



सत्यमेव जयते

# 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

दूरभाष / Ph.: 0674 - 2361470/ 570/670 (का/ओ)

ई-मेल/e-mail : roodisha@nhai.org, ronhaiodisha@gmail.com, वेबसाइट/Web : www.nhai.gov.in



NHAI/13011/54/RO/OD/ 2703/2023

13.10.2023

To

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

**Sub:** Rehabilitation and up gradation of Four/Six laning of Puintola to Tangi (km 284+0- Km.359+590) section (Pkg II) of NH 5 (New NH-16) in the state of Odisha on EPC mode – Execution of 02 Nos. Individual Rural Piped water supply projects pertaining to (i) Chilika, Tangi, Banapur Blocks & (ii) Khordha, Jatani of Khordha Districts including 5 years of O&M regarding RoW clearance from NH for laying of pipe in Chilika scheme of Khordha district- Reg

**Ref:** PD, PIU- Berhampur letter No. 391 dated 06.07.2023

Sir,

Please find enclosed herewith a proposal of Executive Engineer, RWSS Division, Bhubaneswar for laying of water supply pipeline in Chilika, Tangi, Banapur Blocks & (ii) Khordha, Jatani of Khordha Districts. The details is enclosed at **Annexure-A**.

2. Accordingly, as per guidelines issued by MoRT&H 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 Regional Officer, Odisha.

Yours faithfully,

(Sunil Kumar)  
General Manager (Tech)



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

## National Highways Authority of India

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NHAI/13011/54/RO/OD/ 2702/2023

13.10.2023

### INVITATION OF PUBLIC COMMENTS

**Sub:** Rehabilitation and up gradation of Four/Six laning of Puintola to Tangi (km 284+0- Km.359+590) section (Pkg II) of NH 5 (New NH-16) in the state of Odisha on EPC mode – Execution of 02 Nos. Individual Rural Piped water supply projects pertaining to (i) Chilika, Tangi, Banapur Blocks & (ii) Khordha, Jatani of Khordha Districts including 5 years of O&M regarding RoW clearance from NH for laying of pipe in Chilika scheme of Khordha district- Reg

Executive Engineer, RWSS Division, Bhubaneswar has submitted a proposal for laying of water supply pipolino in Chilika, Tangi, Banapur Blocks & (ii) Khordha, Jatani of Khordha Districts. The details is enclosed at **Annexure-A**.

2. As per guidelines issued by MoRT&H 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 are 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](mailto:roodisha@nhai.org)

This is issued with the approval of RO, Odisha.

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



# CHECK - LIST

Greek List for getting approval for laying of Industrial water Supply Pipe Line on NHAI Land No -16

Check List			
Sl. No.	Item	Information/status	Remarks
1.	General information	Permission for laying water Supply pipeline of Chainage 320+700 Km to 357+410 Km On NH -16 in Khurda District.	
1.1	Name and address of the Applicant/ Agency	RWSS Executive Engineer, RWSS Division, Bhubaneswar	
1.2	National highway number	NH - 16.	
1.3	State	Odisha.	
1.4	Location	Barakul to Tangi of Khurda District	
1.5	Chainage in Km	A) From 320+700 Km to 357+410 Km	
1.6	Length in Meters	38710 (Along and Across NH)	Details attached in Annexure-I
1.7	Width of available ROW	Mentioned in drawing.	
	a) Left side from centre line towards increasing chainage/km. direction		
	b) Right side from centre line towards increasing chainage/km. direction		
1.8	Proposal to lay underground electrical cable	Pipeline will be laid along the NH-16 at location mentioned in EI No — 1.4 & 1.6.	
	a) Left side from centre line towards increasing chainage/km. direction	No	
	b) Right side from centre line towards increasing chainage/km direction	N/A	
1.9	Proposal to acquire land	No NH land will be acquired for pipeline laying	
	a) Left side from center line	N/A	
	b) Right side from Center line	N/A	
1.10	Whether proposal is in the same side where land is not to be acquired	N/A	
	If not, then where to lay the cable	N/A	
1.11	Details of already laid services, if any, along the proposed route.	N/A	
1.12	Number of lanes (2/4/6/8 lanes) existing.	6.0 Lanes	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	6.0 Lanes	
1.14	Service road existing or not	Yes	
	If yes, then which side	N/A	
	a) Left side from center line	Approx. 30 mtr	

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प्रियोजना निदेशक/Project Director  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
National Highway Authority of India

*[Signature]*  
30-05-23  
Executive Engineer,  
RWS & S Division,  
Bhubaneswar



	b) Right side from center line	Approx. 30 mtr	
1.15	Proposed Service Road		
	a) Left Side from Center line	NA	
	b) Right side from center line	NA	
1.16	Whether proposal to lay Water Supply pipeline is after the service road or between the service road and main carriageway.	YES	
1.17	<p>The permission for laying of Water/sewage Supply Pipeline shall be considered for approval /rejection based on the Ministry Circulars mentioned as above.</p> <p>a) Carrying of sewage/gas pipe 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.</p> <p>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 super structure of the bridge remains available for inspection and repairs, etc.</p> <p>c) The cost of required extension of the substructure as well as that of the supporting super structure shall be borne by the agency-in-charge of the utilities.</p> <p>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.</p>	<p>Agreed.</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p>	
1.18	<p>If crossing of the road involved</p> <p>If Yes, it shall be either encased in pipes or through structure or conduits specially built for that purpose at the expenses of the agency owning the line</p>	Yes	

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अतिरिक्त निदेश/Project Director  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
National Highway Authority of India  
प.का.ड., बलपुर (P.O., Barampur)

*[Signature]*  
30-05-20  
Executive Engineer  
RWS & S Division  
Bhubaneswar



	a) Existing drainage structures shall not be allowed to carry the lines.	No Pipeline will be laid through and drainage systems/facilities.	
	b) Is it on a line normal to NH	Underground laying along and across to NH	
	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 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 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 m below the drain inverts.	Agreed	
	h) Crossing shall be by boring method (HDD) specially where the existing road pavement is of cement concrete or dense bituminous concrete type.	Agreed	
	i) The casing/conduit Pipeline 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 the Proposal	Yes	
2.4	Cross section showing the size of trench for open trenching method (Is it normal size of 1.2m deep x 0.3m wide) (i) Should not be greater than 60 cm wider than outer diameter of the pipe. (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. (iii) Shall not be permitted to run along the National Highways when the road formation is situated in double cutting. Nor shall these be	Enclosed.	

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	laid over the existing culverts and bridges. (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.		
2.2	Cross section showing the size of pit and location of cable for HDD method.	Yes	
2.3	Strip plan / Route Plan showing Water/sewage Supply Pipe line, Chainage width of ROW, distance of Proposed cable from the edge of ROW, important mile stone, intersections, Cross Drainage works etc.	Yes	
2.4	Methodology for laying of showing Water/sewage Supply pipe line.	open trench and over ground pipe laying method and across NH	
2.4.1	Open trenching method, (May be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous type. If yes, methodology of 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.	Agreed	
	(b) For filling of the trench, Bedding shall be to a depth of not less than 30 cm. 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 materials.	Agreed	
	(c) The backfill shall be completed in two stages (i) sidefill to the level of the top of the pipe and (ii) overkill to the bottom of the road crust.	Agreed	
	(d) The sidefill shall consist of granular materials laid in 15 cm layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the Proctors'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	Agreed	

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	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 expense of agency owning the utility line.	Agreed	
2.4.2	Horizontal Directional Drilling (HDD) Method	Yes	
2.4.3	Laying of Water Supply Pipe Line through CD works and method of laying		
	(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 upto a distance of 30m from the bridge and subject to all other stipulations contained in this Ministry's guidelines issued with letter No. NH/HI/P/88/76 dated 19.11.1976.	Agreed	
3.	Draft License Agreement signed by two witnesses.	Yes Agreed and Enclosed.	
4	Performance Bank Guarantee in favour of NHAI has to be obtained @ Rs.250/- 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 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	Yes Agreed, BG will be submitted as intimated by NH	
4.1	Performance BG as per above is to be obtained.	BG will be submitted as intimated by NH	
4.2	Confirmation of BG has been obtained as per NHAI guidelines.	Agreed	
5	Affidavit / Undertaking from the Applicant for		
5.1	Not to Damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency.	Yes and Undertaking Enclosed.	
5.2	Renewal of Bank Guarantee	Shall be submitted.	
5.3	Confirming all standard condition of NHAI's guideline	Yes and Undertaking Enclosed	
5.4	Shifting of Water Supply Pipe Line as and when required by NHAI at their own cost.	Yes and Undertaking Enclosed	

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30.05.23  
Executive Engineer  
RWS & S Division  
Bhubaneswar



5.5	Shifting due to d lanning / widening of NH	Yes and Undertaking Enclosed	
5.6	Indemnity against all damages and claims clause (xxiv)	Yes and Undertaking Enclosed	
5.7	Traffic movement during laying of Water Supply pipe line to be managed by the applicant.	Yes and Undertaking Enclosed	
5.8	If any claim id raised by the Concessionaire then the same has to be paid by the applicant.	Yes and Undertaking Enclosed	
5.9	Prior approval of MHAJ shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the showing Water Supply pipe line located in the National Highway right-of-ways.	Yes and Undertaking Enclosed	
5.10	Expenditure, if any incurred by NHAJ for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the Water Supply pipe line will be borne by the agency owning the line.	Yes and Undertaking Enclosed	
5.11	If the NHAJ 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 NHAJ at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given.	Yes and Undertaking Enclosed	
5.12	Certificate from the applicant in the following format. i) Laying of Water Supply pipe line will not have any deleterious effects on any of the bridge components and roadway safely for traffic. ii) for 6 fanning "We do undertake that I will relocate service road/approach road/utilities at any own cost notwithstanding the permission granted within such time as well as stipulated by NHAJ" for future six- lanning or any other development. "	Certificate and Undertaking Enclosed.	
6	Who will sign the agreement on behalf of Water Supply Pipe Line agency	Executive Engineer, RWSS Division, Thapovan, PO-Khandagiri Bhubaneswar. PIN-751030	
7.	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 31.01.1969, Ministry Circular No NH-III/P/66/76 dated 18/19.11.1976, Ministry Circular No. RW/NH-III/P/66/76 dated	Enclosed	

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R.B.

*[Signature]*  
30.05.17

Project Director  
National Highways Authority of India  
Bhubaneswar





11.	Who will pay the claims for damages done/disruption in working of Concessionaire of asked by the Concessionaire.	Executive Engineer, RWSS Division, Thapovan, PO-Khandagiri Bhubaneswar. PIN-751030	
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).	Enclosed.	
13.	If any previous approval is accorded for laying of underground Water Supply pipe line then Photocopy of register of records of permissions accorded as maintained by PD then copy be enclosed.	N/A	

Attest. T  
(S.E.)

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RB

*[Signature]*  
20-05-19  
Executive Engineer  
RWS & S Division  
Bhubaneswar  
Executive Engineer,  
RWSS Division, Thapovan,  
PO-Khandagiri  
Bhubaneswar.  
PIN-751030

*[Signature]*  
General Director  
National Highways Authority of India  
P.O. Box, Berhampur