



**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  
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NHAI/13011/54/RO/OD/ 961 /2022

30.03.2022

To

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

**Sub:** Rehabilitation and up-gradation to 4- laning from Km.240+250 i.e. Brahmani Bypass end beside BNR Weigh Bridge to Km.287+200 i.e Rajamunda Section of NH-23 (New NH-143) in the state of Odisha under NHDP-IV Pkg-I-B- Proposal for Laying of Clear Water Rising Main and Distribution Network Pipeline Along/ Across the NH-143 by RWS&S, Rourkela- Reg

Sir,

Please find enclosed herewith a proposal of RWS&S Rourkela for Laying of 90mm to 250mm dia water pipeline with maximum 300mm width along the LHS & RHS of NH-143 from Ch Km 245.910 to Ch Km 250.320 & across Ch Km 246.930 and Ch Km 254.680. The details is as under:

Sl. No.	Chainage		Side	Length (m)	Width of Corridor	Remarks
	From	To				
1	245.910	246.930	LHS	1020	300mm	DI Pipe- 200mm (Header Line) HDPE Pipe-90mm (Distribution Line)
2	245.910	246.930	RHS	1020	300mm	DI Pipe- 200mm (Header Line) HDPE Pipe-90mm (Distribution Line)
3	246.930		Across	60	400mm	Casing pipe 400mm
4	246.930	250.320	LHS	3390	300mm	DI Pipe- 200mm (Header Line) HDPE Pipe-90mm (Distribution Line)
5	246.930	250.320	RHS	3390	300mm	DI Pipe- 200mm (Header Line) HDPE Pipe-90mm (Distribution Line)
6	254.680		Across	60	300mm	Casing pipe 300mm
				<b>8940</b>		

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 host 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, Bhubaneswa.

Yours faithfully,

  
(D.K. Patra)  
Manager (Tech)





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NHAI/13011/54/RO/OD/ 960/2022

30.03.2022

**INVITATION OF PUBLIC COMMENTS**

**Sub:** Rehabilitation and up-gradation to 4- laning from Km.240+250 i.e. Brahmani Bypass end beside BNR Weigh Bridge to Km.287+200 i.e Rajamunda Section of NH-23 (New NH-143) in the state of Odisha under NHDP-IV Pkg-I-B- Proposal for Laying of Clear Water Rising Main and Distribution Network Pipeline Along/ Across the NH-143 by RWS&S, Rourkela- Reg

RWS&S Rourkela has submitted a proposal for laying of 90mm to 250mm dia water pipeline with maximum 300mm width along the LHS & RHS of NH-143 from Ch Km 245.910 to Ch Km 250.320 & across Ch Km 246.930 and Ch Km 254.680. The details is as under:

Sl. No.	Chainage		Side	Length (m)	Width of Corridor	Remarks
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6	254.680		Across	60	300mm	Casing pipe 300mm
				8940		

2. 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](mailto:roodisha@nhai.org)

This is issued with the approval of the "Regional Officer, NHAI, Regional Office, Odisha, Bhubaneswar".

30/3/22  
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 Water Pipe Line In The Land Across National Highway Vested With NHAI

### Relevant Circulars:

1. Ministry Circular No.NH-41 (58)/68 Dated 31-01-1969
2. Ministry Circular No.HN-III/P/66/76 Dated 18/19 -11-1976
3. Ministry Circular No.RW/NJ-111/P/66/76 Dated 01-05-1982
4. Ministry Circular No.RW/NH-11037/1/86-DOI(II) Dated 28 -07-1993
5. Ministry Circular No.RW/NH-11067/1/86-DOI Dated 19-04-1995
6. Ministry Circular No.RW/NH-34066/2/95/S&S Dated 25-10-1999
7. Ministry Circular No.RW/NH-34066/7/2003 S&R Dated 17-09-2003
8. Ministry Circular No.RW/NH-33044/29/2015/ S&R® dt.22<sup>nd</sup> November 2016

### Check list for getting approval for laying of water supply pipe line on NH land

S.NO	ITEM	INFORMATION/STATUS	REMARKS
1	General Information	Permission For Laying Of 90 mm to 250 mm Dia water pipeline with maximum 300 mm width along the LHS & RHS of NH 143 from CH 245.910 to CH 250.320 & across the NH Ch 246.930 and Ch 254.680	Details given in drawing
1.1	Name And Address Of The Applicant	The Superintending Engineer, RWSS Division, Rourkela.	
1.2	National Highway Number	NH -143(23) (Brahmani Bypass end to Rajamunda)	
1.3	STATE	ODISHA	
1.4	Location	Jalda village to Lathikata village	
1.5	Chainage in Km	From Km 245.910 to 250.320 (LHS) Across the NH Ch 246.930 and Ch 254.680	
1.6	Length in Metres	Crossing 2 No's & Along the road 8820 meters	
1.7	Width Of Available Road Of NHAI Land		
	(a) Left Side From Centre Line (Towards Increasing Chainage/KM Direction)	30 m	
	(b) Right Side From Centre Line (Towards Increasing Chainage/KM Direction)	30m	
1.8	Proposal To Lay Underground Water Pipeline	YES	
	(a) Left Side From Centre Line (Towards Increasing Chainage/KM Direction)	from CH 245.910 to CH 250.320	
	(b) Right Side From Centre Line (Towards Increasing Chainage/KM Direction)	from CH 245.910 to CH 250.320	
1.9	Proposal To Acquire Land	Right to use NH ROW as per law	
	(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	NA	
	If Not Then Where To Lay The Water Pipeline	As per site feasibility	
1.11	Details Of Already Laid Service, If Any Along The Propose Route		
1.12	Number Of Lanes (2/4 or 6/8)Existing	Existing 4 Lanes	
1.13	Proposed Number of Lanes (2 Lanes With Paved Shoulders)	NA	
1.14	Service Road (Existing or Not)Y/N If Then Which Side	NA	



	(a)Left Side From Centre Line (Width)	NA	
	(b)Right Side From Centre Line (Width)	NA	
1.15	Proposed Service Road	NA	
	(a)Left Side From Centre Line (Width)	NA	
	Right Side From Centre Line (Width)	NA	
1.16	Whether Proposal To lay Water Supply Pipeline is after the service road or between the service and main carriageway	As per Site Feasibility or Direction of NHAI Team.	
1.17	The permission for laying of water supply pipe line shall be considered for approval/rejection based on the ministry circular mentioned as above		
	(a) Carrying of sewage/gas pipelines on highway bridge shall not be permitted as fumes/gases pipes can accelerate the process of corrosion or may cause explosions,thus,being much more injurious	NA	
	(b)Carrying of water pipe lines on bridges Shall also be discourage(d) However, if the Water supply authorities seem to have no other viable alternative and approach the highway well in time before the design of the bridge is finalized permitted to carry the pipeline on the independent superstructure, supported on extended portion of piers and abutment in such a manner that in the final arrangement enough free space around the superstructure of 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 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 bridge, safety of the bridge has to be kept in view while permitting various services along bridge. Approval is to be accorded in this regard with the concurrence of the ministry's Project Chief Engineers only.	NA	
1.18	If crossing of the road involved If yes, it shall be either encased in pipes or through structures or conduits specially built for that purpose at the expenses of the agency owning the line.	Agreed	
	(a)Existing Drainage Structure Shall not be allowed to carry the line	Agreed	
	(b) is it on a line normal NH	Yes	
	(c) Crossing shall not be too near the existing structure on the National Highway, the minimum distance being 15 meter, what is the distance from the existing structures.	Existing structure not present	
	(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 concert having adequate strength and be large enough to permitted ready withdrawal of the carrier pipe/cable.	Agreed	

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	(e)End of the casing/conduit pipe line shall be Sealed from outside, so that it does not act As a drainage path.	Agreed	
	(f)The casing/conduit pipe shall be sealed From drain to in cuts and line 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 invert.	Agreed	
	(h)Crossing shall be by boring method (HDD) especially where the existing road pavement is of cement concert or dense bituminous concert 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 formation of a waterway along it.	Agreed	
2.0	Document/Drawing enclose with the	Sketch attached	
2.1	Cross section showing the size of the trench for open trench method (it is normal size of 1.2 deep × 0.3 m wide )	Agreed	
	(i)Should not be greater than 60 cm 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 line of the nearest carriage way.	Agreed	
	(iii)Shall not be permitted to run along the National Highway when the road formation is situated in double cutting nor shall these be laid over existing culverts and bridges.	Agreed	
	(iv)These should be also 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 cable for HDD method.	Attached	
2.3	Strip plan/route plan showing water pipe line , Chainage, width of ROW , distance of proposed cable from the edge of ROW , important mile stone , intersection , cross drainage work etc.	Attached	
4	Methodology for laying of water pipe line		
	Open trenching method (may be allowed in the utility corridor only where pavement is neither cement concert nor dense bituminous concert type if yes, methodology or refilling of trench.	Agreed	
	(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 trench , bedding shall be to a depth of 30 cm. it shall consist of granular material free of lumps clods and cobbles and graded to yield a firm surface without sudden changes in the bearing valu(e) Unsuitable soil and rock edges should be excavated and replaced by selected materials	Agreed	
	(c)The backfill shall be completed in two stages	Agreed	



	(i)Side fill the level of the top of the pipe and	Agreed	
	(ii)Overfill to the bottom of the road crust.	Agreed	
	(d)The side fill shall consist of granular Material laid in 15 cm layers each consolidated By mechanical tampering and controlled Addition of moisture of 90% of the proctor's Density as the materials that had been removed Consolidation by saturation or pending will not	Agreed	
	(e)The road crust shall be built to the same Strength as the existing crust on the either side of trench care shall be taken to avoid formation of dip at the trench.	Agreed	
	(f)The excavation shall be protected by flagman, signs and barricades, red lights during the night hours.	Agreed	
	(g)If required, a diversion shall be constructed at the expenses of the agency owning the utility line.	Agreed	
2.4.2	Horizontal Directional drilling (HDD) Method	As applicable	
2.4.3	Laying of water supply pipeline through CD Work and method laying.		
	(a)Open approaches the water mains/cables Shall be carried along a line as close to the edge Of the right of the way as possible up to a distance of 30 m from the bridge and subject to all other stipulation contained in the ministry's guidelines issued with letter NH-HI/66/76 dated 19-11-1976	Agreed	
3	Draft Licence agreement signed by two witness	Submitted	
4	Performance bank guarantee in favour of NHAI has to <u>obtained@RS.50/-</u> 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 satisfactorily completion of work) as a security for ensuring/making.	Agreed	
	Good the excavated trench for laying the cable/duct by proper filling and compaction, clearing debris/loose earth produced due to executing of trenching at least 50 m away from the edge of the right of way no payment shall be payable by NHAI to the license for clearing debris/loose earth	Agreed	
4.1	Performance BG as per above to be obtained	Yes	
4.2	Confirmation of BG has been obtained as per NHAI guidelines.	Yes	
5	Undertaking from the applicant	Enclosed	
5.1	Not to damage to the other utility, if damaged then to pay the loses either to NHAI or to the concerned agency	Agreed	
5.2	Renewal of bank guarantee.	Agreed	
5.3	Confirming all standard condition of NHAI's guidelines	Agreed	
5.4	Sifting of water pipeline as and when required by NHAI at their own cost.	Agreed	
5.5	Sifting due to Lanning/widening of NH.	Agreed	

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Superintending Engineer  
R.W.S & S. Division  
Rourkela


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5.6	Indemnity against all damages and claim clause(XXIV)	Yes	
5.7	Traffic movement during laying of water pipeline 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 to be obtained Before undertaking any work of the installation, sifting or repair , or alteration to the flowing water Pipe line located in the National Highway right of way.	Agreed	
5.10	Expenditure, if any incurred by NHAI for repairing Any damage cause to the National Highway by laying, maintenance or sifting of the water pipe line will be borne by the agency owning the line.	Yes	
5.11	If the NHAI consider it necessary to move the utility line for any work of improvement or repair of the road, it will be carried out as desired by the NHAI or At the cost of the agency owning the utility line with in a reasonable time (not exceeding 60 days) of the intimation given.	Agreed	
5.12	Certificate from the applicant in the following format :		
	(i) Laying of water pipeline will not have any deleterious effects on any of the bridge components and roadway safety for traffic.	Agreed	
	(ii)for 4 lanning "we do undertake that i will relocate service road/approach road/utility at my own cost notwithstanding the permission granted within such time as well as be stipulated by NHAI" for future six – lanning or any development.	Undertaking in this regards attached	
6	Who will sign the agreement on behalf or water pipeline agency?	The Superintending Engineer, RWS&S Division, Rourkela	
7	Certificate from the Project Director	Enclosed	
7.1	Certificate for confirming of all standard condition issued vide ministry circular NO.NH41(58)/68 Dated 31-01-1969 Ministry circular No.NHIII/P/66/76 Dated 18/19 -01-1976 Dated 11-05-1982 Ministry circular No.RW/NH-11037/1/86-DOI(II) DATED2/1/1993 Ministry circular No. RW/NH-11037/1/86-DOI Dated 19-1-1995		
	Ministry circular		
	No.RW/NH/31066/2/95/S&R Dated 25/10/1999 AND Ministry circular No.RW/NH-34066/7/2003 S&R (B) Dated 17-09-2003		

  
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**Theme Engineering Services Pvt. Ltd.**

  
**Superintending Engineer**  
**R.W.S & S. Division**  
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**National Highway & Roadways of India**  
**प.जा.उ. रावतपुरा पी.ओ. रूरकला**



7.2	Certificate From PD In the following format:(i) It is to certify that any other location of the water pipeline would be extremely difficult and unreasonably costly and the installation of water pipeline with in ROW will not adversely affect the design , stability and traffic safety of the highway nor the likely future improvement such as widening of carriageway easing of curves etc.		
	(ii) for 6 Lanning		
	(a)Where is feasibility available " I do certify That there will be no hindrance to propose six Lanning based on the feasibility report considering proposed structure at the site location"	I do certify That there will be no hindrance to propose six Lanning based on the feasibility report considering proposed structure at the site location.	
	(B) In case feasibility Report is not available – " I do certify that sufficient ROW is available At site for accommodating proposed six lanning road	NA	
8	If NH section proposed to be taken up by NHAI on BOOT basis –a clause is to be inserted in the agreement" the permitted highway on Which license has been granted to lay water pipeline cable/duct has also been granted as right to way To the concessionaire under the concession agreement for up gradation of (..... section from km.... to km..... of NH no..... on built , operate and transfer Basis) and therefore , the license shall Honour	NA	
9	Who will supervise the work of laying of water Pipeline.	M/s JMC Projects India Limited, under guidance of NHAI authority	
10	Who will ensure , that the defects in road Portion after laying of water pipeline are Corrected and if not corrected the what action Will be taken.	As NHAI authority would instruct Accordingly, the company , M/s JMC Shall comply	
11	Who will pay the claims for damage done /disruption in working of concessionaire if Asked by the concessionaire.	The Company, M/s JMC shall bear the claims.	
12	A certificate from PD that he will enter the proposed Permission in the register of records of the permission in the prescribed Performa (copy enclosed)	YES	
13	If any previous approval is accorded for of underground water pipeline then photo copy of register of records of permission accorded as maintained by PD then copy enclosed.	NA	

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Superintendent Engineer  
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National Highway's Authority's of India  
पञ्जाब, राउरकेला/ PNU, Rourkela