



# 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  
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NHAI/13011/54/RO/OD/ 648 /2021

02.03.2021

To

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

**Sub:** Proposal to lay Water Pipeline, Return Water Pipeline, Tailing line & Iron Ore Slurry Pipeline with OFC Duct in the Utility Corridor of NH-143 from Km-273.000 (Darjing) Km. to Km 287.200 (RHS) & Km 287.200 (Rajamunda) to Km 337.185 (Barkote) (LHS) in Biramitrapur - Barkote section of NH-143 by M/s Rungta Mines Limited-Reg

Sir,

Please find enclosed herewith a proposal of M/s Rungta Mines Ltd for laying of 1000mm Water Pipeline, 600mm Slurry Pipeline, 500mm Tailing Pipeline, 400mm Return Water Pipeline in the Utility Corridor of NH-143 from Km-273.000 [Darjing] Km. to Km 287.200 (RHS) & Km 287.200 [Rajamunda] to Km 337.185[Barkote] (LHS) in Biramitrapur - Barkote section of NH-143. The details are as under:

Sl. No.	Chainage		Side	Length (m)	Width of Corridor (mm)	Remarks
	From	To				
1	273.000	287.200	RHS	14200	2700	1000 mm dia Water Pipeline + 400 mm dia return water pipeline + 500 mm dia Tailing Pipeline + 60 mm OFC Duct
2	287.200		Across	60	3000	Crossing of 3 Pipelines by HDD Method + 60 mm OFC Duct
3	287.200	337.185	LHS	49985	1000	600 mm dia Slurry Pipeline+ 60 mm OFC Duct
				64245m		

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]*  
02-03-2021

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



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NHAI/13011/54/RO/OD/ 642 /2021

02.03.2021

## INVITATION OF PUBLIC COMMENTS

**Sub: Proposal to lay Water Pipeline, Return Water Pipeline, Tailing line & Iron Ore Slurry Pipeline with OFC Duct in the Utility Corridor of NH-143 from Km-273.000 (Darjing) Km. to Km 287.200 (RHS) & Km 287.200 (Rajamunda) to Km 337.185 (Barkote) (LHS) in Biramitrapur - Barkote section of NH-143 by M/s Rungta Mines Limited-Reg**

M/s Rungta Mines Ltd has submitted a proposal for laying of 1000mm Water Pipeline, 600mm Slurry Pipeline, 500mm Tailing Pipeline, 400mm Return Water Pipeline in the Utility Corridor of NH-143 from Km-273.000 [Darjing] Km. to Km 287.200 (RHS) & Km 287.200 [Rajamunda] to Km 337.185[Barkote] (LHS) in Biramitrapur - Barkote section of NH-143. The details are as under:

Sl. No.	Chainage		Side	Length (m)	Width of Corridor (mm)	Remarks
	From	To				
1	273.000	287.200	RHS	14200	2700	1000 mm dia Water Pipeline + 400 mm dia return water pipeline + 500 mm dia Tailing Pipeline + 60 mm OFC Duct
2	287.200		Across	60	3000	Crossing of 3 Pipelines by HDD Method + 60 mm OFC Duct
3	287.200	337.185	LHS	49985	1000	600 mm dia Slurry Pipeline+ 60 mm OFC Duct
				64245m		

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

*Handwritten signature and date 02.03.2021*

Chief General Manager (Tech) & RO- Odisha  
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 1000 mm Ø Water Pipeline, 500 mm Ø Tailing Pipeline, 400 mm Ø return water pipeline in the land along RHS of National Highway- 143 from Ch.- 273.000 Km. to Ch.- 287.200 Km. & NH- 143 crossing at Ch.- 287.200 Km. from RHS to LHS & laying of 600 mm Ø Slurry Pipeline in the land along LHS of National Highway- 143 from Ch.- 287.200 Km. to Ch.- 337.185 Km. vested with NHAI.

• **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/66/76 dated 11.05.1982
4. Ministry Circular No. RW/NH-11037/1/66-DOI(ii) 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(R) dated 22.11.2016
9. Ministry Circular No. RW/NH-37011/52/2020-BP&SP dated 15.01.2021

**Checklist for getting approval for laying of Water Pipeline, Slurry Pipeline, Tailing Pipeline & Return Water Pipeline in RoW of NH 143 & NH crossing at 1 location on NH.**

Sl. S	Item	Information/Status	Remarks
1	General Information	<p>(A) Laying of 1000 mm dia <b>Water pipeline</b> from Brahmani River from Km 273.000 to Km 287.200 in RHS of ROW of utility corridor of NH-143 &amp; NH-143 crossing at Km 287.200 in Biramitrapur-Barkote section to Kamanda Steel Plant &amp; Proposed 34 MTPA Iron Ore Beneficiation Plant located at village-Bhanjapalli &amp; Teherei.</p> <p>(B) Laying of 500mm dia <b>Tailing pipeline</b> from proposed 34 MTPA Iron Ore Beneficiation Plant located at village-Bhanjapalli &amp; Teherei from Km 273.000 to Km 287.200 in RHS of ROW of utility Corridor of NH-143 &amp; NH-143 crossing at Km 287.200 from RHS to LHS in Biramitrapur-Barkote section to proposed Tailing pond.</p> <p>(C) Laying of 400 mm dia <b>Return Water pipeline</b> from proposed Tailing Pond from Km 273.000 to Km 287.200 in RHS of ROW of utility Corridor of NH-143 &amp; NH-143 crossing at Km 287.200 from RHS to LHS in Biramitrapur-Barkote section to Proposed 34 MTPA Iron Ore Beneficiation Plant located at village-Bhanjapalli &amp; Teherei.</p>	



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		(D) Laying of 600mm dia <b>Ash Slurry pipeline</b> from proposed 34 MTPA Iron Ore Beneficiation Plant located at village-Bhanjapalli & Teherei from <b>Km 287.200 to Km 337.185</b> in LHS of ROW of utility Corridor of NH-143 in Biramitrapur-Barkote section to Dhenkanal Steel Plant.	
1.1	Name and Address of the Applicant / Agency	M/s Rungta Mines Limited (B&T Iron Ore Beneficiation Plant), Main Road, Barbil, Dist.-Keonjhar, Odisha-758035.	
1.2	National Highway Number	NH-143 (Biramitrapur to Barkote Section)	
1.3	State	Odisha	
1.4	Location	Darjing (Km 273.000) to Barkote (Km 287.200)	
1.5	(Chainage in Km.)	1. 273.000 Km. to 287.200 Km. (RHS) [1000mm+500mm+400mm] 4. 287.200 Km. to 337.185 Km. (LHS) [600mm]	
1.6	Length in Meters.	1. 14,200 M (RHS) 2. 49,985 M (LHS)	
1.7	Width of available Row	60M	
	(a) Left side from centre line towards increasing chainage/km. direction	30m	
	(b) Right side from centre line towards increasing chainage/km. direction	30m	
1.8	Proposal to lay Water Pipeline, Slurry Pipeline, Tailing Pipeline & Return Water Pipeline		
	(a) Left side from center line towards increasing chainage/km direction.	Km 287.200 to Km 337.185 (600 mm Ø Slurry Pipeline to Dhenkanal Steel Plant from B&T Iron Ore Beneficiation Plant.	
	(b) Right side from center line towards increasing chainage/km direction.	Km 273.000 to Km 287.200 (1000 mm Ø Water Pipeline to Kamanda Steel Plant & B&T Iron Ore Beneficiation Plant + 500 mm Ø Tailing Pipeline to tailing pond + 400 mm Ø Return water Pipeline from tailing pond to B&T Iron Ore Beneficiation Plant.	
1.9	Proposal to acquire land	Right to use of NH ROW as per P&MP Act is available for laying the pipelines (industrial corridor) across the NH ROW.	
	(a) Left side from centre 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	No	
	If not then where to lay the cable.	N/A	




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1.11	Details of already laid services, if any, along the proposed route	Attached	Annexure-A
1.12	Number of lanes (2/4/6/8 lanes) existing	Existing 2 lanes & work under progress for upgradation of road upto 4 lanes.	
1.13	Proposed number of lanes(2 lane with paved shoulders/4/6/8 lanes)	4 lane with paved shoulder(Km 273.000 to Km 287.200); 4-Lanes (Km 287.200 to Km 337.185)	
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	Attached	Annexure-B
	(a) Left side from centerline		
	(b)Right side from center line		
1.16	Whether proposal to lay Water, Slurry, Tailing & Return water pipeline is after the service road or between the service road and main carriageway.	After service road, in extreme edge of RoW in Utility Corridor	
1.17	The permission for laying of Water Pipeline, Slurry Pipeline, Tailing Pipeline & Return Water Pipeline shall be considered for approval/rejection based on the Ministry Circulars mentioned as above	Agreed	
(a)	Carrying of sewage/gas pipelines on highway bridges shall not be permitted as fumes /gases pipes can accelerate the process of corrosion or may cause explosions, thus, being much more injurious than leakage of water.	Agreed	
(b)	Carrying of water pipelines 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 pipe line 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	Agreed	



  
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	inspection and repairs etc.		
(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.	Agreed	
(d)	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.	Agreed	
1.18	If crossing of the road involved. If yes, it shall be either encased in pipes or through structure of conduits specially built for that purpose at the expenses of the agency owning the line.	Agreed	
(a)	Existing drainage structures shall not be allowed to carry the lines.	Agreed	
(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.	Agreed	
(d)	The casing pipe (or conduit pipe in the case of electric power 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.	Agreed	
(e)	Ends of the casing/conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.	Agreed	
(f)	The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope in the fills.	Agreed	
(g)	The top of the casing/conduit pipe should be at least 1.2 meter below the surface of the road subject to	Agreed	



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	being at least 0.3 mtr below the drain inverts.		
(h)	Crossing shall be by boring method (HDD) especially where the existing road pavement is of cement concrete or dense bituminous concrete type.	Agreed	
(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 a waterway along it.	Agreed	
2	Document / Drawings enclosed with proposal	Enclosed	
2.1	Cross section showing the size of trench for open trenching method. (Is it normal size of 1.2m deep X 0.3m wide).	Enclosed	
(i)	Should not be greater than 60cm. Wider than the outer diameter of the pipe.	Agreed	
(ii)	Located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-lines of the nearest carriageway.	Agreed	
(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.	Agreed	
(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.	Agreed	
2.2	Cross section showing the size of the pit and location of Pipes for HDD method	Enclosed	
2.3	Strip plan / Route plan showing Water Pipeline, Slurry Pipeline, Tailing Pipeline & Return Water Pipeline chainage, width of ROW, distance of proposed pipe lines from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Enclosed	
2.4	Methodology for laying of pipelines.	Open trench method for Laying Along the Highway,	



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		Horizontal Directional Drilling method for laying of Pipelines across NH (Methodology Enclosed)	
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 of trench.	Agreed	
(a)	The trench width should be at least 30 cm, but not more than 60 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 30cm. It shall consist of granular material, free of lumps, clods and cobbles and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edged should be excavated and replaced by selected material.	Agreed	
(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 the road crust.	Agreed	
(d)	The side fill shall consist of granular material laid in 15cm 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 on 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 lights 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)	Methodology Enclosed	




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	Method		
2.4.3	Laying of Water Pipeline, Slurry Pipeline, Tailing Pipeline & Return Water Pipeline through CD works and method of laying	NA	
(a)	On approaches, the Water Pipeline, Slurry Pipeline, Tailing Pipeline & Return Water Pipeline 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. NH-HI/P/66/76 dated 19.11.1976.	Agreed	
3	Draft License 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. 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, cleaning debris / loose earth produced due to execution of trenching at least 50m away from the edge of the right of way. No payment shall be payable by the NHAI to the licensee for clearing debris /loose earth.	Agreed	
4.1	Performance BG as per above is to be obtained.	Shall be submitted per extant guidelines	
4.2	Confirmation of BG has been obtained as per NHAI guidelines	Shall be submitted per extant guidelines	
5	Affidavit/Undertaking from the applicant for	Yes	
5.1	Not to damage to other utility, 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 guidelines.	Yes	



  
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5.4	Shifting of Water Pipeline, Slurry Pipeline, Tailing Pipeline & Return Water Pipeline as and when required by NHAI at their own cost.	Agreed	
5.5	Shifting due to 6 laning / widening of NH.	Agreed	
5.6	Indemnity against all damages and claims clause(24).	Yes	
5.7	Traffic movement during laying of Water Pipeline, Slurry Pipeline, Tailing Pipeline, Return Water Pipeline & Under Ground Power 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 Water Pipeline, Slurry Pipeline, Tailing Pipeline & Return Water Pipeline located in the National Highway right of ways.	Yes	
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 Water Pipeline, Slurry Pipeline, Tailing Pipeline & Return Water Pipeline will be borne by the agency owning the line.	Agreed	
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 shall be carried out as desired by the NHAI at the cost of the agency owning the utility line within a reasonable time(not exceeding 60days) of the intimation given.	Agreed	
5.12	Certificate from the applicant in the following format		



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	<p>(i) Laying of Water Pipeline, Slurry Pipeline, Tailing Pipeline &amp; Return Water Pipeline will not have any deleterious effects on any of the bridge components and roadway safety for traffic.</p> <p>(ii) For 6-laning" We do undertake that we will relocate service roads/ approach road/ utilities at our own cost notwithstanding the permission granted within such time as will be stipulated by NHAI for future six-laning or any other development".</p>	<p>Enclosed</p> <p>Enclosed</p>	
6	Who will sign the agreement on behalf of Water Pipeline, Slurry Pipeline, Tailing Pipeline & Return Water Pipeline agency	Mr. Pranaya Kumar Deo (Sr. GM Commercial) Rungta Mines Limited, Barbil. (Authorization Letter Enclosed)	
7	Certificate from the Project Director		
7.1	<p>Certificate for confirming of all standard condition issued vide Ministry Circular No.</p> <ol style="list-style-type: none"> <li>1. Ministry Circular No. NH-41(58)/68 dated 31.1.1969</li> <li>2. Ministry Circular No. NH-III/P/66/76 dated 18/19.11.1976</li> <li>3. Ministry Circular No. RW/NH-III/P/66/76 dated 11.05.1982</li> <li>4. Ministry Circular No. RW/NH-11037/1/86-DOI(ii) dated 28.07.1993</li> <li>5. Ministry Circular No. RW/NH-11037/1/86-DOI dated 19.01.1995</li> <li>6. Ministry Circular No. RW/NH-34066/2/95/S&amp;R dated 25.10.1999</li> <li>7. Ministry Circular No. RW/NH-34066/7/2003</li> </ol>	Enclosed	



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	<p>S&amp;R(B) dated 17.09.2003</p> <p>8. Ministry Circular No. RW/NH-33044/29/2015/S&amp;R (R) dated 22.11.2016</p> <p>9. Ministry Circular No. RW/NH-37011/52/2020- BP&amp;SP dated 15.01.2021.</p>		
7.2	<p>Certificate from PD in the following format</p> <p>(i) " It is certified that any other location of the Water Pipeline, Slurry Pipeline, Tailing Pipeline &amp; Return Water Pipeline would be extremely difficult and unreasonable costly and the installation of Water Pipeline, Slurry Pipeline, Tailing Pipeline &amp; Return 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."</p> <p>(ii) For 6-laning</p> <p>(a) Where feasible is available" I do certify that there will be no hindrance to proposed six-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 six-laning."</p>	<p>Enclosed</p> <p>Enclosed</p>	



  
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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 ----- to Km ----- of NH NO.-----on Build, Operate and Transfer Basis ] and therefore, the licensee shall honour the same."	NA	
9	Who will supervise the work of laying of Water Pipeline, Slurry Pipeline, Tailing Pipeline & Return Water Pipeline	Rungta Mines Limited	
10	Who will ensure that the defects in road portion after laying of Water Pipeline, Slurry Pipelines, Tailing Pipeline, Return Water Pipeline & Under Ground Power Cable are corrected and if not corrected then what action will be taken.	Rungta Mines Limited	
11	Who will pay the claims for damages done/disruption in working of concessionaire if asked by the concessionaire.	Rungta Mines Limited	
12	A certificate from Project Director 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 utilities, that photocopy of register of records of permissions accorded as maintained by PD then copy be enclosed	Enclosed	



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