



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

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NHAI/13011/54/RO/OD/ 63 /2023

04.01.2023

To

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

Sub: Rehabilitation & Up gradation of Cuttack- Angul section of NH-42 (New NH-55), Pkg-I in the State of Odisha under NHDP-IV on EPC Mode-Proposal for laying of Raw water, clean water & distribution pipe line along and across the NH-55 for the work "Execution of individual rural PWS projects to Goinda & Bhuban of Dhenkanal district including 5 years O & M as submitted by MEIL"- Reg

Sir,

Please find enclosed herewith a proposal of Superintending Engineer, RWSS Division, Dhenkanal regarding Permission to laying Raw water, clear water and distribution pipeline along and across the NH-55 for the work "Execution of individual rural PWS projects to Goinda & Bhuban of Dhenkanal district. The details are as under:

Sl No.	Description	Chainage	Dia of DI pipeline (mm)	Dia of MS casing pipe (mm)	RHS/LHS	Remark
1.	Along NH	Km. 29+550 to Km.32+950	100	NA	LHS	From Kasiapada to Nadiali
2.		Km.32+950 to Km.36.080	300			From Nadiali to Govindpur
3.		Km.36+080 to Km.43+000	200			Govindpur to Kantanali
4.		Km.29+550 to Km.37+050	100		RHS	Govindpur to Kasiapada
5.	Crossing	Km 29+559	100	250	NA	Kasiapada
6.		Km.36085	200	500	NA	Govindpur
7.		Km.32+950	300	500	NA	Nadiali

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,

Abinash Behera
04.01.2023

(Abinash Behera)
Dy. Manager (Tech)



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भारतीय राष्ट्रीय राजमार्ग प्राधिकरण (सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार) National Highways Authority of India (Ministry of Road Transport & Highways, Govt. of India)

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NHAI/13011/54/RO/OD/ 62 /2023

04.01.2023

INVITATION OF PUBLIC COMMENTS

Sub: Rehabilitation & Up gradation of Cuttack- Angul section of NH-42 (New NH-55), Pkg-I in the State of Odisha under NHDP-IV on EPC Mode-Proposal for laying of Raw water, clean water & distribution pipe line along and across the NH-55 for the work "Execution of individual rural PWS projects to Goinda & Bhuban of Dhenkanal district including 5 years O & M as submitted by MEIL- Reg

Superintending Engineer, RWSS Division, Dhenkanal has submitted a proposal for laying Raw water, clear water and distribution pipeline along and across the NH-55 for the work "Execution of individual rural PWS projects to Goinda & Bhuban of Dhenkanal district. The details are as under:

SI No.	Description	Chainage	Dia of DI pipeline (mm)	Dia of MS casing pipe (mm)	RHS/LHS	Remark
1.	Along NH	Km. 29+550 to Km.32+950	100	NA	LHS	From Kasiapada to Nadiali
2.		Km.32+950 to Km.36.080	300			From Nadiali to Govindpur
3.		Km.36+080 to Km.43+000	200			Govindpur to Kantanali
4.		Km.29+550 to Km.37+650	100		RHS	Govindpur to Kasiapada
5.	Crossing	Km.29+559	100	250	NA	Kasiapada
6.		Km.36085	200	500	NA	Govindpur
7.		Km.32+950	300	800	NA	Nadiali

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".

A. K. Singh
04.01.2023

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

CHECK LIST

Guideline for the project Director for processing the proposal for laying of water Supply Pipe line in the land along National highway Vested with NHAI

Relevant Circular

1. Ministry Circular No. NH-41 (58)/68 dated 31.1.1969
2. Ministry Circular No. NH-III/p/66/76 18 dated 19.11.1976
3. Ministry Circular No.RW/ NH-III/P/66/76 dated 11.5.1982
4. Ministry Circular No.RW/ NH-11037/1/86-DOI(ii) dated 28.7.1993
5. Ministry Circular No. RW/NH-11037/1/86-DOI(ii) dated 19.1.1995
- 6 Ministry Circular No.RW/ NH-34066/2/95/S&R dated 25.10.1999
7. Ministry Circular No.RW/ NH-34066/7/2003S&R(B) dated 17.9.2003

RW/NH-33044/29/2015/S&R(R)

Check list for getting approval for laying of water Supply Pipe Line on NH land no-55

S.No	Item	Information/status	Remarks
1	General Information	Permission for laying and crossing of water pipe line at chinage 29.55 to 43.00 on NHAI Village Kuspada to Kantanali bypass chawck ,Town Dhenkana,District Dhenkanal	
1.1	Name and address of the Applicant/Agency	Executive Engineer, Rural water supply & Sanitation Govt. Of Odhisa , Near Municipality ,Dhenkana-759001	
1.2	National highway Number	NHAI-55	
1.3	State	Odhisa	
1.4	Location	Chainage 29+55 to 43+00 location kuspada village to Kantanali Chawck ,Dhenkanal	
1.5	(Chainage in KM)	29.55 to 43.00 LHS Laying of Pipe Line 29+559 to 32+950 - 100mm , 32+950 to 36+085 -300mm ,36+085 to 43+00-200mm, RHS Laying of pipe line Ch 29+559 To 37+650	
1.6	Length in meter	13450 (LHS) & 8100 (RHS).	
1.7	Width of available ROW	Existing ROW	
	a) Left side from center line towards decreasing chainge/Km direction	Varry from 27.222 M to 43.9 M	
	b) Right side from center line towards decreasing chainge/Km direction	Vary from 16 M to 40M	



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1.8	Proposal to lay underground water pipe line		
	a) Right side from center line towards decreasing chainage/Km direction	Vary from 25M to 30.4M	
	b) left side from center line towards decreasing chainage/Km direction	Vary from 16M to 33.4M	
1.9	Proposal to acquire land	.	
	(a) Left side from the center line	nil	
	(b) right side from the center line.	nil	
1.10	Whether proposal is in the same side where land is not to be acquired	Both side from Center line	
	If not then where to lay water pipe line		
1.11	Details of already laid servicees, if any, along the proposed route.	GAS pipe Line, Shown in Drwg	
1.12	Number of lanes (2/2,2/4,2/6) 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		
	(a) Left side from the center line	Under construction 20 mtr Ch 38875 to 38975,	
	(b) right side from the center line.	Under construction 20 mtr Ch 38875 to 38975,	
1.15	Proposed service road		
1.16	Whether proposal to lay Water supply Pipe line is after the service road or between the service road and main carriageway	After the service road	
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.	Agreed	
	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 bridges shall not be permitted as furnes/gases pipes can accelerate the process of corrosion or may cause explosions, thus.being much more injurious than leakage of water.	NA	



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	(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 the final arrangement enough free space around the superstructure of the bridge remains available for inspection and repairs, etc.	No Highway bridge shall not be involve in laying the proposed pipe line.	
	(c) Cost of required extension of the superstructure as well as that of the supporting superstructure shall be born by the agency-in-charge of the utilities.	NA	
	(d) Service 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 crossing 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	Jack Pushing method trench we shall be adopted for NHAI-55 crossing where in depth of 2.5 meter at the center level shall be maintain.	
	(a) Existing drainage structure shall not be allowed to carry the lines.	Agreed	
	(b) Is it on a line normal to NHAI	Yes	
	(c) Crossing shall not be too near the existing Structures on the National Highway, the minimum distance being 15 meter. What is the distance from the existing structures.	(i). 800 METER from existing culvert towards cutback	
	(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	In Jack Pushing method with 500mm dia MS casing pipe Thickness 8mm and carrying pipe DI 300 mm as IS 8329 specification	
	(e) Ends of the casing/conduit pipe shall be sealed from the outside, So that it does not act as a drainage path	Yes Agreed	
	(f) The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope toe of slope in the fills.	Yes Agreed	



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	(g) The top pf 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 inverts.	Yes Agreed	
	(h) Crossing shall be by boring method (HDD) specially where the existing road pavement is of cement concrete or dense.	Jack Pushing method attached details 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/Drawing enclosed with the proposal.	Attached	
8	Cross section showing the size of trench for open trenching method(Is it normal size of 1.2m deepx 0.3m wide)	Yes Agreed	
	(i) Should not be greater than 60cm wider than the outer diameter of the pipe.		
	(ii) located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the center-lines of the nearest carriageway.	Every where inside of ROW and more than 15 meter from the center-lines of the nearest	
	(iii) Shall not be permitted to run alongthe National Highway When the road formation is situated in double cutting. Nor Shall these be laid over the existing culverts and bridges.	Yes Agreed	
	(iv) These should be so laid that their top is at least 0.6 meter below the ground level so as not to obstruct drainage of the road land.	Yes Agreed	
2.2	Cross section showing the size of pit and location of cable for HDD method.	attached Annexure	
2.3	Strip plan/Route plan showing Water Supply pipe line, chainage, width of ROW, dlatance of proposed, cable from the edge of ROW, important mile stone, intersection, cross drainage works etc.	attached Annexure	
2.4	Methodology for laying of showing water supply 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 of refilling of trench.	NA	
	(a) The trench width should be at least 30 cm, but not more than 60 cm wider than the outer diameter of the pipe	NA	
	(b) For filling of the trench, Bedding shall be to a depth of not less than 30 cm. It shall consist of granular material, free of lumps, clods and cobbles and graded to ayeild a Unsuitable soil and rock edged should be excavated and replaced by selected material.	NA	



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	(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.	NA	
	(d) The sidefill 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. (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.	NA	
	(f) The excavation shall be protected by flagman, signs and barricades, and red lights during night hours.	NA	
	(g) If required, a diversion shall be constructed at the expense of agency owning the utility line	NA	
2.1.2	Horizontal Directional Drilling (HDD) Method	Enclosed	
2.1.3	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 30cm from the bridge and subject to all other stipulation contained in his 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.	Enclosed	
4	Performance bank Guarantee in favour of NHAH has to be obtained @ Rs50/- 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 NHAH to the licensee for clearing debris/loose earth.	BG Will be submitted as intimated by NHAH	
4.1	Performance BG as per above is to be obtained.	BG Will be submitted as intimated by NHAH	
4.2	Confirmation of BG has been obtained as per NHAH guideline	Yes agreed	
5	Affidavite/undertaking from the applicant for		



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7-9-22

5.1	Not damage to other utility, if damaged then to pay the losses either to NHAI or to the concern agency	Yes and Undertake Enclosed	
5.2	Renewal of bank guarantee	Yes and Undertake Enclosed	
5.3	Confirming all standard condition of NHAI's guidelines	Yes and Undertake Enclosed	
5.4	Shifting to water pipeline 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 damages 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, or alteration to the showing Water supply pipe line located in the National Highway right-of-ways	Yes and Undertake Enclosed	
5.11	Expenditure ,if any, incurred by NHAI for repairing any damage caused to the national highway by the laying, maintainance or shifting of the water supply pipe line will be borne by the agency owing the line.	Yes and Undertake Enclosed	
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- lanning or any other development."	Certificate and undertake enclosed	
6	Who will sign the agreement on behalf of water Supply pipe line agency.	Excutive Engineer RWS&S	
7	Certificate from Project Director.		
7.1	Certificate for confirming af all standard condition issued vide Ministry circular No. NH-41 (58)/68 dated 31.1.1969. Ministry Circular No.NH-III/P/66/76 dated 18/19.11.1976, Ministry Circular No.Rw/NH-III/P/66/76 dated 11.5.1982. Ministry Circular No. RW/NH-11037/1/86-DOI. (ii) dated 28.7.1993, Ministry Circular No. Rw/NH-11037/1/86/DOI dated 19.1.1995. 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 17.9.2003		



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7.2	<p>Certificate from the PD in the Following Format</p> <p>(i)"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 curves etc.</p> <p>(ii)for 6-lanning</p> <p>(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 structures at the said location".</p> <p>(b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodation proposed six-lanning".</p>		
8	<p>If NH section proposed to be taken up by NHA on BOT basis-a clause is to be inserted in the agreement."The permitted Highway on which Licensee has been granted the right of lay cable/duct has also been granted as a right of way to the concessionaire under the concession agreementfor 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."</p>	Clause is in inserted in the agreement	
9	Who will supervise the work of laying of water Supply pipe line.	Applicant	
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 proposed permission in the register of record of the permission in the prescribed proforma(Copy enclosed).		
13	If any previous approval is accorded for laying of underground water Supply pipe line then Photocopy of register of record of permission accorded as maintained by PD then copy be enclosed.	NA	



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