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, ओड़िशा /Regional Office, Odisha
301 - ए, तीसरी मंजिल, पाल हाईटस, प्लाट् नं जे/7, जयदेव विहार, भुवनेश्वर - 751013, ओड़िशा
301-A, 3rd Floor, Pal Heights, Plot No : J/7, Jayadev Vihar, Bhubaneswar- 751013, Odisha
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सत्यमेव जयते

NHAI/13011/54/RO/OD/ 2592 /2022 18.08.2022
22

To

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

Sub: Rehabilitation and up-gradation to 4-laning from Km 287.200, i.e. Rajamunda to Km 337.185, i.e. Barkote Section of NH-23 (New NH-143) on EPC Mode - **Laying of Clear Water Rising Main Pipeline along & across the NH-143 at Lahunipada & Gurundia Block by M/s RWS&S, Rourkela - Reg**

Sir,

Please find enclosed herewith a proposal of Superintending Engineer, RWS&S Division, Rourkela for Laying of 90mm to 350 mm dia water pipeline with maximum 600mm width along the LHS & RHS of NH-143 from Km 256+350 to Km 291+335 and 7nos of Crossings. The details is as under:

Sl. No.	Chainage		Side	Length (m)	Width of Corridor (mm)	Remarks
	From	To				
1	256+350	258+600	RHS	2250	500	HDPE 90mm
2	262+750	272+020	RHS	9270	500	HDPE 110mm+125mm
3	272+300	287+200	RHS	14900	600	HDPE 125mm+110mm
4	287+200	287+660	RHS	460	600	HDPE 110mm
5	256+700	262+300	LHS	5600	500	HDPE90mm+DI-200mm
6	262+300	272+310	LHS	10010	600	HDPE125+140+DI 200mm
7	272+300	287+200	LHS	14900	500	HDPE-160mm
8	287+200	291+335	LHS	4135	500	HDPE-90mm
9	258+250		Across	60	600	DI-200mm+HDPE 125mm
10	264+560		Across	60	600	DI-250mm
11	266+750		Across	60	600	DI-200mm+HDPE 160mm
12	279+960		Across	60	600	DI-350mm+HDPE 125mm
13	287+200		Across	60	600	HDPE 110mm
14	291+200		Across	60	600	HDPE 90mm
15	292+498		Across	60	600	HDPE 90mm

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,

22/8/22

(D.K. Patra)
Manager (Tech)

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय,भारत सरकार))
National Highways Authority of India
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NHAI/13011/54/RO/OD/ 2591 /2022

18.08.2022
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INVITATION OF PUBLIC COMMENTS

Sub: Rehabilitation and up-gradation to 4-laning from Km 287.200, i.e. Rajamunda to Km 337.185, i.e. Barkote Section of NH-23 (New NH-143) on EPC Mode - **Laying of Clear Water Rising Main Pipeline along & across the NH-143 at Lahunipada & Gurundia Block by M/s RWS&S, Rourkela - Reg**

Superintending Engineer, RWS&S Division, Rourkela has submitted a proposal for Laying of 90mm to 350 mm dia water pipeline with maximum 600mm width along the LHS & RHS of NH-143 from Km 256+350 to Km 291+335 and 7nos of Crossings. The details is as under:

Sl. No.	Chainage		Side	Length (m)	Width of Corridor (mm)	Remarks
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10	264+500		Across	60	600	DI 250mm
11	266+750		Across	60	600	DI-200mm+HDPE 160mm
12	279+960		Across	60	600	DI-350mm+HDPE 125mm
13	287+200		Across	60	600	HDPE 110mm
14	291+200		Across	60	600	HDPE 90mm
15	292+498		Across	60	600	HDPE 90mm

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".**

22/8/22

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 Dated18/19 -11-1976
3. Ministry Circular No.RW/NJ-111/P/66/76 Dated01-05-1982
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.22nd 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 350 mm Dia water pipelinewith maximum 600mm width along the LHS& RHS of NH 143 from CH 256.350 to CH 291.335	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) (Banki to Narendra)	
1.3	STATE	ODISHA	
1.4	Location	Ch-256.350 to Ch-291.335	
1.5	Chainage in Km	1.Existing CH.KM-256.350 to Existing CH.KM-258.600(NH-143) **(RHS)** 2.Existing CH.KM-256.70 to Existing CH.KM-258.250(NH-143) **(LHS)** 3. Existing CH.KM-262.750 to ExistingCH.KM-272.020(NH-143) **(RHS)** 4.ExistingCH.KM 258.250 to Existing CH.KM 272.310(NH-143) **(LHS)** 5. ExistingCH.KM 272.300 to Existing CH.KM 287.660(NH-143) **(RHS)** 6. ExistingCH.KM 272.300 to Existing CH.KM 291.335(NH-143) **(LHS)** 7. Existing CH.KM-258.250(NH-143) 8.Existing CH.KM-264.560(NH-143) 9.Existing CH.KM-266.750(NH-143) 10.Existing CH.KM-279.960(NH-143) 11.Existing CH.KM-287.200(NH-143) 12.Existing CH.KM-291.200(NH-143) 13.Existing CH.KM-292.498(NH-143)	
1.6	Length in Metres	1. Along the ROW-61525M(NH-143) 2. 7nos Crossing -560Mtr(NH-143)	
1.7	Width Of Available Road Of NHAI Land	60m	
	(a) Left Side From Centre Line (Towards Increasing Chainage/KM Direction)	30 m from centre line	
	(b) Right Side From Centre Line (Towards Increasing Chainage/KM Direction)	30 m from centre line	
1.8	Proposal To Lay Underground Water Pipeline	YES	
	(a) Left Side From Centre Line (Towards Increasing Chainage/KM Direction)	from CH 256.700 to CH 291.335	

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National Highways Authority of
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Bipion U Mishra
Team Leader cum Sr. Highway Engineer
Rajamunda-Barkote NH-23

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

	(b) Right Side From Centre Line (Towards Increasing Chainage/KM Direction)	from CH 256.350 to CH 287.660	
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	

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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 in 15M	
	(d) The casing pipe (or conduit pipe in theCase 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	
	(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 ,	Attached	

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	intersection , cross drainage work etc.		
2.4	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 value(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. ..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 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 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	

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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	
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 laning "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 – laning 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	Bipion U Mishra Team Leader cum Sr. Highway Engineer Rajamunda-Barkote NH-23	Superintending Engineer R.W.S & S. Division Rourkela

परियोजना निदेशक PROJECT DIRECTOR भारतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highways Authority of India ग.ड. राउरके / PIU, Rourkela

	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		
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"		
	(B) In case feasibility Report is not available – " I do certify that sufficient ROW is available At site for accommodating proposed six laning 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.	RWSS, 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,RWSS . Shall comply	
11	Who will pay the claims for damage done /disruption in working of concessionaire if Asked by the concessionaire.	RWSS 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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