



# 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/ 112/2024

12.01.2024

To

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

Sub: Rehabilitation and up gradation to six laning of Bhadrak- Balasore section of NH-5 (New NH-16) from Km.136+500 to Km.199+141 in the State of Odisha to be executed on Hybrid Annuity Mode under NHDP Phase-V- Laying of water supply pipeline from Km.192+080 to Km.193+680 of NH-16 and crossing at Km.193+680 in Balasore District- Reg

Ref: PD, PIU- Chandikhole letter No. 1319 dated 05.12.2023

Sir,

Please find enclosed herewith a proposal of Superintending Engineer, RWSS Division, Balasore for laying of water supply pipeline from Km.192+080 to Km.193+680 of NH-16 and crossing at Km.193+680 in Balasore District. The details are as under:

Sl No	Description	Chainage	Dia of DI pipeline (mm)	Dia of MS casing pipe (mm)	RHS/LHS	Remark
1.	Along	Km.192+080 to Km.193+680	900	NA	RHS	Open Trench
2.	Across	Km.193+680	900	1200	NA	HDD Method

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 (Ministry of Road Transport & Highways, Govt of India)

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  
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/ 111 /2024

12.01.2024

## INVITATION OF PUBLIC COMMENTS

**Sub:** Rehabilitation and up gradation to six laning of Bhadrak- Balasore section of NH-5 (New NH-16) from Km.136+500 to Km.199+141 in the State of Odisha to be executed on Hybrid Annuity Mode under NHDP Phase-V- Laying of water supply pipeline from Km.192+080 to Km.193+680 of NH-16 and crossing at Km.193+680 in Balasore District- Reg

Superintending Engineer, RWSS Division, Balasore has submitted a proposal for laying of water supply pipeline from Km.192+080 to Km.193+680 of NH-16 and crossing at Km.193+680 in Balasore District. The details are as under:

Sl No	Description	Chainage	Dia of DI pipeline (mm)	Dia of MS casing pipe (mm)	RHS/LHS	Remark
1.	Along	Km.192+080 to Km.193+680	900	NA	RHS	Open Trench
2.	Across	Km.193+680	900	1200	NA	HDD Method

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 Regional Officer, Odisha.



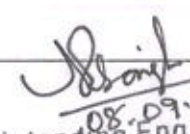
(Sunil Kumar)  
General Manager (Tech)  
National Highways Authority of India,  
Regional Office, Odisha  
301-A, 3rd Floor, Pal Heights,  
J/7, Jayadev Vihar, Bhubaneswar 751013



## Checklist for getting approval for laying of Water Supply Pipe Line on NH land.

### Relevant circulars

- 1) Ministry Circulars No. NH-41(58)/68 dated 31.01.1969.
- 2) Ministry Circulars No. NH-III/P/66/76 dated 18/19.11.1976.
- 3) Ministry Circulars No. RW/NH-III/P/66/76 dated 11.5.1982.
- 4) Ministry Circulars No. RW/NH-11037/86-DOI(ii) dated 28.07.1993.
- 5) Ministry Circulars No. RW/NH-11037/1/86/DOI dated 19.01.1995.
- 6) Ministry Circulars No. RW/NH-34066/2/95/S&R dated 25.10.1999.
- 7) Ministry Circulars No. RW/NH-34066/7/2003 S&R(B) dated 17.09.2003.

Sl.S	Item	Information/Status	Remarks
1	General Information	Permission for laying of water pipe line at Chainage 192+080 to 193+680.  RHS-1600MM  Crossing of water pipe line of 900 mm dia at 193+680  On NH-16 in Balasore District	
1.1	Name and address of the applicant/agency	Superintending Engineer PHEO Division Balasore At-Balasore.	 PROJECT DIRECTOR, NATIONAL HIGHWAYS AUTHORITY OF INDIA PIU-CHANDIKHOLE
1.2	National Highway Number	NH-16	
1.3	State	Odisha	
1.4	Location	Remuna Golei	
1.5	(Chainage in Km.)	KM 192+080 to 193+680 RHS laying Pipe Lines  900 mm dia Ch. 192+080 to 193+680 (Open Cutting method)	
	(Chainage in Km.)	NA (LHS laying Pipe Line)	 Team Leader cum Senior Highway Engineer
		At KM 193+680 Crossing laying of Pipe Lines.  900 mm dia at 193+680	
1.6	Length in Meters.	RHS-1600 MM	 08.09.23 Superintending Engineer P.H. Division, Balasore

1.7	Width of available Row		
	(a) Left side from centre line towards increasing chainage/km. direction	30 meter	
	(b) Right side from centre line towards increasing chainage/km. direction.	30 meter	
1.8	Proposal to lay underground Water Pipeline.		
	(a) Left side from center line towards increasing chainage/km direction.		
	(b) Right side from center line towards increasing chainage/km direction.		
1.9	Proposal to acquire land	Not Applicable	
	(a) Left side from centre line.	Nil	
	(b) Right side from centre line.	Nil	
1.10	Whether proposal is in the same side where land is not to be acquired If not then where to lay the cable	Both from center line	
1.11	Details of already laid services, if any, along the proposed route		
1.12	Number of lanes (2/4/6/8 lanes) existing	4	
1.13	Proposed number of lanes (2 lane with paved shoulders/4/6/8 lanes)	6 Lane	
1.14	Service road existing or not If yes then which side	Yes	
	(a) Left side from center line	7.5 m	
	(b) Right side from center line	7.5 m	
1.15	Proposed service road	List Attached	PROJECT DIRECTOR, NATIONAL HIGHWAYS AUTHORITY OF INDIA PIU-CHANDIKHOLE
	(a) Left side from centerline		
	(b) Right side from center line		
1.16	Whether proposal to lay Water supply pipe line is after the service road or between the service road and main carriageway	After service road	
1.17	The permission for laying of water supply pipe line 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.	NA	

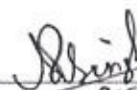
*[Signature]*

08.09.22  
Superintending Engineer  
P.H. Division, Balasor

*[Signature]*  
Team Leader cum  
Senior Highway Engineer



(b)	Carrying of water pipe lines 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 inspection and repairs etc.	Agreed	
(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.	Pipe line will be crossed by trench less method (Jack Pushing) Detailed drawing enclosed	
(a)	Existing drainage structures shall not be allowed to carry the lines.	Agreed	PROJECT DIRECTOR, NATIONAL HIGHWAYS AUTHORITY OF INDIA PIU-CHANDIKHOLE
(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 and detailed drawing enclosed.	
(d)	The casing pipe(or conduit pipe in the case of electric cable) carrying the utilityline 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.		

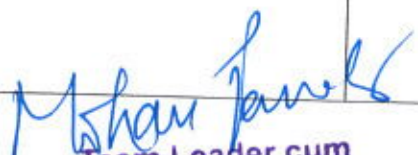
  
 06-09-23  
 Subin  
 Superintending Engineer  
 P.H.Division, Balasore

  
 Mishan Sen  
 Team Leader cum  
 Senior Highway Engineer


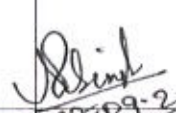
(e)	Ends of the casing/conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.	Yes agreed	
(f)	The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope in the fills.	Yes agreed	
(g)	The top of the casing/conduit pipe should be at least 1.2 meter below the surface of the road subject to being at least 0.3 mtr below the drain inverts.	Yes agreed	
(h)	Crossing shall be by boring method (HDD) specially where the existing road pavement is of cement concrete or dense bituminous concrete type.	Trench less Method(Jack Pushing) details in attached sketch.	
(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.	Yes agreed	
2	Document / Drawings enclosed with proposal	Attached.	
2.1	Cross section showing the size of trench for open trenching method.(Is it normal size of 1.2m deep X0.3m wide).	Details shown in the drawing attached.	
(i)	Should not be greater than 60cm. Wider than the outer diameter of the pipe.	Yes 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.	Yes 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.	Yes agreed.	

  
 08-09-22  
 Superintending Engineer  
 P.H. Division, Balasore

  
 PROJECT DIRECTOR,  
 NATIONAL HIGHWAYS AUTHORITY OF INDIA  
 PIU-CHANDIKHOLE


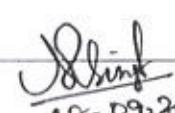
  
 Team Leader cum  
 Senior Highway Engineer



(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.	Yes agreed.	
2.2	Cross section showing the size of the pit and location of cable for HDD method.	Attached Annexure.	
2.3	Strip plan / Route plan showing water supply pipe line, chainage, width of ROW, distance of proposed pipe line from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Attached Annexure.	
2.4	Methodology for laying of proposed water supply pipe line.	Attached Annexure.	
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.		
(a)	The trench width should be at least 30cm, but not more than 60 cm wider than the outer diameter of the pipe.	Yes agreed.	 PROJECT DIRECTOR, NATIONAL HIGHWAYS AUTHORITY OF INDIA PIU-CHANDIKHOLE
(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.	Yes 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.	Yes 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.	Yes 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	Yes agreed.	 08-09-23 Superintending Engineer I. Division, Balasore

Team Leader cum


Senior Highway Engineer

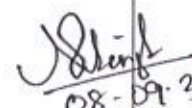
	taken to avoid the formation of a dip at the trench.		
(f)	The excavation shall be protected by flagman, signs and barricades and redlights during night hours.	Yes agreed.	
(g)	If required, a diversion shall be constructed at the expenses of agency owning the utility line.	Yes agreed.	
2.4.2	Horizontal Directional Drilling(HDD) Method		
2.4.3	Laying of water supply pipe line through CD works and method of laying	At all CD work location Trench less (Jack Pushing method will be adopted.	
(a)	On approaches, the water supply 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 30m 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	Yes, Agreed and enclosed.	
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.	Yes Agreed. BG will be submitted as intimated by NHAI.	 PROJECT DIRECTOR, NATIONAL HIGHWAYS AUTHORITY OF INDIA PIU-CHANDIKHOLE
4.1	Performance BG as per above is to be obtained.	BG will be submitted as intimated by NHAI.	
4.2	Confirmation of BG has been obtained as per NHAI guidelines	Yes 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 Undertake Enclosed.	 68-09-22 Superintending Engineer P.H.Division, Balasore

Team Leader cum


Senior Highway Engineer

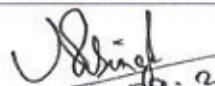


5.2	Renewal of Bank Guarantee.	Shall be submitted.	
5.3	Confirming all standard condition of NHAI's guidelines.	Yes, and Undertake Enclosed.	
5.4	Shifting of Water supply pipe line as and when required by NHAI at their owncost.	Yes, and Undertake Enclosed	
5.5	Shifting due to 6 laning/widening of NH.	Yes, and Undertake Enclosed	
5.6	Indemnity against all damages and claims clause(xxiv).	Yes, and Undertake Enclosed	
5.7	Traffic movement during laying of watersupply pipeline to be managed by the applicant.	Yes, and Undertake Enclosed	
5.8	If any claim is raised bythe Concessionaire then the same has to be paid by the applicant.	Yes, and Undertake Enclosed	
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 supply pipe line located in the National Highway right of ways.	Yes, and Undertake Enclosed	
5.10	Expenditure, if any incurred by NHAI forrepairing 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 Undertake Enclosed	 PROJECT DIRECTOR, NATIONAL HIGHWAYS AUTHORITY OF INDIA PIO-CHANDIKHOLE
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.	Yes, and Undertake Enclosed	
5.12	Certificate from the applicant in the following format (i) Laying of water supply pile line will not have any deleterious effects on any of the bridge components and roadwaysafety for traffic. (ii) For 6-laning" We do undertake that we will relocate serviceroads/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	Certificate and Undertake Enclosed.	

  
08-09-23  
Superintending Engineer  
P.H.Division, Balasore



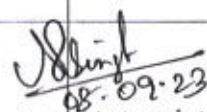
  
Team Leader cum  
Senior Highway Engineer

	any other development"		
6	Who will sign the agreement on behalf of water supply pipe line agency	Superintending Engineer, PHED Department Balasore Division , Balasore.	
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 31.1.1969 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- 11037/1/86-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.	Enclosed	 <b>PROJECT DIRECTOR,</b> <b>NATIONAL HIGHWAYS AUTHORITY OF INDIA</b> <b>PIU CHANDIKHOLE</b>

  
 08.09.22  
 Superintending Engineer  
 P.H. Division, Balasore

  
**Team Leader cum**  
**Senior Highway Engineer**



7.2	<p>Certificate from PD in the following format</p> <p>" It is certified that any other location of the Water Supply Pipe line would be extremely difficult and unreasonable costly and the installation of Water Supply pipe line within ROW will not adversely affect the design, stability and trafficsafety of the highway nor the likely future improvement such as widening of the carriageway, easing of curve etc."</p>	Enclosed	
	<p>(i) 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 structure at the said location.</p> <p>b) In case feasiability report is not reported " I do certify that sufficient ROW is available at site for accommodating proposed six laning.</p>	<p>Agreed</p> <p>NA</p>	 <p>PROJECT DIRECTOR, NATIONAL HIGHWAYS AUTHORITY OF INDIA PIU-CHANDIKHOLE</p>
8	<p>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."</p>	Clause is inserted in the agreement.	 <p>Team Leader cum Senior Highway Engineer</p>
9	Who will supervise the work of laying of water Supply pipe line	Applicant	 <p>08.09.23 Superintending Engineer Bilaspur, Balasore</p>

10	Who will ensure that the defects in road portion after laying of water supply pipe line are corrected and if not corrected then what action will be taken.	Applicant	
11	Who will pay the claims for damages done/disruption in working of concessionaire if asked by the concessionaire.	Applicant	
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 that photocopy of register of records of permissions accorded as maintained by PD then copy be enclosed	NA	

*J. Singh*  
08.09.23

Superintending Engineer  
P.H.Division, Balasore

*M. Hanumanth*  
Team Leader cum  
Senior Highway Engineer

*J. Singh*  
PROJECT DIRECTOR,  
NATIONAL HIGHWAYS AUTHORITY OF INDIA  
PIU-CHANDIKHOLE