भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय)
National Highways Authority of India
(Ministry of Road Transport & Highways)
क्षेत्रीय कार्यालय, ओडिशा /Regional Office, Odisha
301 - ए, तीसरी मंजिल, पाल हाईटस, प्लाट् नं जे/7, जयदेव विहार
भुवनेश्वर - 751013, ओडिशा
301-A, 3rd Floor, Pal Heights, Plot No : J/7, Jayadev Vihar
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NHAI/13011/16//RO/OD/1422/2018

12.06.2018

To

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

Sub: NOC for laying of water pipelines across NH-23 (NH-143) from Km. 240.330 to Km. 245.130 (Panposh to Nabakrushna Nagar)-reg

Sir,

Please find enclosed herewith a proposal seeking NOC for laying of water pipeline across NH-23 (New NH-143) in following locations:

Sl. No	Description	Chainage
1	Crossing-I	Km.240.330
2	Crossing-II	Km.244.130
3	Crossing-III	Km.245.130

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, Bhubaneswar".**

Yours faithfully,

12/06/18

General Manager (Tech.)

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
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NHAI/13011/16//RO/OD/ 1421 /2018

12.06.2018

INVITATION OF PUBLIC COMMENTS

Sub: NOC for laying of water pipelines across NH-23 (NH-143) from Km. 240.330 to Km. 245.130 (Panposh to Nabakrushna Nagar)-reg.

Executive Engineer, PH Division, Rourkela has submitted a proposal seeking NOC for pipeline across NH-23 (New NH-143) in the State of Odisha.

2. As per guidelines issued by MoRTH vide F. No. RW/NH-33044/29/2015/S&R(R) dt. 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".**

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

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय)
National Highways Authority of India
(Ministry of Road Transport & Highways)

परियोजना कार्यान्वयन इकाई, राउरकेला / Project Implementation Unit, Rourkela
सी-45, कोयल नगर, राउरकेला-769 014, सुन्दरगढ़, ओड़िशा
C-45, Koel Nagar, Rourkela - 769 014, Sundargarh, Odisha

दूरभाष /Tel : +91-661-2471181
ई-मेल /e-mail : piurourkela@nhai.org
nhairourkela@gmail.com

NHAI/PIU/RKL/Utility/1993-A/2018 *Dt: 22nd May, 2018*

To

CGM (Tech.) & Regional Officer,
National Highways Authority of India,
Regional Office-Odisha,
Pal Heights, Jayadev Vihar,
Bhubaneswar-751 013

Sub: Rehabilitation & Up gradation of Biramitrapur to Barkote Section of NH-23 (New NH-143) – **Regarding NOC for laying Water Pipelines across NH-143 from Km 240.330 to Km 245.130 (Panposh to Nabakrushna Nagar) – Reg.**

Ref: E.E., Public Health Division Rourkela Letter No. 1838, Dt: 28.02.2018

Sir,

Please find attached herewith the letter from vide reference cited, for proposal of laying water pipeline across NH-23 (New NH-143) by the E.E., Public Health Division, Rourkela, Govt. of Odisha. The details of crossings are as under.

Sl. No	Description	Chainage
1	Crossing I	Km 240.330
2	Crossing II	Km 244.130
3	Crossing III	Km 245.130

2. In this connection, proposal of E.E., Public Health Division, Rourkela, Govt. of Odisha was scrutinised and following comments may be taken up into consideration.

Sl. No.	Comments of Project Director
1.	The Proposed water pipeline project crosses NH at 3 locations mentioned above.
2.	The project is a public utility project and the Whole Rourkela City and nearby urban outskirts will be benefitted by this.
3.	The project has been approved by Govt of Odisha vide Letter No. 17925, Dated 05.08.2017 from the office of F.A.-cum-Addl. Secretary to Govt., H & UD Deptt. Govt. Of Odisha under AMRUT-(AMRUT/ OD/ ROURKELA/ WS/ 04).

3. The proposal has been examined in the light of guidelines of Ministry of Road Transport & Highways Letter No. RW/NH-33044/29/2015/S&R(R), Dt: 22.11.2016 & checklist & supporting documents are found to be in order.

4. In view of the above, it is recommended that necessary permission may be accorded for laying of water pipeline along and across the NH-23 as per the proposal submitted. Further, as the constructions work for 4/6 Laning of all the packages is going to start in very short time period, it

is requested to kindly accord necessary permission on the subject proposal at the earliest to avoid unnecessary hindrance in future.

Yours faithfully,

Encl: As above

(P. Madhu)
Project Director

Pg 2/2

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दूरभाष /Tel : +91-661-2471181
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nhairourkela@gmail.com

CERTIFICATE

1. It is to certify that the proposal are conforming of all standard condition issued vide 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/NJ-111/P/66/76 Dated 01-05-1982, Ministry Circular No. RW/NH-11037/1/86-DOI(II) Dated 28-07-1993, Ministry Circular No. RW/NH/11067/1/86 DOI Dated 19-04-1995, Ministry Circular No. RW/NH/34066/2/95/S&S Dated 25-10-1999, Ministry Circular No. RW/NH-34066/7/2003 S&R Dated 17-09-2003.

2. (i) It is certified that any other location of the water pipeline would be extremely difficult and unreasonably costly and the installation of water pipeline within the RoW will not adversely affect the design, stability and traffic safety of neither the highway nor the likely future improvement such as widening of the carriageway easing of curves etc.

   (ii) For Six Laning

   a. "I do certify that sufficient ROW is available at site for accommodating proposed six laning."

3. Certified that the proposed permission will be entered in the register of prescribed proforma.

22/1

(P. Madhu)
Project Director

CHECK LIST

Guidelines for Project Directors for processing the proposal for accordance of No Objection Certificate for laying of clear water rising main from WTP site, Panposh to Nabakrishna Nagar in connection with the work "Improvement of water supply to Rourkela Town(New-Z2,Nabakrishna Nagar)under(AMRUT/OD/ROURKELA/WS/04)"in the land across and along National Highway vested with NHAI.

Relevant Circulars:-

1. Ministry Circular No. NH-41(58)/68 Dt.31.01.1969
2. Ministry Circular No. NH-III/p/66/76 Dt.18/19.11.1976
3. Ministry Circular No. RW/NH-111/p/76 Dt.01.05.1982
4. Ministry Circular No. RW/NH-11037/1/86-DOI(II) Dt.19.01.1993
5. Ministry Circular No. RW/NH-11067/1/86 Dt.19.01.1995
6. Ministry Circular No. RW/NH-34055/2/95/S&S Dt.25.01.1999
7. Ministry Circular No. RW/NH-34066/7/2003 S&R Dt.17.07.2003

Sl. No.	Description of Item	Information/Status	Remarks
1.00	General Information.	Accordance of No Objection Certificate for laying of clear water rising main from WTP site, Panposh to Nabakrishna Nagar in connection with the work "Improvement of water supply to Rourkela-Town(New-Z2,NabakrishnaNagar)under(AMRUT/OD/ROURKELA/WS/04)"	
1.01	Name and Address of the Applicant.	Executive Engineer, Rourkela P.H.Division, Panposh,Rourkela-769004	
1.02	National Highway Number	N.H.-23	
1.03	State	Odisha	
1.04	Location	WTP site, Panposh, Rourkela to Nabakrishna Nagar along N.H. and Crossing at Balughat and Deogan,Rourkela.	Detailed alignment map enclosed
1.05	Chain age in Km		
1.06	Length in meter	Crossing 2 nos i.e. near Balughat &Deogan=120.00m and laying along the road alignment=6410.00m	
1.07	Width of available ROW of NHAI Land		
i.	Left side from centre line (towards increasing chain age/Km direction)	30.00m	
ii.	Right side from centre line (towards increasing chain age/Km direction)	30.00m	

1.08	Proposal to lay underground pipeline		
i.	Left side from centre line (towards increasing chain age/Km direction)	28.50m	
ii.	Right side from centre line (towards increasing chain age/Km direction)	28.50m	
1.09	Proposal to acquire land	Not required	
i.	Left side from centre line	Nil	
ii.	Right side from centre line	Nil	
1.10	Whether proposal is the same side where land is not to be acquired (if not then where to lay pipeline)	NA	
1.11	Details of already laid services, if any along the proposed route	NA	
1.12	Number of lanes(2/4 or 6/8) existing	2 -Lane	
1.13	Proposed number of lanes(2 lane with paved shoulders or 4 or 6/8 lane	4-lane	
1.14	Service road(Existing or Not) Y/N, if yes then which side	Not available	
i.	Left side from centre line (width)		
ii.	Right side from centre line (width)		
1.15	Proper Service road	Not available	
i.	Left side from centre line (width)		
ii.	Right side from centre line (width)		
1.16	Whether proposal to lay water supply pipe line is after the service road or between the service road and main carriageway	Beyond the main carriage way along the road alignment.	
1.17	The permission for laying of water supply pipe line shall be considered for approval/rejection based on the Ministry Circulars mentioned above.		
i.	Carriage of sewage/gas pipe lines 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 than leakage of water.	Not required	
ii.	Carriage of water pipe line on bridges shall also be discouraged. However, if the water supply authorities seem to 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	Not required	

	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 repair etc.		
iii.	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.	Does not arise	
iv.	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.	Does not arise	
1.18	**If crossing of road involved:-** If Yes, it shall be either encased in pipes or through structure or conduit specially built for the purpose of expenses of the agency owing the line.	Work will be executed through Horizontal directional drilling with tough M.S. encasing for the water supply pipe line while crossing the road.	
i.	Existing drainage structure shall not be allowed to carry the lines.	Agreed.	
ii.	Is it on a line normal to NH	Yes	
iii.	Crossing shall be to near the existing structure on the National Highway the minimum distance being 15.00m.What is the distance from the existing structure.	No existing structure nearby.	
iv.	The casing pipe(or conduit in case of electric cable) carrying the utility line shall be of steel, cast iron or reinforcement cement concrete and have adequate strength and to be large enough to permit ready with drawl of the carrier pipe/cable.	Agreed	
v.	Ends of the casting/conduit pipe shall be sealed from the outside so that it does not act as a drainage path.	Agreed	
vi.	The casting/conduit pipe shall be sealed from the drain in cuts and toe of the slope in fills.	Agreed	
vii.	The top of the casing/conduit pipe		

	should be at least 0.30mbelow the drain invert.	Agreed	
viii.	Crossing shall be by HDD method especially where the existing road pavement is the cement concrete or dense bituminous concrete type.	Agreed	
ix.	The casing/conduit pipe shall be installed with an even bearing throughout its length and in such manner as to prevent the formation along it.	Agreed	
2.00	Document/Drawing enclosed with the proposal.	Detailed drawing attached.	
2.1	Crossing section showing the size of the trench for open trenching method(it is normal size of 2.00m deep and 2.00m wide) a. Should not be greater than 60cm wider than the outer diameter of the pipe. b. Located as close to the extreme edge of the right of the way as possible but not less than 15.00m from the centre line of the nearest carriageway. c. Shall not be permitted top run along the National Highway when the road formation is situated in double cutting, nor shall these be laid over existing culverts and bridges. d. These should be laid so that their top is at least 0.60m below the ground level so as not to obstruct drainage of the road land.	Does not arise	
2.2	Cross-section showing the size of the pit and location of cable for HDD method.	NA	
2.3	Strip plan/Route plan showing water pipe line, chain age, width of the ROW, distance of the proposed cable from the edge of the ROW, important mile stone, intersections, cross drainage works etc.	Detailed rout plan attached.	
2.4	Methodology for laying of pipe line	HDD method for crossing of road & beyond the edge of ROW open excavation.	
2.4.1	Open trenching method may be allowed in the utility corridor only where pavement is neither cement concrete nor dense bituminous		

	concrete type. If yes, methodology or refilling of the trench. a. The trench width should be at least 30cm but not more than 60cm wider than the outer diameter of the pipe. b. For filling of trench, bedding shall be to a depth of 30cm.It shall be consist of granular materials, 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 e excavated and replaced by selected materials. c. Back filling shall be completed in two stages i.e. i. Side filling to the level of the top of the pipe and ii. Overfill to the bottom of the road crust. d. The side shall consist of granular material laid in 15cm layers each consolidated by mechanical tempering and corrode addition of moisture of 90% of the proctor's density. Over filling shall be compacted to the same density as the materials that had been removed. Consolidation by saturation or pending 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. f. The excavation shall be protected by flagman, signs and barricades and red light during night hours. g. If required a diversion shall be constructed at the expense of the agency owing the utility line.		
2.4.2	Horizontal directional drilling(HDD) method.	For crossing across National Highway	
2.4.3	Laying and crossing of G.I. pipe encasing for the H.T. Cable laying through CD work and method	Agreed	

	laying:- a. On approach the water mains/cables shall be carried along a line close to the edge of the right of way as possible up to a distance of 30cm from the bridge and subject to all other stipulation contained in Ministry's Guidelines issued with letter No. NH-HI/p/76/ Dt.19.11.1976.		
3	Draft license Agreement signed by two witnesses.	Enclosed	
4	Performance bank guarantee in avower of NHAI has to be obtained @Rs 50.00/running meter(Parallel to NH)& Rs 1,00,000.00/crossing of NH for a period of 1 year initially(extendable if required period till satisfactory completion of the work)as a security of ensuring and making good the excavated trench for laying the cable/ducts by proper filling and compaction, clearing debris/loose earth produced due to executing of trenching at least 50.00m away from the edge of the right of way no payment shall be payable by NHAI to the license for clearing debris/loose earth.		
4.1	Performance BG as per above is to be obtained.	Yes	
4.2	Conformation of BG has been obtained as per NHAI guidelines.	Bank Guarantee will be furnished after award of the project to the Agency and before execution of the above project.	
5	**Affidavit/Undertaking form the applicant for:-**	Enclosed	
5.1	Not to damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency.		
5.2	Bank guarantee		
5.3	Confirming all standard condition of NHAI's guidelines.		
5.4	Shifting of pipes as and when required by NHAI at their own cost.		
5.5	Shifting due to widening of NH.		
5.6	Indemnity against all damages and		

	claims clause(xxiv)		
5.7	Traffic movement during laying of the pipe to be managed by the applicant.		
5.8	If any claim is raised by the concessionaries then the same shall be paid by the applicant.		
5.9	Prior approval of NHAI shall be obtained before undertaking any work of the installation, shifting or repairs & alternation to the showing water pipe line located in the National Highway right of the ways.		
5.10	Expenditure, if any incurred by NHAI for repairing any damage cause to the National Highway by the laying, maintenance and shifting of the pipes will be borne by the agency owing the pipe line.		
5.11	If NHAI consider it necessary in future to move the utility line for any work of improvement for repair of the road, it will be carried out as desired by NHAI or the cost of the agency owing the utility line with a reasonable time(not exceeding 30 days) of the intimation given.		
5.12	Certificate from the applicant in the following format:- i. Crossing of G.I. pipe encasing for H.T. cable laying will not have any deleterious effects on any of the bridge component and roadway safety for traffic. ii. For four-lining "we do undertake that I will relocate service road/approach road/utilities at my own cost notwithstanding the permission granted within such time as well as be stipulated by NHAI for future six-lining or any development."	Not required	
6	Who will sign the Agreement on behalf of executing Agency	Executive Engineer, Rourkela P.H. Division, Rourkela	
7	Certificate from the project director		
7.1	Certificate for confirming of all standard condition issued vide i. Ministry Circular No. NH-41(58)/68 Dt.31.01.1969 ii Ministry Circular No. NH-III/p/66/76 Dt.18/19.11.1976		

	iii. Ministry Circular No. RW/NH-111/p/76 Dt.01.05.1982 iv. Ministry Circular No. RW/NH-11037/1/86-DOI(II) Dt.19.01.1993 v. Ministry Circular No. RW/NH 11067/1/86 Dt.19.01.1995 vi. Ministry Circular No. RW/NH-34055/2/95/S&S Dt.25.01.1999 vii. Ministry Circular No. RW/NH-34066/7/2003 S&R Dt.17.07.2003		
7.2	Certificate from project director in the following format:- i. It is certified that any other location of the water pipe line would be extremely difficult and unreasonable costly and the installation of the water pipe line within ROW will be adversely affect the design stability and traffic safety of the highway nor the likely future improvement such as widening of the carriage easing of curve etc. ii. For six-lining a. Where is feasibility available "I do certify that there will be no hindrance to the proposed six-lining 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 site for accommodating proposed six-lining"		
8	If NH section proposed to be taken up by the NHAI on BOT basis a clause is to be inserted in the agreement "The permitted Highway on which licensee has been granted to lay water pipe line/cable/duct has also been granted as a right to way the concessionaries under the concession agreement for the 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.	NA	

9	Who will the supervise the work of laying of water supply pipe line .	Applicant	
10	Who will ensure that the defects in the road portion after crossing the pipe line are correct and if not correct then what action will be taken.	Applicant	
12	A certificate from project director that he will enter the proposed permission in the register records of the permission in the prescribed format (Copy enclosed)	Attached	
13	If any previous approval is accorded for laying of underground water pipe line then photo copy of register of records of permission accorded as a maintain by project director then copy enclosed.	NA	

Executive Engineer
P. H. DIVISION
ROURKELA

TERMS AND CONDITIONS FOR PIPE LINE LAYING

1. Open trenching method may be allowed in the utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type.
2. The trench width should be at least 30cm but not more than 60cm wider than the outer diameter of the pipe.
3. For filling of trench, bedding shall be to a depth of 30cm.It shall be consist of granular materials, 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 excavated and replaced by selected materials.
4. Back filling shall be completed in two stages i.e .i. Side filling to the level of the top of the pipe and overfill to the bottom of the road crust.
5. The side shall consist of granular material laid in 15cm layers each consolidated by mechanical tempering and corrode addition of moisture of 90% of the proctor's density. Over filling shall be compacted to the same density as the materials that had been removed.
6. 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.
7. The excavation shall be protected by flagman, signs and barricades and red light during night hours.
8. If required a diversion shall be constructed at the expense of the agency owing the utility line.
9. If crossing of road involved it shall be by HDD method especially where the existing road pavement is the cement concrete or dense bituminous concrete type with encased in pipes or through structure or conduit specially built for the purpose of expenses of the agency owing the line.
10. The casing/conduit pipe shall be installed with an even bearing throughout its length and in such manner as to prevent the formation along it.
11. Ends of the casting/conduit pipe shall be sealed from the outside so that it does not act as a drainage path.
12. The casting/conduit pipe shall be sealed from the drain in cuts and toe of the slope in fills.
13. The top of the casing/conduit pipe should be at least 0.30mbelow the drain invert.
14. Existing drainage structure shall not be allowed to carry the lines.
15. Crossing shall be to near the existing structure on the National Highway the minimum distance being 15.00m.What is the distance from the existing structure.
16. The casing pipe(or conduit in case of electric cable) carrying the utility line shall be of steel, cast iron or reinforcement cement concrete and have adequate strength and to be large enough to permit ready with drawl of the carrier pipe/cable.

Executive Engineer
P. H. DIVISION
ROURKELA