After the Service Road, in the Utility Corridor.	
1.17	The permission for laying of Gas/Slurry/Water pipeline shall be considered for approval/rejection based on the ministry circular mentioned as above	Yes Agreed.	
	(a) Carrying of sewage/gas pipelines on highway bridge shall not be permitted as fumes/gases pipes can accelerate the process of corrosion or may cause explosions,thus,being much more injurious	Yes, Agreed.	
	(b)Carrying of Slurry pipelines on bridges Shall also be discourage(d) However, if the Slurry supply authorities seem to have no other viable alternative and approach the highway well in time before the design of the bridge is finalized permitted to carry the pipeline on the independent superstructure, supported on extended portion of piers and abutment in such a manner that in the final arrangement enough free space around the superstructure of bridge remains available for inspection and repairs, etc	Yes, Agreed	
	(c) Cost of required extension of the substructure as well as that of the supporting superstructure is borne by the agency in charge of the utilities.	NA	
	(d) Services are not being allowed indiscriminately on the parapet/any part of the bridge, safety of the bridge has to be kept in view while permitting various services along bridge. Approval is to be accorded in this regard with the concurrence of the ministry's Project Chief Engineers only.	NA	
1.18	If crossing of the road involved If yes, it shall be either encased in pipes or through structures or conduits specially built for that purpose at the expenses of the agency owning the line.	Yes	
	(a)Existing Drainage Structure Shall not be allowed to carry the line	Yes, agreed to comply	
	(b) is it on a line normal	Yes	

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National Highways Authority of India
C-1, ग.इ. बसस्टैंड, (D.H.) Rourkel
Crossing by
HDD Method.



	(c) Crossing shall not be too near the existing structure on the National Highway, the minimum distance being 15 meter, what is the distance from the existing structures.	Distance from the nearest existing structures is more than 15 meter.	
	(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 concert having adequate strength and be large enough to permitted ready withdrawal of the carrier pipe/cable.	Yes, agreed to comply	

	(e)End of the casing/conduit pipe line shall be Sealed from outside, so that it does not act As a drainage path.	Yes, agreed to comply	
	(f)The casing/conduit pipe shall be sealed From drain to in cuts and line 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 invert.	Yes, agreed to comply	
	(h)Crossing shall be by boring method (HDD) Especially where the existing road pavement is of cement concrete or dense bituminous concrete type.	Yes, Crossing will be done by HDD method.	
	(i)The casing/conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent formation of a waterway along it.	Yes, agreed to comply	
2.0	Document/Drawing enclose with the proposal	Yes, Drawings, Documents enclosed.	
2.1	Cross section showing the size of the trench for open trench method (it is normal size of 1.2 deep x 0.3 m wide)	Not normal size but as per drawing attached.	
	(i)Should not be greater than 60 cm wider than the outer diameter of the pipe	Yes, agreed to comply	
	(ii)Located as close to the extreme edge of the right of way as possible but not less than 15 meter from the centre line of the nearest carriage way.	Yes, agreed to comply	
	(iii)Shall not be permitted to run along the National Highway when the road formation is situated in double cutting nor shall these be laid over existing culverts and bridges.	Yes, agreed to comply	
	(iv)These should be also 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 the pit and location of cable for HDD method.	Enclosed	<p>परियोजना निदेशक PROJECT DIRECTOR भारतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highways Authority of India न. ग. इ. राउरकेला, BIL, Rourkela</p>
2.3	Strip plan/route plan showing slurry pipeline , Chainage, width of ROW , distance of proposed cable from the edge of ROW , important mile stone , intersection , cross drainage work etc.	Enclosed	
2.4	Methodology for laying of slurry pipeline	Enclosed.	

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	Open trenching method (may be allowed in the utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type if yes, methodology or refilling of trench.	Yes	
	(a)The trench width should be at least 30 cm but not more than 60 cm wider than the outer diameter of the pipe.	Yes	
	(b)For filling of trench, bedding shall be to a depth of 30 cm. it shall consist of granular material free of lumps clods and cobbles and graded to yield a firm surface without sudden changes in the bearing value. Unsuitable soil and rock edges should be excavated and replaced by selected materials	Yes	
	(c)The backfill shall be completed in two stages		

	(i)Side fill the level of the top of the pipe and	Yes.	
	(ii)Overfill to the bottom of the road crust.	Yes.	
	(d)The side fill shall consist of granular Material laid in 15 cm layers each consolidated By mechanical tampering and controlled Addition of moisture of 90% of the proctor's Density as the materials that had been removed Consolidation by saturation or pending will not	Yes.	
	(e)The road crust shall be built to the same Strength as the existing crust on the either side of trench care shall be taken to avoid formation of dip at the trench.	Yes.	
	(f)The excavation shall be protected by flagman, signs and barricades, red lights during the night hours.	Yes.	
	(g)If required, a diversion shall be constructed at the expenses of the agency owning the utility line.	Yes.	
2.4.2	Method of Laying Slurry/Gas pipeline	Open trenching method for along and cased crossing by HDD method for crossing.	
2.4.3	Laying of Slurry pipeline through CD Work and method laying.	At all CD work locations HDD method will be adopted.	
	(a)Open approaches the water mains/cables Shall be carried along a line as close to the edge Of the right of the way as possible up to a distance of 30 m from the bridge and subject to all other stipulation contained in the ministry's guidelines issued with letter NH-HI/66/76 dated 19-11-1976	Yes, agreed to comply	
3	Draft Licence agreement signed by two witness	Yes, Submitted	
4	Performance bank guarantee in favour of NHAI has to <u>obtained@RS.50/-per running meter</u> (parallel to NH) and RS.1,00,000 per crossing of NH , for a period of one year initially (extendable if required till satisfactorily completion of work) as a security for ensuring/making good the excavated trench for laying the cable/duct by proper filling and compaction, clearing debris/loose earth produced	Yes, agreed for submission of Performance BG as per latest MoRTH/NHAI guidelines.	

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National Highways Authority of India
राजमार्ग विकास विभाग, राउरकेला, झारखण्ड
PIU, Rourkela

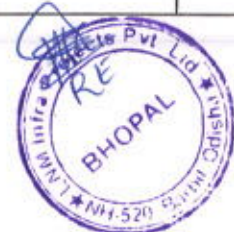


	due to executing of trenching at least 50 m away from the edge of the right of way no payment shall be payable by NHAI to the license for clearing debris/loose earth		
4.1	Performance BG as per above to be obtained	Yes, agreed for submission	
4.2	Confirmation of BG has been obtained as per NHAI guidelines.	Yes, will be obtained after submission of BG	
5	Undertaking from the applicant	Yes, agreed and submitted	
5.1	Not to damage to the other utility, if damaged then to pay the loses either to NHAI or to the concerned agency	Yes, agreed to comply & submitted undertaking.	
5.2	Renewal of bank guarantee.	Yes, agreed to comply & submitted undertaking.	
5.3	Confirming all standard condition of NHAI's guidelines	Yes, agreed to comply & submitted undertaking.	
5.4	Shifting of Water pipeline as and when required by NHAI at our own cost.	Yes, agreed to comply & submitted undertaking.	
5.5	Shifting due to 6 Lanning/widening of NH.	Yes, agreed to comply & submitted undertaking.	

5.6	Indemnity against all damages and claim clause(XXIV)	Yes, agreed to comply & submitted undertaking.	
5.7	Traffic movement during laying of Water pipeline to be managed by the applicant.	Yes, agreed to comply & submitted undertaking.	
5.8	If any claim is raised by the concessionaire then the same has to be paid by the applicant.	Yes, agreed to comply & submitted undertaking.	
5.9	Prior approval of the NHAI to be obtained Before undertaking any work of the installation, shifting or repairs, or alterations to the water pipelines located in the National Highway right of way.	Yes, agreed to comply & submitted undertaking.	
5.10	Expenditure, if any incurred by NHAI for repairing Any damage cause to the National Highway by laying, maintenance or shifting of the slurry pipeline will be borne by the agency owning the line.	Yes, agreed to comply & submitted undertaking.	
5.11	If the NHAI consider it necessary to move the utility line for any work of improvement or repair of the road, it will be carried out as desired by the NHAI or 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 & submitted undertaking.	
5.12	Certificate from the applicant in the following format :	Yes, agreed to comply & submitted undertaking.	
	(i) Laying of slurry pipeline will not have any deleterious effects on any of the bridge components and roadway safety for traffic.		
	(ii)for 4 lanning "we do undertake that i will relocate service road/approach road/utility at my own cost notwithstanding the permission granted within such		

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National Highways Authority of India
बि.प्र.इ. राउरके / PIU, Rourkela

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	time as well as be stipulated by NHA" for future six – lanning or any development.		
6	Who will sign the agreement on behalf of slurry pipeline agency?	Authorised Signatory as appointed by ArcelorMittal and Power of Attorney attached.	
7	Certificate from the Project Director	Attached	
7.1	Certificate for confirming of all standard condition issued vide ministry circular NO.NH41 (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	Yes, Attached	

7.2	Certificate From PD In the following format:(i) It is to certify that any other location of the slurry pipeline would be extremely difficult and unreasonably costly and the installation of slurry pipeline with in ROW will not adversely affect the design , stability and traffic safety of the highway nor the likely future improvement such as widening of carriageway easing of curves etc.	Attached	
	(ii) for 6 Lanning		
	(a)Where is feasibility available " I do certify That there will be no hindrance to propose six Lanning based on the feasibility report considering proposed structure at the site location"		
	(b) In case feasibility Report is not available – " I do certify that sufficient ROW is available At site for accommodating proposed six		
8	If NH section proposed to be taken up by NHA on BOOT basis –a clause is to be inserted In the agreement" the permitted highway on which license has been granted to lay slurry pipeline cable/duct has also been granted as right to way to the concessionaire under the concession agreement may likely to be handed over to the concessionaire for up gradation of (..... section from km.... to km..... of NH no..... on built, operate and transfer Basis) and therefore, the concessionaire shall honour the same.	Not Applicable	

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9	Who will supervise the work of laying of slurry Pipeline.	M/s ArcelorMittal As per the direction of the NHAI Authority.	
10	Who will ensure , that the defects in road Portion after laying of slurry pipeline are Corrected and if not corrected the what action Will be taken.	As NHAI Authority would instruct accordingly the Company ArceloMittal shall comply.	
11	Who will pay the claims for damage done /disruption in working of concessionaire if Asked by the concessionaire.	Arcelor Mittal	
12	A certificate from PD that he will enter the proposed Permission in the register of records of the permission in the prescribed Performa (copy enclosed)	Yes, Attached	
13	If any previous approval is accorded for of underground Slurry pipeline then photo copy of register of records of permission accorded as maintained by PD then copy enclosed.	NO	



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