



**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  
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NHAI/13011/54/RO/OD/ 1413 /2022

13.05.2022

To

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

Sub: Laying of Clear Water rising Main and Distribution pipeline along & across NH-143 for execution of 02 nos. individual RPWS Project to Kuarmunda & Nuagaon blocks of Sundargarh district by the Superintending Engineer, RWS&S Division, Rourkela - Reg

Sir,

Please find enclosed herewith a proposal of Superintending Engineer, RWS&S Division, Rourkela for Laying of Clear Water rising Main and Distribution pipeline along & across NH-143. The details is as under:

Sl. No.	Chainage		Side	Length (m)	Width of Corridor
	From	To			
1	213.600(Ex ch 2.45)	216.200(Ex ch.5.050)	RHS	2600	600
2	216.200	228.200	RHS	12000	600
3	(Ex ch. 16.860)	(Ex ch.19.900)	RHS	3040	600
4	231.500	233.835	RHS	2335	300
5	216.252	221.060	LHS	4808	300
6	221.991	224.408	LHS	2417	300
7	(Ex ch.16.860)	(Ex ch.19.900)	LHS	3040	600
8	231.500	231.855	LHS	355	300
9	232.720	233.835	LHS	1115	300
10	232.840		Across	60	200
11	(Ex ch.19.990)		Across	30	600
12	(Ex ch.17.690)		Across	30	400
13	(Ex ch.17.680)		Across	30	450
14	(Ex ch.17.260)		Across	30	500
15	227.94		Across	60	250
16	224.36		Across	60	350
17	220.56		Across	60	400
18	217.54		Across	60	350
Total				32130	

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 the "Regional Officer, NHAI, Regional Office, Odisha, Bhubaneswa.

Yours faithfully,

(D.K. Patra)  
Manager (Tech)



**भारतीय राष्ट्रीय राजमार्ग प्राधिकरण**  
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)  
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NHAI/13011/54/RO/OD/ 14/2/2022

13.05.2022

**INVITATION OF PUBLIC COMMENTS**

**Sub:** Laying of Clear Water rising Main and Distribution pipeline along & across NH-143 for execution of 02 nos. individual RPWS Project to Kuarmunda & Nuagaon blocks of Sundargarh district by the Superintending Engineer, RWS&S Division, Rourkela - Reg

Superintending Engineer, RWS&S Division, Rourkela has submitted a proposal for Laying of Clear Water rising Main and Distribution pipeline along & across NH-143. The details is as under:

Sl. No.	Chainage		Side	Length (m)	Width of Corridor
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17	220.56		Across	60	400
18	217.54		Across	60	350
Total				32130	

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

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 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/NH-II/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 Dated 22-11-2016
9. Ministry Circular No. RW/NH-37011/52/2020-BP&SP Dated 15-01-2021

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

Sl. No	ITEM	INFORMATION / STATUS	REMARKS
1	General Information	Executive Engineer RWS&S Rourkela Division Sundargarh	
1.1	Name and address of the Applicant	RWS&S, Rourkela	
1.2	National Highway Number	NH-143	
1.3	State	ODISHA	
1.4	Location	Kuarmunda Block( Sundargarh District)	
1.5	Chainage in km	1.Km 216.252 to 221.060(4Lane), Km 221.991 to 224.408(4Lane), Km 228.200(Ex ch.16.860) to 231.500 (Ex ch.19.900), Km 231.500 to 231.855(4Lane), Km 232.720 to 233.835(4Lane) in LHS. 2.Km 213.600(Ex ch.2.45) to 216.200(Ex ch. 5.050), Km 216.200 to 228.200(4Lane), Km 228.200(Ex ch.16.860) to 231.500(Ex ch.19.900) and Km 231.500 to 233.835(4Lane) in RHS.	
1.6	Length in Meters	1. Along the Row-20235 Mtr in RHS & 11995 Mtr in LHS (NH-143)	
1.7	Width of Available Road of NHAI Land	2. 09 Nos. Crossing -420 Mtr (NH-143)	
	(a) Left side from centre line ( Towards increasing Chainage /KM Direction	60 Mtr from centre line of Row	
	(b) Right side from centre line ( Towards increasing Chainage /KM Direction	30 Mtr from centre line of Row	
	(a) Left side from centre line ( Towards increasing Chainage /KM Direction	30 Mtr from centre line of Row	
	(b) Right side from centre line ( Towards increasing Chainage /KM Direction	Km 216.252 to 221.060(4Lane), Km 221.991 to 224.408(4Lane), Km 228.200(Ex ch.16.860) to 231.500 (Ex ch.19.900), Km 231.500 to 231.855(4Lane), Km 232.720 to 233.835(4Lane) in LHS.	
	(b) Right side from centre line ( Towards increasing Chainage /KM Direction	Km 213.600(Ex ch.2.45) to 216.200(Ex ch. 5.050), Km 216.200 to 228.200(4Lane), Km 228.200(Ex ch.16.860) to 231.500(Ex ch.19.900) and Km 231.500 to 233.835(4Lane) in RHS.	
1.9	Proposal to Acquire Land		
	(a) Left side from centre line	NA	
	(b) Right side from centre line	NA	
1.1	Whether proposal is in the same side where land is not to be acquired	Laying DI & HDPE Pipe line along the NH road on Both sides.	
	If not then where to lay the water pipeline	NA	
1.11	Details of already laid services , if any along the proposal rule	NA	
1.12	Number of lanes (2/4 or 6/8) existing	2 Lanes	
1.13	Proposed no of lanes (2 lanes with paved shoulders)	4 Lanes	
1.14	Service road (Existing or not) Y/N If then which side	No	
	(a) Left side from centre line (Width)	No	


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

  
परियोजना निदेशक  
PROJECT DIRECTOR  
आयुक्त राष्ट्रीय राजमार्ग प्राधिकरण  
Acting Team Leader  
National Highways Authority's of India  
Theme Engineering Services Pvt. Ltd.  
का. इ. राउरकेला (PIL, Rourkela)

Sl. No	ITEM	INFORMATION / STATUS	REMARKS
	(b) Right side from centre line (Width)	No	
1.15	Proposed service road		
	(a) Left side from centre line (Width)	Yes	
	(b) Right side from centre line (Width)	Yes	
1.16	Whether proposal to lay water supply pipeline is after the service road or between the service and main carriageway	After the service road edge of the Row	
1.17	The permission for laying of water supply pipe line shall be considered for approval/rejection based on the ministry circulars mentioned as		
	(a) Carrying of sewage/gas pipelines on highway bridges shall not be permitted as fume's gases pipes can accelerate the process of corrosion or may cause explosions thus being much more injurious than leakage of water	NA	
	b) carrying of water pipes lines on bridge shall also be discourage (d)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 finalize permitted to carry the pipe line on in dependent superstructure. supported on extended portion of piers and abutments in such a manner that in the final arrangement enough free spade around the superstructure of the bridge remains available for inspection and repairs etc.	NA	
	c) Cost of required extension the sub structure as well as that of the supporting .superstructure shall be borne by the agency in charge of the utilities.	Agreed	
	d) Service are not being allowed indiscriminately on the parapet any part of the bridge ,safety of bridge has to be kept in view while permitting various services along bridge approval are to be accorded in this regard with the concurrence of the ministry's project Chief Engineer .	NA	
1.18	If crossing of the road involved If yes it shall be either encased in pipe or through structure or conduits specially built for that purpose at the expenses of the agency owning that line.		
	a) Existing drainage structure shall not be allowed carry the lines	Agreed	
	b) Is it on a line normal to 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 existing structure .	NA	
	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 and have adequate strength and be large enough to permit ready withdrawal of the carrier pipe cable.	Yes(MS pipe/RCC Hume pipe)	
	e) Ends of the casing conduct pipe shall be sealed from the outside, so that if does not act as a drainage path .	Yes	
	f) The casing conduct pipe shall be sealed from drain to in cuts and loe of slope in the tiles .	Yes	

  
 Acting Team Leader  
 Theme Engineering Services Pvt. Ltd.

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 National Highways Authority of India  
 राउरकेला, राउरकेला  
 Rourkela, Rourkela



Sl. No	ITEM	INFORMATION / STATUS	REMARKS
	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.	Yes	
	H) Crossing shall be by boring method (HDD) specially where the existing road pavement is of cement concrete or bituminous concrete type .	Yes	
	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 waterway along it.	Yes	
2	Document/Drawing Enclosed with the proposal	Yes	
2.1	Cross section showing the size of the trench for open trenching method (its Normal size of 1.2 deep x0.3m wide)	Yes Attached	
	i) should not be greater than 60cm wider than the outer diameter of the pipe	Yes	
	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 carriage way	Yes	
	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,	Yes	
	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.	Yes	
2.2	Cross section showing the size of pit and location of cable for HDD method.	Yes 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 works etc.	Yes Attached	
2.4	Methodology for laying of water pipeline.	Yes Attached	
2.4.1	Open trenching method (may be allowed in the utility corridor only where the pavement is neither cement concrete nor dense bituminous concrete type if yes methodology or refilling of trench	Yes	
	a) The trench width should be at least 30cm but not more than 60cm wider than the outer diameter of the pipe	Yes	
	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 edges should be excavated and replaced by selected material	Yes	
	c) The backfill shall be completed in two stage	Yes	
	i) Side fill the level of the top of the pipe	Yes	
	ii) Overfill to the bottom of the road crust	Yes	
	d) The side fill shall consist of granular material lain in 15cm layers each consolidated by mechanical tampering and controlled by addition of moisture of 90% of the proctor's density as the material that had been removed consolidation by saturation or pending will not be permitted.	Yes	

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National Highways Authority of India  
का. इ. राउरकेला / PIU, Rourkela

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Theme Engineering Services Pvt. Ltd.

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

Sl. No	ITEM	INFORMATION / STATUS	REMARKS
	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 dip at the trench	Yes	
	f) The excavation shall be protected by flagman signs and barricades and red lights during the night hours,	Yes	
	g) If required, a diversion shall be constructed at the expense of the agency owning the utility line.	Yes	
2.4.2	Horizontal Direction drilling (HDD) Method	Yes (only for Crossings)	
2.4.3	Laying of water supply pipeline through CD work and method laying.	NA	
	A) OPEN approaches the water mains \ cables shall be carried along a line as close to a 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 guidelines issued with letter NH -HI \66\76 date 19-11-1976.	Agreed	
3	Draft Licence agreement signed by two witnesses.	Yes	
4	Performance Bank guarantee in favour of NHAI has to be obtain @ Rs 50- per running meter ( Parallel to NH) and Rs 100000/- per crossing of NH for period of one year initially ( extendable if required till satisfactory completion of work ), as a security of ensuring making	Yes	
	Good the excavated trench for laying the cable ducts by copper filling and compaction clearing debris, loose earth product due to executing of trenching at least 50 meter away from the edge of the right way no payment shall be payable by the NHAI to the licence for clearing debris, loose earth.		
4.1	Performance BG as per above is to be obtained	Yes	
4.2	Confirmation of BG has been obtained as per NHAI guideline.	Yes	
5	Affidavit/undertaking from the application for		
5.1	Not to damage to other utility if damage then to pay the losses either to NHAI s or to the conceded agency .	Yes	
5.2	Renewal of back guarantee .	Yes	
5.3	Confirming all standard condition of NHAI's guidelines.	OK, Noted	
5.4	shifting to water pipe line as and when required by NHAI at their own cost.	Yes	
5.5	Shifting due to lining /widening of NH .	Yes	
5.6	Inanity against all damages and claims clause	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 than 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 the installation shifting or repairs of alternation to the showing water pipe line located in the National Highway right of ways .	Yes	परियोजना निदेशक PROJECT DIRECTOR भारतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highways Authority's of India का ड, राउरके / PIU, Rourkela
5.1	Expenditure if any incurred by NHAI for repairing any damage cause to the National Highway by the laying maintained or shifting of the water pipe line will be borne by the agency owning the line.		




Sl. No	ITEM	INFORMATION / STATUS	REMARKS
5.2	Renewal of bank guarantee.	NA	
5.3	Confirming all standard condition of NHAI's guidelines	Yes	
5.4	Sifting of water pipeline as and when required by NHAI at their own cost	Yes	
5.5	Sifting due to Lanning/widening of NH	Yes	
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 paid by the applicant.	Yes	
5.9	Prior approval of the NHAI to be obtained Before undertaking any work of installation, sifting or repair or alteration to the flowing water Pipe line located in the National Highway right of way.	Yes	
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.	Agreed	
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.	Enclosed	
	(ii)for 4 lanning "we do undertake that I will relocate service road/approach road/utility at my own cost notwithstanding permission granted within such time as well as be stipulated by NHAI" for future six -lanning or any development.	Enclosed	
6	Who will sign the agreement on behalf of water pipeline agency ?	Supritending Engineer, Rural Water Supply & Sanitation, Rourkela	
7	Certificate from the Project Director		
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-DO(II) Dated 2/1/1993, Ministry circular No.RW/NH-11037/1/86-DO(II) Dated 19/1/1995.	Enclosed	
	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	Enclosed	
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 the ROW will not adversely affect the design, stability and traffic safety of highway nor the likely future improvement such as widening of carriageway eaing of curves etc.	Enclosed	
	(ii)for 6 Lanning		

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National Highways Authority's of India  
का. इ. राउरके. / PIU Rourkela

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

Sl. No	ITEM	INFORMATION / STATUS	REMARKS
	(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.	Enclosed	
	(b) In case feasibility report is not available- "I do certify that sufficient ROW is available at site for accommodating.	Enclosed	
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..... on built , operate and transfer Basis) and therefore, the license shall Honour .	NA	
9	Who will supervise the work of laying water Pipeline	Rural Water Supply & Sanitation Department, Rourkela	
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.	Rural Water Supply & Sanitation Department, Rourkela	
11	Who will pay the claims for damage done/disruption in working of concessionaire if Asked by concessionaire.	Rural Water Supply & Sanitation Department, Rourkela	
12	A certificate from PD that he will enter the proposed Permission in the register of records of the permission in prescribed Performa(copy enclosed)	Yes	
13	If any pervious approval is accorded for laying of underground water pipeline then photo copy of register of records of permission accorded as maintained by PD then copy enclosed.	NA	

  
 Acting Team Leader  
 Theme Engineering Services Pvt. Ltd.

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

  
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 PROJECT DIRECTOR  
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
 National Highways Authority's of India  
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