



# 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 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

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NHAI/13011/54//RO/OD/ 1008/2019

16.05.2019

To

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

Sub: Permission for laying water pipeline across NH- 23 (New NH-143) near Tarkera Pump House for NSPCL, Rourkela PP-II Expansion Power Project (1x250 MW)-reg.


Sir,

Please find enclosed herewith a proposal seeking NOC for laying Water Pipelines across NH-23 (New NH-143) at chainage 242.400 near existing Tarkera Pump House, Rourkela the district of Sundargarh in the State of Odisha.

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 is 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,

  
(A.K. Ray)

General Manager (Tech)



## भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

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NHAI/13011/54//RO/OD/ 1007/2019

16.05.2019

### INVITATION OF PUBLIC COMMENTS

**Sub: Permission for laying water pipeline across NH- 23 (New NH-143) near Tarkera Pump House for NSPCL, Rourkela PP-II Expansion Power Project (1x250 MW)-reg.**

NTPC SAIL POWER COMPANY LIMITED, Rourkela has submitted a proposal seeking NOC for laying of Water Pipelines across the NH-23 (New NH-143) at chainage 242.400 near existing Tarkera Pump House, Rourkela the district of Sundargarh 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](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

## CHECK – LIST

**Guidelines for Project Directors/Divisional Engineers/ Executive Engineers for processing the proposal for laying of Water Pipeline in the land across National Highway..**

### Relevant circulars

- 1) Ministry Circular No. NH-41 (58)/68 dated 31.01.1969
- 2) Ministry Circular No. NH-III/P/88/76 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-11037/1/86-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
- 8) Ministry Circular No. RW/NH-34044/29/2015/S&R @ dated 22.11.2016

### Check list for getting approval for laying of Water pipeline crossing NH-23 land.

S.No	Item	Information/Status	Remarks
1	General Information	NTPC-SAIL Power Company Limited, Rourkela intends to construct Raw Water Intake Facilities at Brahmani River beside Existing Tarkera Pump House and Supply water using GRP pipe line to NSPCL, Rourkela PP-II Expansion Project (1X250MW) at Rourkela, Sundergarh District in the state of Odisha. The proposed water supply Pipeline will cross NH-23 ROW at NH Chainage 242.400 km in the state of Odisha, which comes under your jurisdiction. The water pipeline at this crossing will be laid at a minimum depth of 1.2 mtr. below the Natural ground level, by Horizontal directional drilling method.	
1.1	Name and Address of the Applicant/Agency	THE GENERAL MANAGER & BUSINESS UNIT HEAD NTPC-SAIL Power Company Limited CPP-II, Administrative Building, SAIL-RSP Complex Rourkela-769011 Odisha	
1.2	National Highway Number	NH-23	
1.3	State	Odisha	
1.4	Location	Near Existing Tarkera Pump House in Rourkela, Sundergarh District	
1.5	(Chainage in km)	NH 23 ( at Ch- 242.400KM)	
1.6	Length in Meters	60 M	Crossing
1.7	Width of available ROW		
	(a) Left side from center line towards increasing chainage/km direction	30 M	
	(b) Right side from center line towards increasing chainage/ km direction	30 M	
1.8	Proposal to lay underground GRP Pipeline for NSPCL, Rourkela expansion project (1 X 250 MW)	Pipeline will be laid across NH-23 at the location	
	(a) Left side from center line towards increasing chainage/km direction.	N/A	
	(b) Right side from center line towards increasing chainage/km direction.	N/A	
1.9	Proposal to acquire land	No NH land will be acquired for pipeline laying.	

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	(a) Left side from center line.	NA	
	(b) Right side from center 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 cable.	NA	
1.11	Details of already laid services, If any, along the proposed route	NA	
1.12	Number of existing lanes (2/4/6/8 lanes)	2 Lanes	
1.13	Proposed Number of lanes (2 lanes with paved shoulders/4/6/8 lanes)	4 Lanes with paved shoulders	
1.14	Service road existing or not	NO	
	If yes then which side		
	(a) Left side from centre line	NA	
	(b) Right side from centre line		
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 pipeline is after the service road or between the service road and main carriageway	N/A	
1.17	Whether carrying of water pipeline has been proposed on highway bridges. If yes, then mention the methodology proposed for the same.	NO	
1.18	Whether carrying of water pipeline has been proposed on the parapet/any part of the bridges. If yes, then mention the methodology proposed for the same.	NO	
1.18	<b>If crossing of the road involved</b>		
	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	Agreed	
	(a) Whether existing drainage structures are allowed to carry water pipeline	NO	
	(b) Is it on a line normal to NH	YES	
	(c) What is the distance of crossing the sewage/gas pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter.	Distance from nearest structure 110m (> 15 M)	
	(d) The casing pipe (or conduit pipe in the case of electric / OFC 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. Mention type of casing.	Agreed	
	(e) Ends of the casing/conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.	Agreed	
	(f) The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope in the fills.	Agreed	

  
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	(g) The top of the casing/conduit pipe should be at least 1.2meter below the surface of the road subject to being at least 0.3 m below the drain inverts.Mention the proposed details.	Agreed	
	(h) Mention the methodology proposed for crossing of road for the proposed water pipeline. Crossing shall be Trench-less Technology especially where the existing road pavement is of cement concrete or dense bituminous concrete type.	HDD Method	
	(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.	Agreed	
2	<b>Document / Drawings to be enclosed with the proposal.</b>		
2.1	Cross section showing the size of trench for open trenching method (Is it normal size of 1.2m deep X 0.3m wide)	Yes,cross sectional drawing enclosed	
	(i) Should not be greater than 60 cm wider than the outer diameter of the pipe.	N/A	
	(ii) Located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-lines of the nearest carriageway.	N/A	
	(iii) Shall not be permitted to run along the National Highways when the road formation is situated in double cutting. Nor shall these be laid over the existing culverts and bridges.	NA	
	(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.	NA	
2.2	Cross section showing the size of pit and location of pipe for HDD method.	Attached	
2.3	Strip plan / Route Plan showing Water pipe line, Chainage, width of ROW, distance of proposed, important mile stone, intersections, cross drainage works etc.	Incorporated in the Drawing	
2.4	Methodology for laying of Water pipe line.	Horizontal Directional Drilling method(HDD)	
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, What is the Methodology of refilling of trench.	N/A	
	(a) The trench width should be at least 30 cm, but not more than 60 cm wider than the outer diameter of the pipe.	N/A	
	(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 yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edged should be excavated and replaced by selected material.	N/A	
	(c) The backfill shall be completed in two stages (i) side fill to the level of the top to the pipe and (ii) overfill to the bottom of the road crust.	N/A	

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	(d) The side fill shall consist of granular material laid in 15cm layers each consolidated by mechanical tamping and controlled addition of moisture to 95% of the Proctor's Density. Over fill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or pending will not be permitted.	N/A	
	(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.	N/A	
	(f) The excavation shall be protected by flagman, signs and barricades, and red lights during night hours.	N/A	
	(g) If required, a diversion shall be constructed at the expenses of agency owning the utility line	N/A	
2.4.2	Horizontal Directional Drilling Method	Yes	
2.4.3	Methodology for laying of water Pipe Line through CD works and method of laying. In cases where the carrying of water pipeline on the bridge becomes inescapable.	N/A	
3	Draft License Agreement	Attached	
4	Performance Bank Guarantee in favour of NHAI has to be obtained @ Rs 250/- per running meter for 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 water pipeline with OFC /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. Performance BG as per above is to be obtained.	NSPCL will submit Bank Guarantee at the time of issue of permission	
4.1	Confirmation of BG has been obtained or not as per NHAI guidelines	NSPCL will submit Bank Guarantee at the time of issue of permission (Undertaking attached)	
5	<b>Affidavit / Undertaking from the Applicant for the following is to be furnished.</b>		
5.1	Not to Damage to other utility, if damaged then pay the losses either to NHAI or to the concerned agency	undertaking is given mentioning all these clauses/stipulations	
5.2	For Renewal of Bank Guarantee		
5.3	For Confirming all standard condition of Ministry Circulars and NHAI's guideline		
5.4	For Shifting of Water pipe line as and when required by NHAI at their own cost	Agreed, Undertaking is given mentioning all these clauses/stipulations	
5.5	For Shifting of Water pipeline due to 6 lanning / widening of NH		
5.6	For Indemnity against all damages and claims		

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5.7	For Traffic movement during laying of Water pipe line to be managed by the applicant.	Agreed, Undertaking is given mentioning all these clauses/stipulations	
5.8	If any claim is raised by the Concessionaire then the same has to be paid by the applicant.		
5.9	Prior approval of the NHAI shall be obtained before undertaking any work if installation, shifting or repairs, or alterations to the Water pipe line/any other utility located in the National Highway right-of-ways.		
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 pipe line will be borne by the applicant agency owning the line.		
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.		
5.12	Certificate from the applicant in the following format		
	(i) <i>Laying of Water pipe line will not have any deleterious effects on any of the bridge components and roadway safety for traffic.</i>	Undertaking is Enclosed	
	(ii) <i>"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."</i>		
6	Who will sign the agreement on behalf of Water pipe line agency?	THE GENERAL MANAGER & BUSINESS UNIT HEAD NTPC-SAIL Power Company Limited CPP-II, Administrative Building, SAIL-RSP Complex Rourkela-769011, Odisha	
6.1	Power of Attorney to sign the agreement is available or not	Attached	
7	<b>The Project Director, will submit the following Certificates.</b>		
7.1	Certificate for proposal for confirming of all standard condition issued vide Ministry of Road Transport and Highways Circular No. NH-III /P /66 /76 dated 18/19.11.1976, RW/NH-III/P/66/76 dated 11.5.1982, RW/NH-11037/1/86/DOI (ii) dated 28.7.1993, RW/NH-11037/1/86/DOI dated 19.1.1995, RW/NH-34066/2/95/S&R dated 25.10.1999 and Circular No. RW/NH-34066/7/2003 S&R (B) dated 17.9.2003	Certificate enclosed	
7.2	Certificate from PD in the following format		

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	(i) " It is certified that any other location of the Water pipeline would be extremely difficult and unreasonable costly and the installation of water pipeline 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".	Certificate enclosed	
	(ii) 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 Water pipeline 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."	N.A	
9	Who will supervise the work of laying of Water pipe line		
	(a) On behalf of the Applicant	NTPC-SAIL Power Company Limited	
	(b) On behalf of NH/ Authorized Agency	Will be decided by NH/ Authorized agency	
10	Who will ensure that the defects in road portion after laying of Water Pipe line are corrected and if not corrected then what action will be taken		
	(a) On behalf of the Applicant	NTPC-SAIL Power Company Limited	
	(b) On behalf of NHAI	Will be decided by NHAI/ Authorized agency	
11	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire?		
	On behalf of the Applicant	NTPC-SAIL Power Company Limited	

  
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