



## भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सङ्क 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 हाईटस, प्लाट् नं जे/7, जयदेव विहार भूवनेश्वर - 751013,ओडिशा

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

25.03.2021

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NHAI/13011/54//RO/OD/ 943 /2021

To

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

Sub: Laying of 500 mm dia Slurry Pipeline & 400 mm dia. Return Water Pipeline from 188.600 Km (Bhadrasahi) to 209.400 Km (Koira) in the RoW of utility corridor of NH-520 in Rimuli-Rajamunda section from proposed 34 MTPA Iron Ore Beneficiation Plant located at Villages-Bhanjapalli & Teherei, under Koira Tahasil in Sundergarh district, Odisha to Chaliyama Steel Plant located at village Chaliyama in district West Singhabhum, Jharkhand of M/s Rungta Mines Limited-Reg

Sir,

Please find enclosed herewith a proposal of M/s Rungta Mines Ltd for laying of Slurry pipeline & return water pipeline in the Utility corridor of NH-520 in Rimuli-Rajamunda section from proposed 34 MTPA Iron Ore Beneficiation Plant located at Villages-Bhanjapalli & Teherei, under Koira Tahasil in Sundergarh district, Odisha to Chaliyama Steel Plant located at village Chaliyama. The Agency M/s Rungta Mines Ltd. has submitted proposal for laying 500mm dia Slurry pipeline, 400mm dia return water pipeline & 65 mm OFC duct from 188.600 Km to 208.000 Km. & One crossing at Ch: 188.600. The details are as under:

	Chainage			Length	Width of	
SI. No.	From To		Side	(m)	Corridor (mm)	Remarks by PD
1.	188	8.600	Across	60	2600	Casing dia 800mm for iron ore slurry pipe & dia 600 mm for return water pipe with Gap of 1200 mm gap in between.
2.	188.600 208.000		LHS	19400	1000	500 mm dia Slurry Pipeline & 400 mm dia. Return Water Pipeline
	Recomme	nded Length		19460		

 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,

25 03.70 X

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

Corporate Office: G-5 & 6, Sector-10, Dwarka, New Delhi-110 075, Phone: 011-25074100/200 Website: http://www.nhai.org







## भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजेमार्ग मंत्रालय)

#### National Highways Authority of India (Ministry of Road Transport & Highways)

क्षेत्रीय कार्यालय,ओडिशा /Regional Office, Odisha 301 - ए, तीसरी मंजिल, पाल हाईटस, प्लाट् नं जे/7, जयदेव विहार भुवनेश्वर - 751013, ओडिशा

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NHAI/13011/54//RO/OD/ 942 /2021

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#### INVITATION OF PUBLIC COMMENTS

Sub: Laying of 500 mm dia Slurry Pipeline & 400 mm dia. Return Water Pipeline from 188.600 Km (Bhadrasahi) to 209.400 Km (Koira) in the RoW of utility corridor of NH-520 in Rimuli-Rajamunda section from proposed 34 MTPA Iron Ore Beneficiation Plant located at Villages-Bhanjapalli & Teherei, under Koira Tahasil in Sundergarh district, Odisha to Chaliyama Steel Plant located at village Chaliyama in district West Singhabhum, Jharkhand of M/s Rungta Mines Limited-Reg

M/s Rungta Mines Ltd has submitted a proposal for laying of Slurry pipeline & return water pipeline in the Utility corridor of NH-520 in Rimuli-Rajamunda section from proposed 34 MTPA Iron Ore Beneficiation Plant located at Villages-Bhanjapalli & Teherei, under Koira Tahasil in Sundergarh district, Odisha to Chaliyama Steel Plant located at village Chaliyama. The Agency M/s Rungta Mines Ltd. has submitted proposal for laying 500mm dia Slurry pipeline, 400mm dia return water pipeline & 65 mm OFC duct from 188.600 Km to 208.000 Km. & One crossing at Ch: 188.600. The details are as under:

SI. No.	Chainage		555-8	Length	Width of	7 7 72
	From	То	Side (m)		Corridor (mm)	Remarks by PD
1.	18	88.600 Across 60 2600 Casing dia slurry pipe return wate		Casing dia 800mm for iron ore slurry pipe & dia 600 mm for return water pipe with Gap of 1200 mm gap in between.		
2.	188.600 208.000		LHS	19400	1000	500 mm dia Slurry Pipeline & 400 mm dia. Return Water Pipeline
	Recomme	nded Length		19460		

- 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

Manager (Tech) & R

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

Corporate Office: G-5 & 6, Sector-10, Dwarka, New Delhi-110 075, Phone: 011-25074100/200 Website: http://www.nhai.org

#### CHECK-LIST

Guidelines for Project Directors for processing the proposal for laying of 500 mm Ø Slurry Pipeline, 400 mm Ø Return Water Pipeline & 65 mm Ø OFC in the land along LHS of NH-520 from Ch.- 188.600 Km. to Ch.- 209.400 Km. and NH-520 crossing at Ch.- 188.600 Km from RHS to LHS vested with NHAI.

- · Relevant Circulars
- 1. Ministry Circular No. NH-41(58)/68 dated 31.1.1969
- 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
- Ministry Circular No. RW/NH-11037/1/66-DOI(ii) dated 28.07.1993
- Ministry Circular No. RW/NH-11037/1/86-DOI dated 19.01.1995
- Ministry Circular No. RW/NH-34066/2/95/S&R dated 25.10.1999
- 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
- Ministry Circular No. RW/NH-37011/52/2020-BP&SP dated 15.01.2021

# Checklist for getting approval for laying of Slurry Pipeline, Return Water Pipeline & OFC in RoW of NH land & NH crossing at 1 location on NH.

Sl. S	Item	Information/Status	Remarks
1	General Information	Laying of 500 mm dia Iron Ore Slurry Pipeline, 400 mm dia Return Water Pipeline & 65 mm dia duct pipe along LHS of NH-520 from Ch 188.600 Km. to Ch 209.400 Km. & crossing of NH-520 at Ch 188.600 Km. from RHS to LHS.	2.3
1.1	Name and Address of the Applicant / Agency	M/s Rungta Mines Limited (B&T Iron Ore Beneficiation Plant) Main Road, Barbil, DistKeonjhar, Odisha-758035.	
1.2	National Highway Number	NH-520 ( Rimuli - Rajamunda section )	
1.3	State	Odisha	
1.4	Location	Rimuli - Rajamunda (Bhadrasahi to Koira)	
1.5	(Chainage in Km.)	188.600 Km. to 209.400 Km. (LHS) 208.00 [500mmØ+400mmØ+65mmØ]- Pipeline [550mm+450mm=1000mm] - Corridor / Width	
1.6	Length in Meters.	20,800 M (LHS) 19400 m	
1.7	Width of available Row	60M	
	<ul> <li>(a) Left side from centre line towards increasing chainage/km. direction</li> </ul>	30m	
	(b) Right side from centre line towards increasing chainage/km. direction	30m	
1.8	Proposal to lay Slurry Pipeline, Return Water Pipeline & OFC		
	<ul> <li>(a) Left side from center line towards increasing chainage/km direction.</li> </ul>	Km. 188.600 to Km. 208.600 [500mmØ Slurry Pipeline to Chaliyama Steel Plant from B&T Iron Ore Beneficiation Plant + 400mmØ Return Water Pipeline to B&T Iron Ore Beneficiation Plant from Chaliyama Steel Plant + 65mmØ OFC].	
	(b) Right side from center line towards increasing chainage/km direction.		
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	

M/s. RUNGTA MINES LTD. (B&T Iron Ore Beneficiation Plant)

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1.11	Details of already laid services, if any, along the proposed route	Attached	Annexure-A
1.12	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	
1.14	Service road existing or not	No	1
	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	11111111111	Amicadic-D
	(b)Right side from center line		
1.16	Whether proposal to lay Slurry, Return water pipeline & OFC 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 Slurry, Return water pipeline & OFC 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	Agreed	

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	around the superstructure of the bridge remains available for 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- incharge 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	Agreed

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	to drain in cuts and toe of slope in the fills.		
(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.	Agreed	
(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	20
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	i¥.
2.3	Strip plan / Route plan showing Slurry, Return water pipeline &	Enclosed	

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	OFC chainage, width of ROW, distance of proposed pipe lines form the edge of ROW, important mile stone, intersections, cross drainage works etc.		
2.4	pipelines.	Open trench method for Laying Along the Highway, Horizontal Directional Drilling method for laying of Pipelines across NH (Methodology Enclosed)	3.3
2.4.	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)	least 30 cm, but not more that 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 valve. Unsuitable soil and rock edged should be excavated and replaced by selected material.	Agreed	
(c)	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	Agreed	

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	crust on 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 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.	Horizontal Directional Drilling (HDD) Method	Methodology Enclosed
2.4. 3	Laying of Slurry, Return water pipeline & OFC through CD works and method of laying	NA
(a)	On approaches, the Slurry, Return water pipeline & OFC 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
t t c c a a // e e 5 5 r r b li	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 rench for laying the tables/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 ight of way. No payment shall be payable by the NHAI to the icensee for clearing debris loose earth.	Agreed

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4.	Performance BG as per above is to be obtained.	Shall be submitted per extant guidelines	
4.2	obtained as per NHAI guidelines	Shall be submitted per extant guidelines	
5	Affidavit/Undertaking from the applicant for	Yes	
5.1	damaged then to pay the losses either to NHAI or to the concerned agency.	Yes	20-
5.2	- Sum of Built Oddituitee.	Yes	
5.3	Standard	Yes	
	condition of NHAI's guidelines.	103	
5.4	Shifting of Slurry, Return water pipeline & OFC as and when required by NHAI at their own cost.	Agreed	
5.5	widening of NH.	Agreed	
5.6	Indemnity against all damages and claims clause(24).	Yes	
5.7	Traffic movement during laying of Slurry, Return water pipeline & OFC 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 Slurry Pipeline, Return water pipeline & OFC located in the National Highway right of ways.	Yes	
- 1	Expenditure, if any incurred by NHAI for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the Slurry Pipeline, Return Water Pipeline & OFC will be borne by the agency owning the line.	Agreed	
1000	If the NHAI considers it necessary in future to move the	Agreed	

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	1		
	utility line for any work or improvement or repairs to the	f	
	road, it shall be carried out as		
	desired by the NHAI at the cost		
	of the agency owning the utility		1
	line within a reasonable time(not		
	exceeding 60days) of the intimation given.	1	
5.1			4.0
3.1	2 Certificate from the applicant in the following format		
			1
	Pipeline, Return	1	
	water pipeline & OFC will not have		
		Enclosed	
	any deleterious		
	effects on any of the		
	bridge components		
	and roadway safety for traffic.		
1	The state of the s		
1	(ii) For 6-laning" We do	1	
	undertake that we		
1	will relocate service		
	roads/ approach road/		
	utilities at our own	Enclosed	
	cost notwithstanding		
	the permission		
	granted within such time as will be		
	stipulated by NHAI		
	for future six-laning		
	or any other		
6	development".		
U	Who will sign the agreement on	Mr. Pranaya Kumar Deo (Sr. GM Commercial)	
	behalf of Slurry Pipeline, Return	Rungta Mines Limited, Barbil.	1
7	water pipeline & OFC agency Certificate from the Project	(Authorization Letter Enclosed)	
,	Certificate from the Project Director		
7.1	Certificate for confirming of all		
	standard condition issued vide		
	Ministry Circular No.		
	Ministry Circular No.		
	NH-41(58)/68 dated		
	31.1.1969		
	2. Ministry Circular No.		
	NH-III/P/66/76 dated	Enclosed	
	18/19.11.1976	Eliciosed	-
	3. Ministry Circular No.		
	RW/NH-III/P/66/76	1	

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4. Ministry Circular No. RW/NH-110371/186- DOI(ii) dated 28.07.1993 5. Ministry Circular No. RW/NH-110371/186- DOI dated 19.01.1995 6. Ministry Circular No. RW/NH-34066/2/95/8-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.  Certificate from PD in the following format (i) "It is certified that any other location of the Slurry Pipeline, Return water pipeline & OFC would be extremely difficult and unreasonable costly and the installation of Slurry Pipeline, Return water pipeline & OFC 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- laning		dated 11.05.1092	
dated 22.11.2016  9. Ministry Circular No. RW/NH-37011/52/2020- BP&SP dated 15.01.2021.  2 Certificate from PD in the following format  (i) "It is certified that any other location of the Slurry Pipeline, Return water pipeline & OFC would be extremely difficult and unreasonable costly and the installation of Slurry Pipeline, Return water pipeline & OFC 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."		RW/NH-11037/1/86- 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.	
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(a) Where feasible is Enclosed	fo	llowing format  (i) "It is certified that any other location of the Slurry Pipeline, Return water pipeline & OFC would be extremely difficult and unreasonable costly and the installation of Slurry Pipeline, Return water pipeline & OFC 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- laning	

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	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."  (b) In case feasibility report is not available, "I do certify that sufficient ROW is available at site for accommodating proposed six-laning."		
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 upgradation of [	NA	
9	Who will supervise the work of laying of Slurry Pipeline, Return water pipeline & OFC	Rungta Mines Limited	
10	Who will ensure that the defects in road portion after laying of Slurry Pipeline, Return water pipeline & OFC are corrected and if not corrected then what action will be taken.	Rungta Mines Limited	6

Authorized Signatory

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

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	2 3
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	

Authorized Signatory

परियोजन निदंशक PROJECT DIRECTOR भारतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highways Authority's of India का.इ. राउरके / PIU, Rourkela