



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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NHAI/13011/54//RO/OD/ 245 /2021

25.01.2021

To

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

Sub: Request for approval of RoW for laying of Iron Ore Slurry Pipeline & Return Water Pipeline in NH-520 Utility corridor from chainage 185.000 to Km.215.000 (TATA DAV to Koira) for Iron Ore transportation to integrated Steel Plant near Kharagpur area-Reg

Sir,

Please find enclosed herewith a proposal of M/s Orissa Metaliks Private Limited for laying 660 mm dia Iron Ore Slurry Pipeline, 508 mm return water pipeline & 65 mm dia OFC Conduit in between both pipes from Km.185.000 to Km.215.000 (TATA DAV to Koira) of NH-520 for Iron Ore transportation to integrated steel plant near Kharagpur area. The details are as under:

| SI No. | Description | Stretch | NH No. | Chainage | Width of Utility Corridor | RHS/LHS |
|--------|--|-----------------|---------------------|--------------------------|---------------------------|---------|
| 1. | Laying 660 mm dia Iron Ore Slurry Pipeline, 508 mm return water pipeline & 65 mm dia OFC Conduit in between both pipes along NH-215 (New NH-520) | Rimuli-Koida | NH-215 (New NH-520) | Km.185.000 to Km.201.600 | 1468 mm | RHS |
| | | | | Km.201.600 to Km.204.700 | 1000 mm | |
| | | | | Km.204.700 to Km.206.200 | 1468 mm | |
| | | | | Km.206.200 to Km.208.800 | 1468 mm | |
| 2. | | Koida-Rajamunda | | Km.208.800 to Km.212.200 | 1000 mm | |
| | | | | Km.212.200 to Km.215.000 | 1468 mm | |

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.

Yours faithfully,

(Signature)

(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
एकरी की राह का आनंद



BHARATMALA
ROAD TO PROSPERITY

NHAI/13011/54//RO/OD/ 244 /2021

25.01.2021

INVITATION OF PUBLIC COMMENTS

Sub: Request for approval of RoW for laying of Iron Ore Slurry Pipeline & Return Water Pipeline in NH-520 Utility corridor from chainage 185.000 to Km.215.000 (TATA DAV to Koira) for Iron Ore transportation to integrated Steel Plant near Kharagpur area-Reg

M/s Orissa Metaliks Private Limited has submitted a proposal laying 660 mm dia Iron Ore Slurry Pipeline, 508 mm return water pipeline & 65 mm dia OFC Conduit in between both pipes from Km.185.000 to Km.215.000 (TATA DAV to Koira) of NH-520 for Iron Ore transportation to integrated steel plant near Kharagpur area. The details are as under:

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|--------|--|-----------------|------------------------|--------------------------|---------------------------|---------|
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| | | | | Km.201.600 to Km.204.700 | 1000 mm | |
| | | | | Km.204.700 to Km.206.200 | 1468 mm | |
| 2. | | Koida-Rajamunda | | Km.206.200 to Km.208.800 | 1468 mm | |
| | | | | Km.208.800 to Km.212.200 | 1000 mm | |
| | | | | Km.212.200 to Km.215.000 | 1468 mm | |

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**

[Signature]
25-01-2021
**Chief General Manager (Tech) & RO
National Highways Authority of India,
Regional Office, Odisha
301-A, 3rd Floor, Pal Heights,
J/7, Jayadev Vihar, Bhubaneswar 751013**

Orissa Metaliks Private Limited

Garstin Place, Orbit House, 3rd Floor, Room No. 3B, Kolkata - 700001, India

Seeking ROW from TATA DAV (185.000 Km) through Bhadrasahi to KOIRA (215.000 Km) on NH-215 (Revised NH-520)

CHECK -LIST

Guidelines for Project Directors for processing the proposal for laying of 660mm dia Iron Ore Slurry Pipeline & 508mm dia Return water pipeline along NH-215 (Revised Name NH-520)

Relevant Circulars

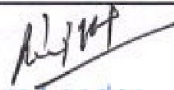
- 1) Ministry Circular No. NH-41 (58)/68 dated 31.01.1969
- 2) Ministry Circular No. NH-3/P/66/76 dated 18/19.11.1976
- 3) Ministry Circular No. RW/NH/-3/P/66/76 dated 11.05.1982
- 4) Ministry Circular No. RW/NH-11037/1/66-DOI (2) dated 28.07.1993
- 5) Ministry Circular No. RW/NH-11037/1/86/DOI dated 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

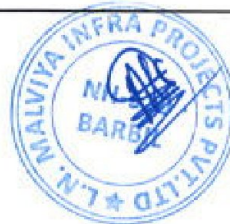
Check list for approval for crossing of Iron Ore Slurry Pipelines on NH Land


| SL.No | Item | Information/status | Remarks |
|-------|---|--|---------|
| 1 | General Information | Orissa Metaliks Private Limited have proposed to carry 20 MTPA Iron Ore from near by mining area to Kharagpur in slurry form this seeking Permission for laying 660mm dia iron ore slurry pipeline & 508mm dia return water pipeline along National Highway No-215 (Revised Name NH-520) from TATA DAV (Chainage 185.000 Km) through Bhadrasahi to KOIRA Chainage (215.000 Km) by Open Trench method in general and Horizontal Directional Drilling (HDD) Method at specific location like River , Bridge , Canal , Road , Railwayetc & places where locational constraint exist. | - |
| 1.1 | Name and Address of the Appicant/Agency | M/s Orissa Metaliks Private Limited Garstin Place, Orbit House, 3rd Floor, Room No. 3B, Kolkata - 700001, India | - |
| 1.2 | National highway No- | NH-215 (Revised NH-520) | - |
| 1.3 | State | Odisha | - |
| 1.4 | Location | TATA DAV through Bhadrasahi to KOIRA | - |
| 1.5 | Chainage in km | Ch-185.000 Km to Ch-215.000 Km | - |
| 1.6 | Length in Meters | 30000 m | - |



| | | | |
|------|--|---|---|
| 1.7 | Width of available ROW | 60 mtr | |
| | (a) Left side from center line towards increasing chainage/km direction | 30 mtr | - |
| | (b) Right side from centre line towards increasing chainage /km direction | 30 mtr | - |
| 1.8 | Proposal to lay underground electrical cables | FIBER OPTIC CABLE laying involved in the same Pipeline trench | - |
| | (a) Left side from center line towards increasing chainage/km direction | As per availability | - |
| | (b) Right side from centre line towards increasing chainage /km direction | As per availability | - |
| 1.9 | Proposal to acquire land | Land available with 60 mtr ROW | - |
| | (a) Left side from center line | NA | - |
| | (b) Right side from centre line | NA | - |
| 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 | N/A | - |
| 1.11 | Details of already laid services, if any ,along the proposed route | Attached | - |
| 1.12 | Number of lanes (2/4/6/8) existing | Existing 4 lanes | - |
| 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 | As per ROW sheet | - |
| | If yes then which side | | - |
| | (a) Left side from center line towards increasing chainage/Km direction | | - |
| | (b) Right side from center line | | - |
| 1.15 | Proposed Service road | As per ROW sheet | - |
| | (a) Left side from center line | | - |
| | (b) Right side from center line | | - |
| 1.16 | Whether proposal to lay Iron Ore Slurry pipelines are after the service road or between the service road and main carriageway | After the service road in the Utility corridor | - |
| 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. | | - |


Team Leader
M/s TES Pvt. Ltd
Koida-Rajamunda
(NH-520)




परियोजना निदेशक
PROJECT DIRECTOR
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority's of India
प.का.इ, राउरकेला/ PIU, Rourkela

| | | | |
|------|--|---|---|
| | (a) Carrying of Iron Ore Slurry pipeline on bridges shall also be discouraged. However if the authorities seem to have no other viable alternative and approach the highway authority well in the time before the design of the bridge is finalised, they may be permitted to carry the pipeline on independent superstructure, 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. | Yes, agreed to comply | - |
| | (b) Cost of required extension of the substructure as well as that of the supporting superstructure shall be done by the agency-in-charge of the utilities | Yes, agreed to comply | - |
| | (c) 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 | Yes, it shall be encased at our cost | - |
| | (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 | - |
| | (c) Crossing shall not be too near the existing structures on the National Highway, the minimum distance being 5 M. What is the distance from the existing structures. | Yes, agreed all the crossing shall be done as per technical requirements & NHAI guidelines with approval of concerned owner of the facility with adequate safety. | - |
| | (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 is STEEL PIPE for carrier pipe and CONDUIT PIPE for fiber optic 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 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 bitumenious 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 a proposal | Yes | - |
| 2.1 | Cross section showing the size of trench for open trenching method (is it normal size of 1.5 m deep x 1.5 m wide) | Yes, Drawing attached | - |
| | (a) Should not be greater than 80 Cm wider than the outer diameter of the pipe | Yes, agreed to comply | - |
| | (b) 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 | - |
| | (c) Shall not be permitted to run along the National Highways when the road formation is suited 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 | 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 | Submitted | - |
| ##### | 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 | - |
| 2.04.02 | (a) The trench width should be atleast 90 cm , but not more than 150 cm wider than the outer diameter of pipe | Yes, agreed to comply | - |
| 2.04.03 | (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 for | Yes, agreed to comply | - |

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National Highways Authority's of India
प.क्र.इ. राउरकेला/ PIU, Rourkela

Team Leader
M/s TES Pvt. Ltd.
Koida-Rajamunda
(NH-520)



| | | | |
|---------|--|--|---|
| 2.04.04 | (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 | - |
| 2.04.05 | (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 | - |
| 2.04.06 | (e) The road crust shall be build to the same strength as the existing crust on either side on the trench . | Yes, agreed to comply | - |
| 2.04.07 | (f) The excavation shall be protected by flagman , signs and barricades , and red lights during night hours. | Yes, agreed to comply | - |
| 2.04.08 | (g) If required , a diversion shall be constructed at the expense of the agency owning the utility line | Yes, agreed to comply | - |
| ##### | Horizontal Directional Drilling (HDD) Method | Methodology attached | - |
| ##### | Laying of Iron Ore Slurry pipeline through CD works and method of laying | CD works is not used for carriageway crossings | - |
| 2.04.11 | (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. | - |
| 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 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 NHAI Guidelines | Yes, agreed for submission | - |



| | | | |
|------|---|---|---|
| 5 | Affidavit/Undertaking from the applicant for | Yes, agreed for submission | - |
| 5.1 | Not to damage to other utility, if damaged then to pay the losses either to NHAI 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 NHAI's guideline | Yes, agreed to comply | - |
| 5.4 | Shifting of Iron Ore Slurry pipeline as and when required by NHAI at our own cost | Yes, agreed to comply | - |
| 5.5 | Shifting due to 6 lanning/widening of NH | Yes, agreed to comply | - |
| 5.6 | Indemnity against all damages and claims clause (24) | Yes, agreed to comply | - |
| 5.7 | Traffic movement during laying of Iron ore slurry pipeline 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 pipeline located in the National Highway right-of-way | Yes, agreed to comply | - |
| 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 lline | 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 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 resonable time (not exceeding 60 days) of the intimation given. | Yes, agreed to comply | - |
| 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, agreed & submitted | - |
| 6 | Who will sign the agreement on behalf of Iron Ore Slurry pipelines agency | Authorised Signatory as appointed by OMPL and undertaking letter attached | - |
| 7 | Certificate from the project director | Attached | - |

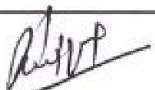
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Team Leader
M/s TES Pvt. Ltd.
Koida-Rajamunda
(NH-520)



| | | | |
|-----|--|--|---|
| 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/NH-34066/7/2003 S&R(B) dated 17.9.2003 | Attached | - |
| 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 cum return water pipeline within ROW will not adversely affect 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 accomodating 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 permission to lay Iron Ore Slurry pipeline may likely to be handed over 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 , the licensee shall honour the same. " | Agreed | - |
| 9 | who will supervise the work of laying Iron Ore Slurry pipeline | Orissa Metaliks Private Limited. Garstin Place, Orbit House, 3rd Floor, Room No. 3B, Kolkata - 700001, India | - |
| 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. | Orissa Metaliks Private Limited. Garstin Place, Orbit House, 3rd Floor, Room No. 3B, Kolkata - 700001, India | - |
| 11 | Who will pay the claims for damages done/distribution in working of concessionaire if asked by the concessionaire | Orissa Metaliks Private Limited. Garstin Place, Orbit House, 3rd Floor, Room No. 3B, Kolkata - 700001, India | - |

| | | | |
|----|---|------|---|
| 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 | - |
| 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 | Okay | - |


 Team Leader
 M/s TES Pvt. Ltd.
 Koida-Rajamunda
 (NH-520)




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 PROJECT DIRECTOR
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
 National Highways Authority's of India
 प.का.ड, राउरकेला/ PIU, Rourkela