



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 हाइट्स, प्लॉट नं. 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)

ई-मेल/e-mail : roodisha@nhai.org, ronhaiodisha@gmail.com, वेबसाइट/Web : www.nhai.gov.in



NHAI/13011/54/RO/OD/1349/2024

08.07.2024

To

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

Sub: Rehabilitation and up gradation of Jharpokharia- Baripada- Baleshwar section of NH-5 from Km.0+000 to Km.80+600 in the State of Odisha under NHDP Phase-IV on EPC Mode- Proposal for laying and crossing of RWSS pipeline along NH-18 from Km.27+790 to Km.50+884 in Mayurbhanj District- Reg

Ref: PD, PIU- Chandikhole letter No. 874 dated 12.06.2024

Sir,

Please find enclosed herewith a proposal of Executive Engineer, RWSS Division, Baripada for laying and crossing of RWSS pipeline along NH-18 from Km.27+790 to Km.50+884 in Mayurbhanj District. The details are as under:

Sl. No.	Chainage	Along/ Across	Length In km	DI Pipe Dia in MM	Casing Pipe dia in MM
1	From Km.27+790 to Km.28+000	Along (LHS)	0.210	90	-
2	From Km.28+000 to Km.29+009		1.009	125	-
3	From Km.29+009 to Km.29+269		0.260	90	-
4	From Km.29+269 to Km.29+296		0.027	110	-
5	From Km.29+296 to Km.29+346		0.050	90	-
6	From Km.29+346 to Km.29+646		0.300	110	-
7	From Km.35+409 to Km.35+620		0.211	90	-
8	From Km.35+620 to Km.37+336		1.716	110	-
9	From Km.36+323 to Km.38+310		1.987	350	-
10	From Km.37+336 to Km.38+310		0.974	125	-
11	From Km.38+310 to Km.41+094		2.784	200	-
12	From Km.38+310 to Km.46+780		8.470	200	-
13	From Km.41+339 to Km.44+255		2.916	90	-
14	From Km.44+255 to Km.44+990		0.735	110	-
15	From Km.44+990 to Km.45+696		0.706	160	-
16	From Km.46+057 to Km.46+648		0.591	140	-
17	From Km.46+780 to Km.47+194		0.414	150	-
18	From Km.46+648 to Km.47+194		0.546	300	-
19	From Km.47+194 to Km.48+043		0.849	90	-
20	From Km.49+085 to Km.50+239		1.154	90	-
		Total	25.909		
1	From Km.27+956 to Km.29+373	Along (RHS)	1.417	90	-
2	From Km.35+620 to Km.37+503		1.883	90	-
3	From Km.41+094 to Km.41+549		0.455	125	-
4	From Km.41+549 to Km.43+411		1.862	90	-
5	From Km.45+670 to Km.45+763		0.093	90	-
6	From Km.46+126 to Km.46+648		0.522	300	-
7	From Km.46+780 to Km.47+034		0.254	150	-

[Signature]

8	From Km.50+239 to Km.50+884		0.645	90	-
		Total	7.131		
1	Km 27+840	Across	0.06	90	300
2	Km 28+000		0.06	90	300
3	Km 28+934		0.06	90	300
4	Km 29+296		0.06	110	300
5	Km 35+620		0.06	90	300
6	Km 36+323		0.06	350	550
7	Km 41+094		0.06	200	400
8	Km 44+990		0.06	180	400
9	Km 46+780		0.06	450	700
10	Km 47+722		0.06	90	300
11	Km 50+239		0.06	90	300
		Total	0.66		

2. Accordingly, as per guidelines issued by MoRT&H 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 faithfully,



(Sunil Kumar)
General Manager (Tech)



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

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(Ministry of Road Transport & Highways, Govt of India)

क्षेत्रीय कार्यालय, ओडिशा / Regional Office, Odisha

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NHAI/13011/54/RO/OD/1348/2024

08.07.2024

INVITATION OF PUBLIC COMMENTS

Sub: Rehabilitation and up gradation of Jharpokharia- Baripada- Baleshwar section of NH-5 from Km.0+000 to Km.80+600 in the State of Odisha under NHDP Phase-IV on EPC Mode- Proposal for laying and crossing of RWSS pipeline along NH-18 from Km.27+790 to Km.50+884 in Mayurbhanj District- Reg

Executive Engineer, RWSS Division, Baripada for laying and crossing of RWSS pipeline along NH-18 from Km.27+790 to Km.50+884 in Mayurbhanj District. The details are as under:

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(Signature)

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10	Km 47+722		0.06	90	300
11	Km 50+239		0.06	90	300
		Total	0.66		

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 Regional Officer, Odisha.



(Sunil Kumar)
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 Project Directors for processing the proposal for laying of water supply pipe line in the land along National Highways vested with N H A I .

Relevant circulars

- 1) Ministry Circular No. NH-41 (58)/68 dated 31.01.1969
- 2) Ministry Circular No. NH-III/P/66/76 dated 18/19.11.1976
- 3) Ministry Circular No. RW/NH-III/P/66/76 dated 11.05.1982
- 4) Ministry Circular No. RW/NH-11037/86-DOI(ii) dated 28.07.1993
- 5) Ministry Circular No. RW/NH-11037/1/86/DOI dated 19.01.1995
- 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 17.09.2003

Checklist for getting approval for laying of water supply pipe line on NH land from Chainage KM 27+790 to 50+884 KM

Sl.No	Item	Information/Status	Remarks
1.	General Information	Permission for laying & crossing of water pipeline at Chainage KM 27+790 to 50+884 KM On NH-18 In Mayurbhanj District.	
1.1	Name and Address of the Applicant/Agency	Executive Engineer Rural Water Supply & Sanitation Division, Baripada Mayurbhanj Dist.	
1.2	National Highway Number	NH-18	
1.3	State	Odisha	
1.4	Location	Damadapur to Bhalia	
1.5	(Chainage in km)	KM 27+790 to 50+884KM LHS laying of distribution network along the road. 90mm dia from 27+790 to 28+000 125mm dia from 28+000 to 29+009 90mm dia from 29+009 to 29+269 110mm dia from 29+269 to 29+296 90mm dia from 29+296 to 29+346 110mm dia from 29+346 to 29+646 90mm dia from 35+409 to 35+620 110mm dia from 35+620 to 37+336 125mm dia from 37+336 to 38+310 200mm dia from 38+310 to 41+094 90mm dia from 41+339 to 44+255 110mm dia from 44+255 to 44+990 160mm dia from 44+990 to 45+696 140mm dia from 46+057 to 46+648 300mm dia from 46+648 to 47+194	

PROJECT DIRECTOR,
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 Baripada

Executive Engineer
 MBJ. R.W.S.&S. Division
 BARIPADA

	(Chainage in km)	90mm dia from 47+194 to 48+043 90mm dia from 49+085 to 50+239	
	(Chainage in km)	LHS laying of clear water along the road. 350mm dia from 36+323 to 38+310 200mm dia from 38+310 to 46+780 150mm dia from 46+780 to 47+194	
	(Chainage in km)	RHS laying of distribution network along the road. 90mm dia from 27+956 to 29+373 90mm dia from 35+620 to 37+503 125mm dia from 41+094 to 41+549 90mm dia from 41+549 to 43+411 90mm dia from 45+670 to 45+763 300mm dia from 46+126 to 46+648 90mm dia from 50+239 to 50+884	
	(Chainage in km)	RHS laying of clear water along the road. 150mm dia from 46+780 to 47+034	
		Crossing of water pipe line of 90mm dia at -27+840 90mm dia at -28+000 90mm dia at -28+934 110mm dia at -29+296 90mm dia at -35+620 350mm dia at -36+323 200mm dia at -41+094 180mm dia at -44+990 450mm dia at -46+780 90mm dia at -47+722 90mm dia at -50+239	
1.6	Length in Meters	33.09 m	
1.7	Width of available ROW		
	a) Left side from center line towards increasing chainage/ km direction.	YES	
	b) Right side from center line towards increasing chain age/km. direction.	YES	
1.8	Proposal to lay underground Water Pipeline		
	(a) Left side from center line towards increasing chainage/km. direction.	(KM 27+790 to 50+239KM) 350 MM Dia 300 MM Dia 200 MM Dia 150 MM Dia 160 MM Dia 140 MM Dia 125 MM Dia 110 MM Dia 90 MM Dia	
	(b) Right side from center line towards increasing chainage/km direction.	(KM 27+956 to 50+884KM) 300 MM Dia	

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1.9	Proposal to acquire land	Not applicable	
	a) Left side from center line	Nil	
	b) Right side from center line	Nil	
1.10	Whether proposal is in the same side where land is not to be acquired.	Both from center line	
	If not then where to lay the Water pipeline	Utility corridor of NH	
1.11	Details of already laid services, if any, along the proposed route.		
1.12	Number of lanes (2/4 6/8 lanes) existing	4 Lane	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)		
1.14	Service road existing or not	Yes	
	If yes then which side		
	(a) Left side from center line	At Some Location	
	(b) Right side from center line	Do	
1.15	Proposed Service Road	NA	
	(a) left side from center line	NA	
	(b) Right side from center line	NA	
1.16	Whether proposal to lay water supply pipe line is after the service road or between the service road and main carriageway.	After Service Road	
1.17	The permission for laying of water supply pipe line shall be considered for approval / rejection based on the Ministry Circulars mentioned as above.	Agreed	
	a) Carrying of sewerage/gas pipelines 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.	NA	
	b) Carrying of water pipe lines on bridges shall also be discouraged. 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 finalized, they may be permitted to carry the pipeline on independent superstructure, supported on extended portions of piers and abutments in such a manner that in that in the final arrangement enough free space around the superstructure of the 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 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 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	

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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 that purpose at the expenses of the agency owning the line.	Pipe line shall be crossed trenches less (Jack pushing and HDD) method (conduit encasing) Detailed drawing enclosed.	
	a) Existing drainage structures shall not be allowed to carry the lines.	Agreed	
	b) Is it on a line normal to NH	Yes	
	c) Crossings 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 and detailed drawing enclosed	
	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 concrete 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 oath.	Yes Agreed	
	f) The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope in the fills.	Yes 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 0.3m below the drain inverts.	Yes Agreed	
	h) Crossing shall be by boring methods (HOD) especially where the existing road pavement is of cement concrete or dense bituminous concrete type.	Jack pushing/HDD method attached details in attached sketch.	
	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 a waterway along it.	Yes Agreed	
2.	Document/Drawings enclosed with the proposal.	Attached	
2.1	Cross section showing the size of trenches for open trenching method (is it normal size of 1.2m deep x 0.3m wide)	Details shown in the drawing attached	
	I) Should not be greater than 60cm wider than the outer diameter of the pipe.	Yes Agreed	
	II) Located as close to the extreme edge of the right-of-way as possible but not less than 15 meters from the center-lines of the nearest carriageway.	Everywhere 01 meter inside from ROW.	
	III) Shall not be permitted to run along the National Highways when the road formation is situated in double cutting. Now shall these be laid over the existing culverts and bridges.	Yes Agreed	
	IV) These should be so laid that their top is at least 0.6meter below the ground level so as not to obstruct.	Yes Agreed	
2.2	Cross section showing the size of pit and location of cable for HDD method.	Attached Annexure	

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2.3	Strip plan/Route plan showing Water supply pipe line, chainage, width of ROW, distance of proposed, cable from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Attached Annexure	
2.4	Methodology for laying of showing water supply pipe line.	Attached Annexure	
2.4.1	Open trenching method (may be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type. If yes, Methodology or refilling of trench.		
	(a) The trench width should be at least 30cm, but not more than 60cm wider than the outer diameter of the pipe.	Yes Agreed	
	(b) For filling of the trench, Bedding 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 edged should be excavated and replaced by selected material.	Yes Agreed	
	(c) the backfill shall be completed in two stages (i) side fill to the level of the top of the pipe and (ii) overfill to the bottom of the road crust.	Yes Agreed	
	(d) The side fill shall consist of granular material laid in 15cm layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the Proctor's Density. Overfill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or ponding will not be permitted.	Yes Agreed	
	(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.	Yes Agreed	
	(f) The excavation shall be protected by flagman, signs and barricades, and red lights during night hours.	Yes Agreed	
	(g) If required, a diversion shall be constructed at the expense of agency owning the utility line.	Yes Agreed	
2.4.2	Horizontal Directional Drilling (HDD) Method	Enclosed	
2.4.3	Laying of water supply 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 a distance of 30m from the bridge and subject to all other stipulations contained in this Ministry's guidelines issued with letter No. NH-HI/P/66/76 dated 19.11.1976	Agreed	
3.	Draft License Agreement signed by two witnesses	Yes, Agreed and enclosed	

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4.	Performance Bank Guarantee in favor of NHAI has to be obtained @ Rs.50/- 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 NHAI	
4.1	Performance BG as per above is to be obtained	BG will be submitted as intimated by NHAI	
4.2	Confirmation of BG has been obtained as per NHAI guidelines.	Yes Agreed	
5.	Affidavit / Undertaking from the Applicant for		
5.1	Notto damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency.	Yes, and Undertake Enclosed	
5.2	Renewal of Bank Guarantee	Shall be submitted	
5.3	Confirming all standard condition of NHAI's guideline.	Yes, and Undertake Enclosed	
5.4	Shifting of water supply pipe line as and when required by NHAI at their own cost.	Yes, and Undertake Enclosed	
5.5	Shifting due to 6 Lanning / widening of NH	Yes, and Undertake Enclosed	
5.6	Indemnity against all damage and claims clause (xxiv)	Yes, and Undertake Enclosed	
5.7	Traffic movement during laying of water supply pipe line to be managed by the applicant.	Yes, and Undertake Enclosed	
5.8	If any claim is raised by the concessionaire, then the same has to be paid by the applicant.	Yes, and Undertake Enclosed	
5.9	Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, of alternations to the showing Water supply pipe line located in the National highway right of ways.	Yes, and Undertake 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 pipe line will be borne by the agency owning the line.	Yes, and Undertake 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 Undertake Enclosed	

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5.12	Certificate from the applicant in the following format. (i) Laying of water supply pipe line will not have any deleterious effects on any of the bridge components and roadway safety for traffic. (ii) for 6-lanning "We do undertake that I will relocate service road/approach road/utilities at my own cost notwithstanding the permission granted within such time as will be stipulated by NHAI" for future six laning of any other development".	Certificate and Undertake Enclosed	
6.	Who will sign the agreement on behalf of water supply pipe line agency.	Executive Engineer, Rural Water Supply and Sanitation Division, Baripada, Mayurbhanj Dist.	
7.	Certificate from the project Director		
7.1	Certificate for confirming of all standard condition issued vide Ministry circular No. Ministry Circular No. NH-41 (58)/68 dated 31.01.1969, Ministry Circular No. NH-111/P/66/76 dated 18/19.11.1976, Ministry Circular No. RW/NH-11037/1/86-DOI (ii) dated 28.07.1993, Ministry Circular No. RW/NH-11037/1/86/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, Ministry Circular No. RW/NH-111/P/66/76 dated 11.05.1982.	Enclosed	Yes
7.2	Certificate from PD in the following format. "It is certified that any other location of the Water supply pipe line 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."	Enclosed	Yes
	i) for 6- laning		
	a) Where feasibility is available "I do certify that there will be no hindrance to proposed six-laning based on the feasibility report considering proposed structure at the said location		
	(b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed six -laning.		
8.	If 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/duct has also been granted as a right of way to the concessionaire under the concession agreement for 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."	Clause is inserted in the agreement	
9.	Who will supervise the work of laying of water supply pipe line.	Applicant	

PROJECT DIRECTOR,
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PIU CHANDIKHOLE



Assistant Engineer
RWS & S Section
Baripada

Asst. Executive Engineer
RWS & S Sub-Division
19/12/24

Executive Engineer
MBJ. R.W.S.&S. Division
BARIPADA
7/12/24

10.	Who will ensure that the defects in road portion after laying of water supply pipe line are corrected and if not corrected then what action will be taken.	Applicant	
11.	Who will pay the claims for damages done/disruption in working of concessionaire if asked by the concessionaire	Applicant	
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 accorded for laying of underground water supply pipe line, then photocopy of register of records of permissions accorded as maintained by PD, then copy be enclosed.	NA	



[Signature]
Assistant Engineer
RWS & S Section
Baripada

[Signature]
Asst. Executive Engineer
RWS & S Sub-Division
Baripada

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Executive Engineer
MBJ. R.W.S.&S. Division
BARIPADA

[Signature]
PROJECT DIRECTOR,
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PIU-CHANDIKHOLE