



## भारतीय राष्ट्रीय राजमार्ग प्राधिकरण (राष्ट्रिय 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 हाइट्स, 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/Tel. : +91-674-2361570/670  
फैक्स/Fax : +91-674-2361770  
ई-मेल /e-mail : roodisha@nhai.org  
ronhaiodisha@gmail.com  
वेबसाइट/Website : http://www.nhai.org

NHAI/13011/16//RO/OD/ 867 /2018

10.04.2018

To

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

Sub: Permission for laying of 33 KV under-ground cable and construction of 33 KV overhead line along the NH-5A from Marshaghai Canal Bridge to Marshaghai Crossing-- reg

Sir,

Please find enclosed herewith a proposal seeking NOC for laying of 33 KV under-ground cable and construction of 33 KV overhead line along the NH-5A from Marshaghai Canal Bridge to Marshaghai Crossing in the State of Odisha by EE (Elect), KED-II, CESU, Marshaghai.

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,

  
General Manager (Tech.)



# 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

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NHAI/13011/16//RO/OD/ 862 /2018

10.04.2018

## INVITATION OF PUBLIC COMMENTS

**Sub:** Permission for laying of 33 KV under-ground cable and construction of 33 KV overhead line along the NH-5A from Marshaghai Canal Bridge to Marshaghai Crossing- reg


EE (Elect), KED-II, CESU, Marshaghai has submitted a proposal seeking NOC for laying of 33 KV under-ground cable and construction of 33 KV overhead line along the NH-5A from Marshaghai Canal Bridge to Marshaghai Crossing 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

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



## CMEC Consulting Engineers Pvt. Ltd.

Supervision consultant for maintenance of Balesore-Chandikhole section of NH-5 & Chandikhole-Paradeep section of NH-5A in Odisha State

Ref: CMEC/NHAI/Odisha/BCHP/2017/2542

Date: 07.12.2017

To,  
The Project Director,  
National Highways Authority of India,  
1<sup>st</sup> Floor, Setu Bhawan  
Nayapalli, Unit- VIII.  
Bhubaneswar - 751012

**Sub:** Consultancy Services for short term improvement and routine maintenance for the stretch of Balasore - Chandikhole section of NH.5 from Km.80.99 to km.218.135 and Chandikhole-Paradip section of NH-5A from Km.0.000 to Km.77.000 in the State of Odisha.- **Permission towards drawal of 33KV UG Cable and Construction of 33 KV Overhead line along the National highway From Marshaghai canal Bridge to Marshaghai Crossing of NH- 5A. -reg.**

**Ref:** Your letter no. NHAI/11016/32/RO(UGC\_CESU\_46.950-49.850\_NH-5A)/2017/PIU/BBSR/3024 dated 27.11.2017.

Dear Sir,

With reference to the subject cited above, it is to say that the proposal submitted for 33 KV Underground cable and Construction of 33 KV Overhead line along the National Highway from Marshaghai canal Bridge to Marshaghai Crossing i.e From Chainage 46+950 to 49+850 has been checked and found to be in order. Therefore it is recommended to issue necessary permission for 33KV UG Cable and Construction of 33 KV Overhead line on NH-5A with the condition to follow the guidelines of MoRT&H No. - RW/NH-33044/37/2005/S&R (R) (Pt.) dated 06/07.08.2013 and also to contact our field staff during execution of work. The original documents as received are returned herewith for necessary action.

Thanking you & assuring you our best services at all the time.

Yours truly,

(K.C.Sahoo)  
Authorised Signatory

Encl: As above.

भा.रा.स.प्र., NHAI  
उ.का.ड., भुवनेश्वर/PIU, Bhubaneswar  
आय.सं./Dy. No. 6.S.M.....दि/Date 12-12-17  
सा.सं./F. No.....  
को मार्क किया

11/12/17  
XP/sb  
Shakti Samanta  
Bhubaneswar  
14/12/17

### CERTIFICATE

**Sub: Permission for laying of 33KV under-ground cable and construction of 33KV overhead line along the National Highway from Marshaghai Canal Bridge to Marshaghai Crossing**

7.1 It is to certify that the proposal are confirming of all standard condition issued vide Ministry/ NHAI Circular No. NH-41 (58)/68 dated 31.01.1969, Ministry Circular No. RW/NH-III/P/66/76 dated 18/19<sup>th</sup> November 1976, Ministry Circular No. RW/NH-III/P/66/76 dated 11.05.1982, Ministry Circular No. RW/NH/-11037/1/86-DOI 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 and subsequent modification.

7.2 (i) "It is certified that any other location for the proposal would be extremely difficult and unreasonable costly and the construction of overhead line within RoW will not adversely affect the design, stability and traffic safety of the highway nor the likely future improvement such as widening of the carriageway, easing of curve etc."

(ii) for Six Laning.

(b) "I do certify that sufficient RoW is available at site for accommodating proposed six laning".

12. It is to certify that the undersigned will enter the proposed permission in the register of records of the permissions in the prescribed pro forma.



(Biju Patir)  
Project Director  
NHAI, PIU, Bhubaneswar



Sl. No	Item	Information/Status	Remarks
1	General Information	33/11kV Sub-Station at Thauri, PMU, ODSSP Project, OPTCL Bhubaneswar Supervised by MECON Carried by CESU	
1.1	Name and address of the applicant/agency	EXECUTIVE ENGINEER (Elect.)Kendrapara Electrical Division No-II,Marshaghai.	
1.2	National Highway Number	NH-5A(Old), NH-53(New)	
1.3	State	Odisha	
1.4	Location	Marshaghai	
1.5	(Chainage in Km.)	47/015 to 49/850	
1.6	Length in Meters.	2.835 mtr	
1.7	Width of available Row		
a.	Left side from centre line towards increasing chainage/km. direction	50.00 mtr.	
b.	Right side from centre line towards increasing chainage/km. direction	50.00 mtr.	
1.8	Details of already laid service,if any along the proposed route.	Nil	
1.9	Service road existing or not	NA	
	If yes then which side	NA	
a	Left side from center line	NA	
b	Right side from center line.	NA	
1.10	Whether proposal to lay electric power line is after the service road or between the service road and main carriageway.	Power line is proposed to be laid along the utility corridor.	
1.11	The permission for laying of electric power line shall be considered for approval/rejection based on the prevailing Ministry Circulars mentioned as above		
a	Carrying of sewage/gas pipe line on highway bridge shall be considered for approval/rejection based on the prevailing Ministry Circulars mentioned as above.	Agreed	
b	Carrying of water pipe lines or 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 pipe line on independent superstructures 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.	Agreed	

S. S. Sharma  
XP (T/K)

Manager (Tech)  
National Highways Authority of India  
Project Implementation Unit-Bhubaneswar

परियोजना निदेशक/Project Director  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
प्र.नि.ए.डी. नो-II  
Marshaghai

29/01/18

(c)	Cost of required extension of the structure as well as that of the supporting structure shall be borne by the agency in charge of the utilities.	Agreed	
(d)	Service are not being allowed indiscreetly on the parapet/any part of the bridges. Safety of the bridges has to be kept in a view while permitting various services along bridge. Approvals are to be accorded in the regard with the concurrence of the Ministry's project Chief Engineers only.	Agreed	
1.12	If crossing of the road involved. If yes, it shall be either encased in pipes or through structure of conduits specially built for the purpose at the expenses of the agency owning the line.	Horizontal Dimensional Trenchless Drilling (HDD)	
(a)	Existing drainage structures shall not be allowed to carry the lines.	Agreed	
(b)	Is on a line normal to NH	Yes	
(c)	Crossing shall not be to near the existing structures on the National Highway, the minimum distance being 15 meter. What is the distance from the existing structures?	Agreed	
(d)	The casing power line 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.	Agreed	
(e)	Ends of the casing pipe shall be sealed from the outside, so that it does not act as a drainage path	Agreed	
(f)	The casing pipe should, as minimum extend from drain to drain in cuts and toe slope in the fills.	Agreed	
(g)	The top of the casing pipe should be at least 1.2 meter/3 times diameter of casing pipe whichever is higher below the surface of the road subject to being at least 0.3 mtr below the drain inverts.	Agreed	
(h)	Crossing shall be by boring method (HDD) specially where the existing road pavement is of cement concrete of dense bituminous concrete type.	Agreed	
(i)	The casing 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	Document / Drawings enclosed with proposal should indicate the following		

ss Bhushan  
78 (Tech)

Manager (Tech)

National Highways Authority of India  
Project Implementation unit-Bhubaneswar

परियोजना निदेशक/Project Director  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
National Highways Authority of India  
पुणे/पुणे/PIU, Bhubaneswar

29.01.18  
Manager (Elect.)  
K.E.D. No-II  
Marshaghai

2.1	Cross section showing the size of trench for open trenching method. Normal size of trench would be 1.2 mtr deep and width sufficient enough to accommodate the required pipe with the following stipulations	Details shown in the drawing attached	
(i)	Should not be greater than 60cm. 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 lines of the nearest carriageway.	Agreed	
(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.	Case does not arise.	
(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.	Agreed	
2.2	Cross section showing the size of pit and location of cable for HDD method.	Agreed	
2.2.1	Strip plan / Route plan showing water supply pipe line, chainage, width of ROW, distance of proposed pipe line from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Attached	
2.3	Methodology for laying of proposed electric power line.	Attached	
2.3.1	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 trench.	Yes, methodology enclosed in separate sheet	
(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 the trench, bedding shall be to a depth of not less than 30cm. it shall consist of granular material, free of lumps, clods and cobbles and graded to yield as firm surface without sudden change in the bearing value. Unsuitable soil and rock edged should be excavated and replaced by selected material.	Agreed	
(c)	The backfill shall be completed in tow stage (i) side-fill to the level of the top of the pipe and (ii) overfill to the bottom of the road crust.	Agreed	

S. S. Bhuyan  
YP (Tech)

Manager (Tech)

National Highways Authority of India  
Project Implementation Unit - Bhubaneswar


परियोजना निदेशक/Project Director  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
National Highways Authority of India  
का. र. उ. ब. न. श. व. / P. I. U., Bhubaneswar


29-01-18  
Manager (Elect.)  
K.E.D. No-II  
Marshallghai



(d)	The side fill shall consist of granular material laid in 15 cm layers each consolidated by mechanical tamping 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.	Agreed	
(e)	The road crust shall be built to the same strength as the existing crust or either side of the trench. Care shall be taken to avoid the formation of a dip at the trench.	Agreed	
(f)	The excavation shall be protected by flagman, signs and barricades and red light during night hours.	Agreed	
(g)	If required a diversion shall be constructed at the expenses of agency owning the utility line.	Agreed	
2.3.2	Laying of water supply pipe line through CD works and method of laying.		
(a)	On approaches, the power line mains shall be carried along a line as close to the edge of the right of way as possible up to a distance of 30 mtr from the bridge and subject to all other stipulations contained in the Ministry's guidelines issued with letter No. NH-HI/P66/78 dated 19.11.1976	Agreed	
3	Draft License Agreement signed by two witness (Model Format enclosed as per Annexure-II)	Agreed	
4	Performance Bank Guarantee in favour 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 water supply pipe line by proper filling and compaction, cleaning 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.	Agreed	
5	Affidavit/Undertaking from the applicant to be submitted in the non judicial stamp paper in the following format.	Enclosed	
5.1	Not to damage to other utilities, if damaged then to pay the losses either to NHAI or to the concerned agency.	Enclosed	

  
 Manager (Elect.)  
 K.E.D. No-II  
 Barahaghai

  
 Manager (Tech)  
 National Highways Authority of India  
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 परियोजना निदेशक/Project Director  
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
 National Highways Authority of India  
 कार्यालय, भुवनेश्वर/PIU, Bhubaneswar



5.2	Bank Guarantee furnished should be renewed till completion of the work for which proposal has been submitted	Shall be submitted	
5.3	We do undertake to ensure that during laying of water supply pipe line we shall be executing the work conforming to all standard condition of NHAI's guidelines	Enclosed	
5.4	If the Highway Authority considers if necessary in future to remove / shift the utility line for any work of improvement or repairs to the road, it will be carried out as described by the Highway authority at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given.	Enclosed	
5.5	The agency if required has to relocate service road/ approach road/ utilities at their own cost notwithstanding the permission granted within such time as will be stipulated by NHAI for future six laning or any other development	Enclosed	
5.6	The licensee shall be solely responsible / liable for full compensation / indemnification of concerned agency / aggrieved owner for any direct, indirect or consequential damage caused to them/ claims or replacement sought for, at the cost and risk of the licensee. NHAI shall also have a right to make good such damages/recover the claims by way of invoking of Bank Guarantee furnished by the licensee.	Enclosed	
5.7	Traffic movement during laying of electric power line to be managed by the applicant.	Enclosed	
5.8	If any claim is raised by the Concessionaire then the same has to be paid by the applicant.	Enclosed	
5.9	Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the National Highway right of ways.	Enclosed	
5.10	Expenditure, if any incurred by NHAI for repairing and 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.	Enclosed	
5.11	Laying of electric power line will not have any deleterious effects on any of the bridge components and roadway safety for traffic.	Enclosed	
5.12	Permission of laying electric cable line will not be treated as a right of ownership of the portion of the land on which the utility is laid. The property will remain with the Ministry of Road Transport and Highways irrespective of the position of power line or utility line.	Enclosed	
6	Authenticity of the power of attorney of the signatory filling such proposal.	Enclosed	
7	The proposal should be submitted in 3 separate sets of file cover complete in all respect.	3 set (One original two copy submitted)	

  
 Manager (Tech.)  
 R.E.D. No-II  
 Bhubaneswar

  
 Manager (Tech)  
 National Highways Authority of India  
 Project Implementation Unit - Bhubaneswar

  
 Project Director  
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
 National Highways Authority of India  
 प्रकल्प कार्यालय/PIU, Bhubaneswar

7.1	<p>Certificate for confirming of all standard condition issued vide Ministry Circular No.</p> <ol style="list-style-type: none"> <li>1. Ministry Circular No. NH-11(58)/68 dated 31.1.1967</li> <li>2. Ministry Circular No. NH-III/P/66/76 dated 18/19.11.1976</li> <li>3. Ministry Circular No. RW/NH-III/P/66/76 dated 11.05.1982</li> <li>4. Ministry Circular No. RW/NH-11037/1/86-DOI(ii) dated 28.07.1993</li> <li>5. Ministry Circular No. RW/NH-11037/1/86-DOI dated 19.01.1995</li> <li>6. Ministry Circular No. RW/NH-34066/2/95/S&amp;R dated 25.10.1999</li> <li>7. Ministry Circular No. RW/NH-34066/7/2003 S&amp;R(B) dated 17.09.2003</li> </ol>	(Yes/No)	Yes
7.2	<p>Certificate from 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 and traffic safety of the highway nor the likely future improvement such as widening of the carriageway, easing of curve etc."</p> <p>(ii) For 6- laning</p> <p>(a) Where feasible 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 accommodating proposed six-laning."</p>	(Yes/No)	Yes

S.B. Bhuyan  
YP (Tech)

Manager (Tech)  
National Highways Authority of India  
Project Implementation Unit-Bhubaneswar

परियोजना निदेशक/Project Director  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
National Highways Authority of India  
प्र.क. इ. मु. इ. य. व. /PIU, Bhubaneswar

Manager (Elect.)  
No-II  
Bhubaneswar

8	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 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."	Agreed	Yes
9	Who will supervise the work of laying of water Supply pipe line	Assistant Engineer	
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.	Executive Engineer	
11	Who will pay the claims for damages done/disruption in working of concessionaire if asked by the concessionaire.	Executive Engineer	
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 that photocopy of register of records of permissions accorded as maintained by PD then copy be enclosed	Agreed	

  
 Manager (Tech)  
 National Highways Authority of India  
 Project Implementation unit-Bhubaneswar

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

  
 Manager (Elect.)  
 K.E.D. No-II  
 Marshaghai