



सत्यमेव जयते

# 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)

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NHAI/13011/54/RO/OD/955/2024

08.05.2024

To

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

**Sub:** Six laning of Chandikhole- Jagatpur- Bhubaneswar section of NH-5 from Km.414+000 to Km.419+000 and Km.0+000 to Km.62+000 in the State of Odisha - Permission with Right of User (RoU) for laying DI pipe line under "Amrut-2" scheme along the NH-16 for the work laying / replacement of rising main along Mahanadi River side for improvement of intermittent water supply to 24 x 7 continuous water supply in Cuttack City from Km.23+000 to Km.24+650 (LHS) & Km.23+700 to Km.24+650 (RHS) and crossing at Km.24+650 on NH-16- Reg

**Ref:** PD, PIU- Bhubaneswar letter No. 506 dated 24.04.2024

Sir,

Please find enclosed herewith a proposal of General Manager, WATCO Division, Cuttack for laying / replacement of rising main along Mahanadi River side for improvement of intermittent water supply to 24 x 7 continuous water supply in Cuttack City from Km.23+000 to Km.24+650 (LHS) & Km.23+700 to Km.24+650 (RHS) and crossing at Km.24+650 on NH-16. The details are as under:

Sl. No.	Chainage		Side	Remarks
	From	To		
1.	Km.23+000	Km.24+650	LHS	Laying of 1650 meter (350mm dia) water supply pipeline
2.	Km.23+700	Km.24+650	RHS	Laying of 950 meter (200mm dia) water supply pipeline
3.	Km.24+650		NA	Crossing through HDD method at Kaliaboda underpass (200mm dia)

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,

(Sunil Kumar)  
General Manager (Tech)





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# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

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NHAI/13011/54/RO/OD/ 954 /2024

08.05.2024

### INVITATION OF PUBLIC COMMENTS

**Sub:** Six laning of Chandikhole- Jagatpur- Bhubaneswar section of NH-5 from Km.414+000 to Km.419+000 and Km.0+000 to Km.62+000 in the State of Odisha - Permission with Right of User (RoU) for laying DI pipe line under "Amrut-2" scheme along the NH-16 for the work laying / replacement of rising main along Mahanadi River side for improvement of intermittent water supply to 24 x 7 continuous water supply in Cuttack City from Km.23+000 to Km.24+650 (LHS) & Km.23+700 to Km.24+650 (RHS) and crossing at Km.24+650 on NH-16- Reg

General Manager, WATCO Division, Cuttack has submitted a proposal laying / replacement of rising main along Mahanadi River side for improvement of intermittent water supply to 24 x 7 continuous water supply in Cuttack City from Km.23+000 to Km.24+650 (LHS) & Km.23+700 to Km.24+650 (RHS) and crossing at Km.24+650 on NH-16. The details are as under:

Sl. No.	Chainage		Side	Remarks
	From	To		
1.	Km.23+000	Km.24+650	LHS	Laying of 1650 meter (350mm dia) water supply pipeline
2.	Km.23+700	Km.24+650	RHS	Laying of 950 meter (200mm dia) water supply pipeline
3.	Km.24+650		NA	Crossing through HDD method at Kaliaboda underpass (200mm dia)

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 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



**OFFICE OF THE GENERAL MANAGER  
WATCO DIVISION, CUTTACK**

Telephone: 0671-2547115 , Email-gmwatcoctc@gmail.com.

Name of Work :- Laying/Replacement of Rising Main along Mahanadi River side for Improvement of Intermittent Water Supply to 24X7 Continuous Water Supply in Cuttack City

**CHECK LIST**

SL	ITEM	INFORMATION/STATUS	REMARKS
	General Information	Laying/Replacement of Rising Main along Mahanadi River side for Improvement of Intermittent Water Supply to 24X7 Continuous Water Supply in Cuttack City	
1.1	Name and Address of the Applicant/Agency	General Manager, WATCO Division, Cuttack, Jobra Canal Road, 753003	
1.2	National Highway No	NH 16	
1.3	State	ODISHA	
1.4	Location	Kaliaboda towards OMP, Cuttack.	
1.5	Chainage in Km		
a	Along the NH-LHS	24+650 to 23+000	1650mtr ( 350mm dia)
b	Along the NH-RHS	24+650 to 23+700	950mtr ( 200mm dia)
c	At Crossing point	24+650	Kaliaboda under passage (200mm dia)
1.6	Length in Meters		
1.7	Width of available ROW	2600 Mtr	
A	Along the NH		
a	(a) Left side from Center line towards increasing chainage/Km direction	25	Average
b	(b) Rightt side from Center line towards increasing chainage/Km direction	27	Average
B	Crossing		
Crossing Point 1	(a) Left side from Center line towards increasing chainage/Km direction	25	
	(b) Rightt side from Center line towards increasing chainage/Km direction	27	
1.8	Proposal to lay underground W.S Pipeline		
	(a) Left side from Center line towards increasing chainage/Km direction	Kaliaboda to 6th Battalion gate.	
	(b) Rightt side from Center line towards increasing chainage/Km direction	Kaliaboda under passage to Hotel Jasmin.	
1.9	Proposal to acquire land		
	(a) Left side from Center line	NA	
		NA	



	(b) Rightt side from Center line	NA	
1.10	Wheather proposal is in the same side where is land not to be acquired	NA	
	If not then where to lay the W.S Pipeline	NA	
1.11	Details of already laid services, if any along the proposed route	NA	
1.12	No of Lanes (2/4/6/8) existing	Existing 6 Lanes	
1.13	Proposed number of lanes (2 lane with paved shoulder 4/6/8 lanes)	NHAI to intimate.	
1.14	Service road existing or not	Yes	
	if yes then which side		
	(a) Left side from Center line towards increasing chainage/Km direction	Yes	
	(b) Rightt side from Center line towards increasing chainage/Km direction	Yes	
1.15	Proposed Service road	NHAI to intimate.	
	(a) Left side from Center line	Yes	
	(b) Rightt side from Center line	Yes	
1.16	Wheather proposed to lay W.S pipelines are after the service road or between the service road and main carriage way	Proposal to lay Water Supply Pipe line along the service road.	
1.17	The permission for laying of W.S pipeline shall be considered for approval/rejection based on the ministry circulars mentioned as above.		
	(a) Carrying of W.S pipeline on bridages shall also be discouraged. However if the authorities semm to have no other viable alternative and approach the highway authority well in the time before the design of the bridge is finalised, they may be permitted to carry the pipeline on independent superstructure, supported on extended portions of piers and abutments in such as manner that in the final arrangement enough free space around the superstructure of the bridge remains available for inspection and repair etc.	Yes, Water Supply Pipe lines to be considered.	
	(b) Cost of required extension of the substructure as well as that of the supporting superstructure shall be done by the agency in charge of the utilities.	NA	
	(c ) 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	NA	

1.18	If crossings of the road involved if yes, it shall be either encased in pipes or through structure or conduits specially built for the purpose at the expenses of the agency owning the line.	NA	
	(a) Existing drainage structures shall not be allowed to carry the lines	Yes	
	(b) is it on the line normal to NH	Yes	
	(c ) Crossing shall not be too near the existing structure being 15m. What is the distance from the existing structures.	Yes , will adhere	
	(d) The crossing pipe (or conduit pipe in case of electric cable) carrying the utility line pipe line shall be of steels, cast iron, or rainforced cement concrete and have adequate strength and be large enough to permit ready withdrawl of the carrier pipe/cable.	NA	
	(e) Ends of casing/conduit pipe shall be sealed from the outside, so that it does not act as a drainage path	NA	
	(f) The casing/conduit pipe should as minimum extend from drain to drain in cuts and toe of slope in the fills.	Yes	
	(g) The Top of the casing/conduit pipe should be atleast 12 meter below the surface of the road subject to being at least 0.3m below the drain invents.	Yes	
	(h) Crossing shall be boring method (HDD) specially where the existing road pavement is of cement concrete or dense bitumenious concrete type	NA	
	(i) The casing/conduit pipe shall be installed with an even bearing through out its length and in such a manner as to prevent the information of water way along it.	NA	
2	Document/drawings enclosed with a proposal	Yes	
1.1	Cross Section showing the size of trench for open trenching method (is it normal size of 1.5m deep X 1.5m wide)	Yes	
	(a) Should not be greater than 80cm wider than the outer diameter of the pipe	Yes	
	(b) Located as close to the extreme edge of the right of way as possible but not less than 15meter from the center lines of the nearest carriageway.	Yes	
	(c ) Shall not be permitted to run along the national highways when the road formation is suited in double cutting nor shall these be laid over the existing culverts and bridges.	NA	



	(d) These should be so laid that their top is at least 0.6m 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.	Incorporated in the drawing.	
2.3	Strip plan/ route plan showing pipeline, chainage, width of ROW, distance of proposed, pipe line from the edge of ROW, important milestone, intersections, cross drainage works etc.	Yes	
2.4	Methodology for laying W.S pipeline across NH	HDD	
2.5	Methodology for laying W.S pipeline along NH	Open trench	
2.5.01	Open trenching method (may be allowed in utility corridor only where pavements is neither cement concrete nor dense bituminous concrete type. If yes, methodology of refilling of trench.	Yes	
	(a) The trench width should be atleast 90cm, but not more than 150cm wider than the outer diameter of pipe.	Yes	
	(b) For filling of the trench, bedding should be a depth of not less than 30cm. It shall consists of granular materials, free of lumps, clods and cobbles and graded too.	Yes	
	(c ) The back fill shall be completed in two stages i) side fill to the level of the top of the pipe and ii) over fill to the bottom of road crust	Yes	
	(d) The side fill shall consist of granular material laid in 15cm layers each consolidated by mechanical tempering and controlled addition of moisture to 95% of the proctors Density. Over fill shall be compacted to the same density as the material that had been removed, consolidation by saturation or ponding will not be permitted.	Yes	
	(e) The road crust shall be build to the same strength as the existing crust on either side on the trench.	Yes	
	(f) The excavation shall be protected by flagman, signs and barricades and red lights during night hours.	Yes	
	(g) If required a diverison shall be constructed at the expenses of the agency owning the utility line.	Yes	
2.5.02	Horizontal directional Drilling (HDD) method	Yes	
2.5.03	Laying of W.S pipe line 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 distance of 30m from the bridge and subject to all other stipulations contained in this Ministry's guidelines issued with letter No H1/P/66/76 dated 19.11.1976	Agreed	
3	Draft License Agreement signed by two witness	Agreed	
4	Performance bank guarantee in favour of NHAI has to be obtained @ Rs 50/- per running meter (parallel to NH) and Rs 100000/- per crossing of NH, for a period of 1 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 excavation 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 cleaning debris/ loose earth.	To be submitted as and when intimated by NHAI.	
4.1	Performance BG as per above is to be obtained	Shall be submitted as above	
4.2	Confirmation BG has been obtained as per NHAI guide lines	NA	
5	Affidavit/undertaking from the applicator	Yes	
5.1	Not to damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency.	Yes	
5.2	Renewal of Bank Guarantee	Yes	
5.3	Confirming all standard condition of NHAI guide lines	Yes	
5.4	Shifting of iron W.S pipe lines as and when required by NHAI at our own cost.	May not be applicable as the pipe lines is to be laid along the NH-ROW.	
5.5	Shifting due to widening/widening of NH	Yes	
5.6	Indemnity against all damages and claims clause (24)	Yes	
5.7	Traffic movement during laying of W.S pipeline to be managed by the applicant.	Yes	
5.8	If any claims is raised by the concessionaire then 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 installation, shifting or repair or alterations to the existing W.S pipeline located in the National High right of way.	Yes	




5.10	Expenditure if any incurred by NHAI for repairing any damaged caused to the National Highway by the laying maintenance or shifting of the W.S pipeline will be done by the agency owning the line.	Yes	
5.11	If the NHAI considers it necessary in future to move the utility line of 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 60days) of the intimation given.	Yes	
5.12	Certificate from the applicant in the following format (1) laying of water supply pipeline will not have any deleterious effects on any of the bridge components and road way safety for traffic (2) for 6 lanning " we do undertake that I will relocate service road/approach road/ utilities at my own cost not withstanding the permission granted within such time as will be stipulated by NHAI for future six-lanning or any other developement"		
6	Who will sign the agreement on behalf of Water Supply Pipeline agency	General Manager, WATCO Division, Cuttack	
7	Certificate from the project director.		
7.1	Certificate for confirming of all standard condition issued vide ministry order No - NH-41(58)/(68) dated 31.01.1969, Ministry Circular No NH-3(P) 66/76 dated 18/19.11.1976, Ministry Circular No NH-3(P) 66/76 dated 11.05.1982, Ministry Circular No RW/NH-11037/1/86-DOI(2) dated 28.07.1993, Ministry Circular No RW/NH-11037/1/36-Doi dated 19.01.1995, Ministry Circular N RW/NH-34066/2/95/S&R dated 25.10.1999 and Minstry Circular No RW/NH-34066/7/2003/S&R(B) dated 17.09.2003		



7.2	Certificate from PD in the following format (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 pipeline within row will not adversely effect improvement such as widening of the carriage way easing of curve etc. (2)for six lanning (a) where feasibility is available " I do certify that there will be no hinderance to proposed six lanning based on the feasibility report considering proposed structures at the siad location" (b) In case feasibility report is not available " I do certify that sufficent row is available at site for accomodating proposedsix lanning.		
8	If NH section proposed to be taken up by NHAI on BOT basis a clause is to be inosted in the agrrement, " the premitted Highway on which licenses has been granted the permission to lay Iron Ore Slurry pipe line may likely to be handed over to the conscessionaire under the concesvision agreement for up gradtion of .....[section from km.....of NH No.....on build, operate and transfer basis] and therfore, the license shall honour the same.	Yes, interested in the agreement.	
9	Who will supervise the work laying Water Supply Pipeline	General Manager, WATCO Division, Cuttack	
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.	General Manager, WATCO Division, Cuttack	
11	Who will pay the claims for damages done/ disrupted in working of concessionaire if asked by the concessinaire.	General Manager, WATCO Division, Cuttack	
12	A certificate from PD that he will enter the proposed permission in the major of records of the permissions in the prescribed proforma (copy enclosed)		
13	If any previous approval for a lying and of under ground water supply pipel ine then photocopy or register of records of permissions accorded as.		

K. Nageshwar Rao

परियोजना निदेशक/Project Director  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
National Highways Authority of India  
प.का.इ.भुवनेश्वर/PIU, Bhubaneswar

  
General Manager  
WATCO Division  
Cuttack

