

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सडक परिवहने 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 हाईटस, प्लाट् नं जे/7, जयदेव विहार, भुवनेश्वर - 751013, ओड़िशा 301-A, 3rd Floor, Pal Heights, Plot No : J/7, Jayadev Vihar, Bhubaneswar- 751013, Odisha दुरभाष /Ph.: 0674 - 2361470/ 570/670 (का/O),फैक्स /Fax : +91-674-2361770 इं-मेल/e-mail : roodisha@nhai.org, ronhaiodisha@gmail.com, वेबसाइट/Web : www.nhai.gov.in



09.02.2022

NHAI/13011/54/RO/OD/ 422/2022

To

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

Sub:

Rehabilitation and Up-gradation of NH-149 from Km.0.000 to 68.280 Km. (Pallahara to Pitiri Section) two lanes with paved shoulders under NHDP-IV in the state of Odisha on EPC Mode - Proposal for laying 600 mm dia slurry pipeline with 40mm OFC Duct in the LHS from Km.0.000 to Km.68.280 in ROW of utility corridor of NH-149 in Pallahara- Pitiri section from 34 MTPA iron ore beneficiation plant located at village- Bhanjapalli and Teherei to Dhenkanal Steel Plant of M/s Rungta Mines Ltd.-Reg

Sir,

Please find enclosed herewith a proposal of M/s Rungta Mines Ltd for laying of iron ore slurry pipeline & OFC Duct in the Utility corridor of NH149 from proposed 34 MTPA iron orc beneficiation plant located at village- Bhanjapalli and Teherel to Dhenkanal Steel Plant. The Agency M/s Rungta Mines Ltd. has submitted proposal for laying of 600mm dia iron ore sturry pipeline & 40mm OFC duct in the LHS from Km.0.000 to Km.68.280. The details are as under:

	Chalnage		Length	Width of	Remarks	
GI. No.	From	То	Side	Side (m)	Corridor (mm)	
1.	0.000	68.280	LHS	68.280	1000	Laying of 600mm dia iron ore slurry pipeline & 40mm OFC duct .

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,

Manager (Tech)



न्यमेव जयने

# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सडक 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

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09.02.2022

NHAI/13011/54/RO/OD/ 4 2 / 12022

### INVITATION OF PUBLIC COMMENTS

Rehabilitation and Up-gradation of NH-149 from Km.0.000 to 68.280 Km. (Pallahara to Pitiri Section) two lanes with paved shoulders under NHDP-IV in the state of Odisha on EPC Mode - Proposal for Sub: laying 600 mm dia slurry pipeline with 40mm OFC Duct in the LHS from Km.0.000 to Km.68.280 in ROW of utility corridor of NH-149 in Pallahara- Pitiri section from 34 MTPA iron ore beneficiation plant located at village- Bhanjapalli and Teherei to Dhenkanal Steel Plant of M/s Rungta Mines Ltd.-Reg

M/s Rungta Mines Ltd has submitted a proposal for laying of iron ore slurry pipeline & OFC Duct in the Utility corridor of NH149 from proposed 34 MTPA iron ore beneficiation plant located at village-Bhanjapalli and Teherei to Dhenkanal Steel Plant. The Agency M/s Rungta Mines Ltd. has submitted proposal for laying of 600mm dia iron ore slurry pipeline & 40mm OFC duct in the LHS from Km.0.000 to Km.68.280. The details are as under:

	Chainage		Length	Width of	Remarks	
SI.	From	То	Side	(m)	Corridor (mm)	
No.	0.000	CO.280	LHS	68.280	1000	Laying of 600mm dia iron ore slurry pipeline & 40mm OFC duct.

- 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).
- 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".

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 600 mm Ø Iron Ore Slurry Pipeline with 40 mm Ø OFC Duct in the land along LHS of NH - 149 from Ch.- 0.000 Km. (Pallahara) to Ch.- 68.280 Km. (Pitiri) vested with NHAI.

- Relevant Circulars
- Ministry Circular No. NH-41(58)/68 dated 31.1.1969
- Ministry Circular No. NH-III/P/66/76 dated 18/19.11.1976
- 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
- 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
- Ministry Circular No. RW/NH-37011/52/2020-BP&SP dated 15.01.2021

#### Checklist for getting approval for laying of Slurry Pipeline & OFC Duct in RoW of NH Land.

SI. S	Item	Information/Status	Remarks
1	General Information	Laying of 600 mm Ø Iron Ore Slurry Pipeline with 40 mm Ø OFC Duct from 34 MTPA Iron Ore Beneficiation Plant located at villages - Bhanjapalli & Teherei to Dhenkanal Steel Plant from Km 0.000 to Km 68.280 (LHS) in ROW of utility corridor of NH-149.	
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- 149	
1.3	State	Odisha	
1.4	Location	Pallahara (Km.0.000) to Pitiri (Km.68.280)	
1.5	(Chainage in Km.)	NH-149- 0.000 Km. to 68.280 Km. (LHS)	
1.6	Length in Meters.	NH-149- 68,280 M (LHS)	
1.7	Width of available Row	45 M	
	<ul> <li>(a) Left side from centre line towards increasing chainage/km. direction</li> </ul>	22:5 m	4s Perz ericlosed Streip plan
	(b) Right side from centre line towards increasing chainage/km. direction	22.5 m	As Perc enclosed Strup Plan
1.8	Proposal to lay Slurry Pipeline & OFC Duct		
	<ul> <li>(a) Left side from center line towards increasing chainage/km direction.</li> </ul>	NH- 149- Km. 0.000 to Km. 68.280 [600mm Ø Iron Ore Slurry Pipeline + 40 mm Ø OFC Duct]	
	(b) Right side from center line towards increasing chainage/km direction.		

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

Site Engineer

परियजना/ प्रबधक (तकनीक) Manager (Tech.PROJECT DIRECTOR

Authorized Signator National Highways Authority of Indianal Highways Auth National Highways Authority of Indianal Highways Indianal Highwa Project Implementation Unit-Dhenkanal प का.इ. ढेंकानालां शा. ए. का.इ ढेंकानाल / PIU D. Lakar

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 Slurry Pipeline & OFC Duct.	In the utility corridor of NHAI RoW	
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	
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
7	(a) Left side from centerline		7 timexure B
	(b)Right side from center line		
1.16	Whether proposal to lay Slurry pipeline & OFC Duct 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 Pipeline & OFC Duct 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 Slurry pipeline on bridges shall also be discouraged. However if the water supply authorities seem to have no other viable alternative s. RUNGTA MINES LTD.	Agreed	

Authorized Signatory

ory Site Engineer Manager (Tech.) Manager (Te I PIU Dhenka

	have adequate strength and be RUNGTA MINES LTD.		
(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	Agreed	
(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 (Crossing not available)	
(b)	Is it on a line normal to NH	Yes	
(a)	Existing drainage structures shall not be allowed to carry the lines.	Agreed	
	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 ( Crossing not available )	
1.18	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.  If crossing of the road involved.		
(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	Agreed	
(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	
	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 inspection and repairs etc.		

पश्चिमांगिक निर्मा Authorized Signatory Site Engineer भारतीय राष्ट्रीय राजवार प्रीक्षिक्रिय राष्ट्रीय राजवार प्रीक्षिक्र Authority of India Highways Authority of India Highways Authority of India प्राचीय राजवार प्रीक्षिक्र साथ राष्ट्रीय राजवार प्रीक्षिक्र साथ राष्ट्रीय राजवार प्रीक्षिक्र Authority of Project Implementation Unit-Dhenkanal Person / PIU Dhani

	large enough to permit ready withdrawal of the carrier pipe/cable.		
(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 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	
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	Agreed	

विष्यां का विष्यां विषयां Authorized Signatory Site Engineer Manager (Tech.)

National Highways Authority of Indigerally राज्याम प्रशिक्षण PROJECT DIRECTOR (तकनीक)

Project Implementation Unit-Dhenkan ational Highways Authority of Indigeral सामित्र प्राप्तिय राज्याम प्रशिक्षण PROJECT DIRECTOR (तकनीक)

Project Implementation Unit-Dhenkan ational Highways Authority of Indigeral Highways Indigeral Highw

	their top is at least 0.6 meter below the ground level so as not to obstruct drainage of the road land.		
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 Slurry Pipeline & OFC Duct chainage, width of ROW, distance of proposed pipe line 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, Horizontal Directional Drilling method for laying of Pipelines across NH (Methodology Enclosed)	
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)	The trench width should be at 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)	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 RUNGTA MINES LTD.	Agreed	

(B&T Iron Ore Beneficiation Plant)

Authorized Signatory

Site Engineer Manager (Tech.) परियजना निर्देशक
National Highways Authority of शिस्तिवीय राष्ट्रीय राजमार्गे प्रीधिकर ROJECT DIRECTOR
Project Implementation Unit-Dhenk विश्वामार्थ Highways Authority of मिल्लियो राष्ट्रीय राजमार्गे प्रधिकर परिवास परिवास परिवास परिवास परिवास परिवास परिवास अधिकर परिवास परिवास अधिकर स्थान स्था

	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.		
(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.	Horizontal Directional Drilling (HDD) Method	Methodology Enclosed	
2.4.	Laying of Slurry Pipeline & OFC Duct through CD works and method of laying	At all CD work locations HDD method will be adopted.	
(a)	On approaches, the Slurry Pipeline & OFC Duct 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)	Agreed	
MAG	as a security for ensuring / making good the excavated trench for laying the . RUNGTA MINES LTD.		

प्रबंधक (तकनीक) Manager (Tech.) भारतीय राजमागं प्रीधिकरण

Authorized Signatory Site Engineer भारतीय राष्ट्रीय राजमार्ग ग्रीधिकरण परियजना निर्देशक National Highways Authority of Inflational Highways A

	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.		
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	3
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	
5.4	Shifting of Slurry Pipeline & OFC Duct 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 Slurry Pipeline & OFC Duct 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 & OFC Duct 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 Slurry Pipeline &	Agreed	

Site Engineer

Authorized Signatory National Highways Authority of Intilate and Highways Authority of Intilate मारतीय राज्यार्ग प्रतियं मारतीय राज्यार्ग प्रविकर Project Implementation Unit-Dhenillational Highways Authority of Intilated Highways Authority of Intilated

	OFC Duct will be borne by the		
	agency owning the line.		
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	Agreed	
£ 10	intimation given.		
5.12	Certificate from the applicant in the following format  (i) Laying of Slurry Pipeline & OFC Duct will not have any deleterious effects on any of the bridge components and roadway safety for traffic.	Enclosed	
	(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".	Enclosed	
6	Who will sign the agreement on behalf of Slurry Pipeline & OFC Duct agency	Mr. Pranaya Kumar Deo (Chief General Manager- Commercial) Rungta Mines Limited, Barbil. (Authorization Letter Enclosed)	
7	Certificate from the Project Director		
7.1	Certificate for confirming of all standard condition issued vide Ministry Circular No.  1. Ministry Circular No. NH-41(58)/68 dated 31.1.1969 2. Ministry Circular No.	Enclosed	

प्रबंधक (तकनीक) पर्शिजभी निर्देशक Manager (Tech.) पर्शिजभी निर्देशक Manager (Tech.) PROJECT DIRECTOR National Highways Authority of Indian Relational Highways Author

Authorized Signatory

	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-11037/1/86- 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. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016 9. Ministry Circular No. RW/NH-37011/52/2020-BP&SP dated	
7.2	Certificate from PD in the following format  (i) "It is certified that any other location of the Slurry Pipeline, & OFC Duct would be extremely difficult and unreasonable costly and the installation of Slurry Pipeline & OFC Duct 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."	Enclosed

(B&T Iron Ore Beneficiation Plant)

Authorized Signatory

Consunym natory Site Engineer भारतीय राष्ट्रीय राजकार्ग प्रीधिकरण PROJECT DIRECTOR
National Highways Authority of Indiaional Highways Author

(ii) For 6- laning (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." (b) In case feasibility	Enclosed
report is not available, " I do certify that sufficient ROW is available at site for accommodating proposed six-laning."	Enclosed

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 & OFC Duct	Rungta Mines Limited	
10	Who will ensure that the defects in road portion after laying of Slurry Pipeline & OFC Duct are	Rungta Mines Limited	

Authorized Signatory

Site Engineer

Project Implementation Unit-Dhenka Policy

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	corrected and if not corrected then what action will be taken.		
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	Annexure- C

Authorized Signatory

Site Engineer
National Highways Authority of India
Project Implementation Unit-Dhenkanal

प्रबंधक (तकनीक) Manager (Tech.) भारतीय राश्टीय राजमाग प्रीधिकरण National Highways Authority of India प.का.इ.,ढेंकानाल/P.I.U.,Dhenkanal

Comprision

परियजना निर्देशक PROJECT DIRECTOR भारतीय राष्ट्रीय राजमार्ग प्रधिकरण National Highways Authority of India प का.इ ढेकानाल / PIU Dhenkanal