



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 : J7, 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/ 1547 /2025

16.07.2025

To

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

Sub: Tangi - Bhubaneswar section of NH-16: Permission for Laying of Water Pipeline Along & Across NH-16 from Km. 404+278 to Km. 407+445 - Reg.

Ref: PD, PIU- Berhampur letter no. 520 dated 02.07.2025

Sir,

Please find enclosed herewith proposal of RWSS, Division Berhampur Bhubaneswar for laying of Water Pipeline from Km. 404+278 to Km. 407+445 in NH-16 in the state of Odisha. The details are as under:

S. No	Chaninage		Along/ Across	Length (in Km.)	DI Pipe Dia. (in mm)	Casing Pipe Dia. (In mm)	Remarks
	From Km	To Km					
1	406.292	407.445	Along LHS	1.153	200	-	All Crossings through HDD method
2	406.292	407.445	Along RHS	1.153	160	-	
3	404.278	406.292	Along RHS	2.014	100	-	
4	405.833	406.292	Along RHS	0.459	90	-	
5	406.292	407.445	Along RHS	1.153	160	-	
6	406.292		Crossing	0.060	200	600 (MS)	
/	406.292		Crossing	0.060	160		

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.

This is issued with the approval of Regional Officer, Odisha.

Yours Sincerely,

Amit Kumar Gupta

(Amit Kumar Gupta)
Dy. General Manager (Tech)



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NHAI/13011/54/RO/OD/

/2025

16.07.2025

INVITATION OF PUBLIC COMMENTS

Sub: Tangi - Bhubaneswar section of NH-16: Permission for Laying of Water Pipeline Along & Across NH-16 from Km. 404+278 to Km. 407+445 - Reg.

M/s RWSS has submitted a proposal for RWSS, Division Berhampur Bhubaneswar for laying of Water Pipeline from Km. 404+278 to Km. 407+445 in NH-16 in the state of Odisha. The details are as under:

S. No	Chaninage		Along/ Across	Length (in Km.)	DI Pipe Dia. (in mm)	Casing Pipe Dia. (In mm)	Remarks
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5	406.292	407.445	Along RHS	1.153	160	-	
6	406.292		Crossing	0.060	200	600 (MS)	
7	406.292		Crossing	0.060	160		

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

This is issued with the approval of RO, Odisha.

A. K. S.

Dy. 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

Guidelines for Executive Engineer for processing the proposal for laying of Water Supply Pipe Line in the land along NHAI

Relevant Circulars

- 1) Ministry Circular No. NH-41 (58)68 dated 31.01.1969
- 2) Ministry Circular No. NH-III/P/66/76 dated 18/19.11.19776
- 3) Ministry Circular No. RW/NH-III/P/66/76 dated 11.5.1982
- 4) Ministry Circular No. RW/NH-11037/1/86-DOI (ii) dated 28.7.1993
- 5) Ministry Circular No. RW/NH-11037/1/86/DOI dated 19.1.1995
- 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 17.9.2003

Check List for getting approval for laying of water Supply Pipeline on NHAI Land No16

Check list			
SI.NO	Item	Information/status	Remarks
1	General information	Permission for laying of water supply pipeline of chainage 404+278 km to 407+470 km on NH-16 in Khordha District	
1.1	Name and address of the Applicant/ Agency	Executive Engineer, RWSS Division, Bhubaneswar	
1.2	National Highway number	NH-16	
1.3	State	Odisha	
1.4	Location	In between Kalinga Vihar Chowk to Retang Chowk of Khordha District	
1.5	Chainage in KM	From 404+278 km to 407+470 km	
1.6	Length in meters (Pipe Laying)	3192m CWRM (Along NH-16) Chainage 404+278 To 407+470 1637m Distribution (Along NH-16) Chainage 404+278 To 407+470	Details attached in annexure-1
1.7	Length in meters (Pipe Crossing)	60m CWRM (Across NH-16) Chainage 404+278 km To 406+292 60m Distribution (Across NH-16) Chainage 407+470 km To 406+292	Details attached in annexure-1
1.8	Width of available ROW	Mentioned in drawing	
	a) Left side from center line towards increasing chainage/km. direction	As available as per site	
	b) Right side from the center line towards increasing chainage/km. direction	As available as per site	

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National Highways Authority of India


Executive Engineer
RWSS & S Division
Bhubaneswar

1.9	Proposal to lay underground electrical cable	The pipeline will be laid along & across the NH-16 at location mentioned in SI No -1.4 & 1.6. and as per attached Annexure.	
	a) Left side from center line towards increasing chainage/km. direction	NIL	
	b) Right side from the center line towards increasing chainage/km. direction	NIL	
1.10	Proposal to acquire land	NIL	
	a) Left side from center line	NIL	
	b) Right side from Center line	NIL	
1.11	Whether the 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	
1.12	Details of already laid services, if any, along the proposed route.	N/A	
1.13	Number of lanes (2/4/6/8 lanes) existing	6.0 Lanes	
1.14	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	6.0 Lanes	
1.15	Service road existing or not	Yes	
	If yes, then which side		
	a) Left side from center line	Approx 30mtr ✓	
	b) Right side from center line	Approx 30mtr ✓	
1.16	Proposed Service Road		
	a) Left side from center line	N/A	
	b) Right side from center line	N/A	
1.17	Whether proposal to lay Water Supply pipeline is after the service road or between the service road and main carriageway.	Yes	
1.18	The permission for laying of Water/sewage Supply Pipeline shall be considered for approval /rejection based on the Ministry Circulars mentioned above. a) Carrying sewage gas pipeline 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. b) Carrying water pipelines on bridges shall also be discouraged. However, if the water supply authorities seem to	Agreed. NA	

1.19	have no other viable alternative and approach the highway authority well in time before the design of the bridge is finalized, they any be permitted to carry the pipeline on independent superstructure, supported on extended portions of piers and abutments in such a manner that in the final arrangement enough free spade around the super structure of the bridge remains available for inspection and repairs, etc.	NA	
	c) 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.	NA	
	d) Services are not being allowed indiscriminately on the parapet/any Part of the bridges, Safety of the bridges must be kept in view while permitting various services along ridge. Approvals are to be accorded in this regard with the Concurrence of the Ministry's Project chief engineers only	NA	
	If crossing of the road is involved 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	Yes	
		Yes	
	a) Existing drainage structures shall not be allowed to carry the lines.	No pipeline will be laid through any drainage systems/ facilities	
	b) Is it on 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 meters What is the distance from the existing structures	Agreed	
	d) The casing pipe (or conduct pipe in the case of electric cable) carrying the utility line shall be of steel, cast iron or reinforced cement concrete	Agreed	

	and have adequate strength and be 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 minimums 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 meters 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 DI Pipeline shall be installed with an even bearing throughout its length and in such a manners to prevent formation of a waterway along it.		
2.	Document / Drawings enclosed with the Proposal	Yes	
2.1	Cross section showing the size of trench for open trenching method (Is It's normal size of 1.2m deep x 0.3m wide) i) Should not be greater than 60 cm wider than the 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 meters from the centerlines of the nearest carriageway. iii) Shal not be permitted to run along National! Highways when the road formation is situated in double cutting nor shall these be laid over the existing culverts and bridges.	Enclosed	



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National Highways Authority of India
प का इ बहापर/PIIJ. Berhampur


Executive Engineer
RWS & S Division
Bhubaneswar

	(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 Pipeline, Chainage width of ROW, distance of Proposed cable from the edge of ROW, important milestone, intersections, Cross Drainage works etc.	Yes	
2.4	Methodology for showing Water/sewage Supply pipeline	Open trench and over ground pipe laying method and trenchless method across NH.	
2.4.1	Open trenching method, (May be allowed in utility corridors 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, clouds and cobbles and graded to yield firm surface without sudden change in the bearing value. Unsuitable soil and rock edged should be excavated and replaced selected materials.	Agreed	
	(c) The backfill shall be completed in two stages (i) side fill to the level of the top of the pipe and (ii) overkill to the bottom of the road crust.	Agreed	
	(d) the side fill 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' Density. Overfill shall be compacted to the same density as the material that had been	Agreed	


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	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 expense of agency owning the utility line	Agreed	
2.4.2	Horizontal Directional Drilling (HDD) Method	Yes ✓	
2.4.3	Laying of Water Supply Pipeline 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 up to 30m from the bridge and subject to all other stipulations contained in this Ministry's guidelines issued with letter No. NH/HUP/66/76. Dated 19.11.1976	Agreed	
3.	Draft License Agreement signed by two witnesses	Yes, Agreed and Enclosed.	
4.	Performance Bank Guarantee in favor 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	


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National Highways Authority of India
ए का ड बहापुर/PIU, Berhampur**

**Executive Engineer
RWS & S Division
Bhubaneswar**


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 utilities, 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 conditions of NHAI'S guideline	Yes, and Undertaking Enclosed	
5.4	Shifting of water supply pipelines as and when required by NHAI at their own cost.	Yes, and Undertaking Enclosed	
5.5	Shifting due to lining / 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 pipeline 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 NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the showing Water Supply pipeline located in the National Highway rights-of-way	Yes, and Undertaking Enclosed	
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 Supply pipeline will be borne by the agency owning the line.	Yes, and Undertaking Enclosed	
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 will be carried out as desired by the NHAI 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 pipeline will not have any deleterious e//etc./s on	Certificate, and Undertaking Enclosed	


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	<p>any of the bridge components and roadway ma/e/y for traffic.</p> <p>ii) for 6 fanning "We do undertake that I will relocate road/approach road/utilities at any Own cost not with standing the permission granted within such time as well as stipulated by NHAI" for future six-Earning or any other development</p>		
6.	Who will sign the agreement on behalf of Water Supply Pipeline agency	Executive Engineer, RWSS Division, Thapovan, Po- Khandagiri, Bhubaneswar PIN-751030	
7.	Certificate from the Project Director		
7.1	<p>Certificate for confirming of all standard condition issued wide Ministry Circular No Ministry Circular No. NH-41(58)/68 Dated 31.01.1969, Ministry Circular No NH III/P/66/76 Dated 18/19.11.19/6 ministry Circular No.RW/NH I/P/66/76 11.05.1992, Ministry Circular No-RW/NH-11037/1/86/DOI Dated 28.07.1993, Ministry Circular No RW/NH-11037/86/DOI Dated 19.01.1995, Ministry Circular No. RW/NH 34066/2/95/ S&R dated 25.10.1999 and Ministry Circular No. RW/NH-34066/7/2003 S&R (B) dated 17.09.2003</p>	Enclosed	
7.2	<p>Certificate from PD in the following format</p> <p>i) It is certified that any other location of the Water Supply Pipeline would be extremely difficult and unreasonable costly and the installation of Water Supply pipe line within ROW will not adversely affect the design, stability & 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 fanning</p> <p>a) Where feasibility is available "I do certify that there will be' no hindrance to proposed six lining based on the</p>	<p>To be certified by PD</p> <p>Agreed</p>	



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	<p>feasibility report considering proposed structures at he 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 lining".</p>	N/A	
8.	<p>If the 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/ducts have also been granted as a right of way to the concessionaire under the concession agreement for up-gradation of [.....Section from Km 370/0300 to 370/970 km of NH No.-16 On Build, Operate and Transfer Basis] and therefore, the licensee shall honor the same.</p>	Clause is in Inserted in the draft agreement.	
9.	Who will supervise the work of laying of Water Supply pipeline.	Executive Engineer, RWSS Division, Thapovan, PO- Khandagiri, Bhubaneswar PIN-751030	
10.	Who will ensure that the defects in road portion after laying of Water, Supply pipeline are corrected and if not corrected then what action will be taken.	Executive Engineer, RWSS Division, Thapovan, PO- Khandagiri, Bhubaneswar PIN-751030	
11.	Who will pay the claims for damages done/disruption 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 agreed for laying of underground Water Supply pipeline then Photocopy of register of records of permissions accorded as maintained by PD then copy be enclosed.	N/A	


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