



# 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 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

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/ 1685 /2023

26.05.2023

To

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

**Sub:** Six laning of Chandikhole- Jagatpur- Bhubaneswar section of NH-5 from Km.414+000 to Km.419+000 and Km.0+000 to Km.62+000 in the State of Odisha- Permission for laying of underground power cable from proposed 132/33 kV Satyanagar GIS S/S & existing 132/33 kV Grid S/S at Mancheswar to Kuakhai river from Km.3+250 to Km.4+780 (Palasuni to Hi-tech Hospital) and crossing at Km.3+250 (Palasuni Chowk) - Reg

**Ref:** PD, PIU- Bhubaneswar letter No. 647 dated 24.04.2023

Sir,

Please find enclosed herewith a proposal of M/s TPCODL, Bhubaneswar for laying of underground power cables from proposed 132/33 kV Satyanagar GIS S/S & existing 132/33 kV Grid S/S at Mancheswar to Kuakhai river from Km.3+250 to Km.4+780 (Palasuni to Hi-tech Hospital) and crossing at Km.3+250 (Palasuni Chowk). The details are as under:

Sl. No.	Description	Chainage		Location
		From	To	
1.	Along	3+250	4+780	Palasuni to Hi-tech Hospital
2.	Crossing	3+250		Palasuni

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 the "Regional Officer, NHAI, Regional Office, Odisha, Bhubaneswar.

Yours faithfully,

(Sunil Kumar)  
General Manager (Tech)



सत्यमेव जयते

# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

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NHAI/13011/54/RO/OD/ 1684 /2023

26.05.2023

### INVITATION OF PUBLIC COMMENTS

**Sub:** Six laning of Chandikhole- Jagatpur- Bhubaneswar section of NH-5 from Km.414+000 to Km.419+000 and Km.0+000 to Km.62+000 in the State of Odisha- Permission for laying of underground power cable from proposed 132/33 kV Satyanagar GIS S/S & existing 132/33 kV Grid S/S at Mancheswar to Kuakhai river from Km.3+250 to Km.4+780 (Palasuni to Hi-tech Hospital) and crossing at Km.3+250 (Palasuni Chowk) - Reg

M/s TPCODI, Bhubaneswar has submitted a proposal for laying of underground power cables from proposed 132/33 kV Satyanagar GIS S/S & existing 132/33 kV Grid S/S at Mancheswar to Kuakhai river from Km.3+250 to Km.4+780 (Palasuni to Hi-tech Hospital) and crossing at Km.3+250 (Palasuni Chowk). The details are as under:

Sl. No.	Description	Chainage		Location
		From	To	
1.	Along	3+250	4+780	Palasuni to Hi-tech Hospital
2.	Crossing	3+250		Palasuni

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:

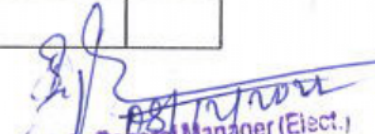
The Regional Officer,  
National Highways Authority of India,  
Regional Office, Odisha  
301-A, 3rd Floor, Pal Heights,  
J/7, Jayadev Vihar, Bhubaneswar 751013, Odisha  
e-mail : [roodisha@nhai.org](mailto:roodisha@nhai.org)

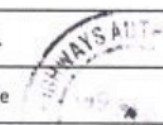
This is issued with the approval of the "Regional Officer, NHAI, Regional Office, Odisha, Bhubaneswar".

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

**Proposal for laying of underground power cables from proposed 132/33 KV Mancheswar S/Stn. To Hitech Hospital chawak**

Sl No.	Items	Information/Status	Remarks
1	General Information for Laying of 132kV Underground Cable - through HDD method (Area required - 800 mm) from km 3.250 (Palasuni chowk) to km 4.780 (Hi-tech hospital chowk) and crossing at Palasuni square at km 3.250 on NH-16		
1.1	Name and address of the applicant/agency	Dy. General Manager (EHT) Construction Division, Odisha Power Transmission Corporation Limited, Bhubaneswar, Odisha	
1.2	National Highway Number	NH -16	
1.3	State	Odisha	
1.4	Location	Laying of 132kV Underground Cable - through HDD method (Area required - 800 mm) from km 3.250 (Palasuni chowk) to km 4.780 (Hi-tech hospital chowk) and crossing at Palasuni square at km 3.250 on NH-16	
1.5	(Chainage in Km.)	from km 3.250 (Palasuni chowk) to km 4.780 (Hi-tech hospital chowk) and crossing at Palasuni square at km 3.250 on NH-16 (RHS)	
1.6	Length in Km	1.53 km (RHS)	
1.7	Width of available R/w	60 MTR	
	(a) Left side from centre line towards increasing chainage/Km. direction	30 mtr	
	(b) Right side from centre line towards increasing chainage/Km. direction	30 mtr	
1.8	Proposal to lay Underground cable		
	(a) Left side from centre line towards increasing chainage/Km. direction		
	(b) Right side from centre line towards increasing chainage/Km. direction		
1.9	Proposal to acquire land	NA	
	(a) Left side from centre line		
	(b) Right side from centre line		
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	Within ROW	
1.11	Details of already laid services, if any, along the proposed route	NA	
1.12	Number of lanes (2/4/6/8 Lanes) existing	4	
1.13	Proposed number of Lanes (2 lane with paved shoulders/4/6/8 lanes)	NA	
1.14	Service road existing or not	Service road existing	
	If yes then which side		
	(a) Left side from centre line.		
	(b) Right side from centre line	Right side	

  
 Deputy General Manager (Elect.)  
 E.H.T. (C) Division  
 OPTCL, Bhubaneswar

  
 14/2/23

	Proposed service road	Yes	
1.15	(a) Left side from centre line.		
	(b) Right side from centre line	Yes	
1.16	Whether proposal to lay electricity underground cable line is after the service road or between the service road and main carriageway	Service road and out side of service road	
1.17	The permission for laying of underground cable shall be considered for approval/rejection based on the Ministry Circulars mentioned as above.	NA	
(a)	Carrying of sewage/gas pipeline on High way bridges shall not permitted as fumes/gases pipes can accelerate the process of corrosion or may cause explosions, thus, being much more injurious than leakage of Water.	Agreed	
(b)	Carrying of electricity underground cable lines on bridges shall also be discouraged. However, if the electric supply authorities seem to have no other viable alternative and approach the Highway Authority Well In time before the design on the bridge is finalized. They may be permitted to carry the pipe line 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.	NA	
(c)	Cost of required extension of the, substructure as well as that of the supporting shall be borne by the agency in charge of the utilities.	Agreed	
(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.	Agreed	
1.18	If crossing of the road involved. If yes, it shall be either encased in pipes OT through structure of conduits specially built for that purpose at the expenses of the agency owning the line.	By HDD	
(a)	Existing drainage structures shall not be allowed to carry the lines.	Agreed	
(b)	Is it on a line normal to NH		
©	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?	Agreed	
(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.	Agreed By HDPE pipe	

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E.H.T. (C) Division  
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(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	
(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 inverts.	Agreed	
(h)	Crossing shall be by boring method (HDD) specially Where the existing road pavement is of cement concrete or dense bituminous concrete 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 the formation of a waterway along it.	Agreed	
2	Document/Drawings enclosed with proposal.	Enclosed	
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).	Agreed	
(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.	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.	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 electricity UG Cable line, chainage, width of ROW, distance of proposed pipe line from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Attached	
2.4	Methodology for laying of proposed electricity UG Cable line.	Attached	
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.	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	

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Stamp: 14/2/23

*[Signature]*

*[Signature]*  
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E.H.T. (C) Division  
OPTCL, Bhubaneswar

(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 a 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 two stages (i) side fill to the level of the top of the pipe and (ii) over fill to the bottom of the road crust.	Agreed	
(d)	The side till 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. Over-fill 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 on 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 lights during night hours.	Agreed	
(g)	If required, diversion shall be constructed at the expenses of agency owning the utility line.	Agreed	
2.4.2	Horizontal Directional Drilling (HDD) Method	Yes	
2.4.3	Laying of electricity UG cable line through CD works and method of laying.	NA	
(4)	On approaches, the electric supply mains/cables shall be carried along a line as close to the edge of the right of way as possible up to distance of 50 m 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 Witness	Enclosed	
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 cables/ducts 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	
4.1	Performance BG as per above is to be obtained.	Agreed	
4.2	Confirmation of BG has been obtained as per NHAI guidelines	Agreed	
5	Affidavit/Undertaking from the applicant	Agreed	
5.1	Not to damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency.	Agreed or enclosed 5.1 to 5.12	
5.2	Renewal of Bank Guarantee.	Agreed	
5.3	Confirming all standard condition of NHAI's guidelines.	Agreed	
	Shifting of electricity overhead lines and when required by NHAI at their own cost.	Agreed	

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14/2/23

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Attended

*Handwritten signature*  
24/12/2021  
Deputy General Manager (Elect.)  
E.H.T. (C) Division  
OPTCL, Bangalore

	Shifting due to 6 laning/widening of NH.	Agreed	
	Indemnity against all damages and claims clause (xxiv).	Agreed	
5.4	Traffic movement during laying of UG cable to be managed by the applicant.	NA	
5.5	Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the showing UG cable line located in the National Highway right of ways.	NA	
5.6	Expenditure, if any incurred by NHAI for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the UG cable line will be borne by the agency owning the line.	NA	
5.7	If the NHAI considers it necessary in future to move the utility line for any work of improvement or repairs to the road, it shall 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.	Agreed	
5.8	Certificate from the applicant in the following format	Agreed	
5.9	(i) Laying of UG Cable line will not have any deleterious effects on any of the bridge components and roadway safety for traffic.		
5.10	For 6-laning " We do undertake that we will relocate service roads/approach road/utilities at our own cost not with standing the permission granted within such time as will be stipulated by NHAI for future six laning or any other development?	Agreed	
5.11	Who will sign the agreement on behalf of electricity overhead line agency	Mr. Sachidananda Panda Dy. General Manager (EHT) Construction Division, OPTCL	
5.12	Certificate from the Project Director		
6	Certificate for confirming of all standard condition issued vide ministry circular No.		
7	Ministry Circular No. NH-41(58)/68 dated 31.01.1969		
7.1	Ministry Circular No. NH-III/P/66/76 dated 18/19.11.1976		
	Ministry Circular No. RW/NH-III/P/66/76 dated 11.05.1982		
	Ministry Circular No. RW/NH-11037/1/86-DOI (ii) dated 28.07.1993		
	Ministry Circular No. RW/NH-11037/1/86-DOI (ii) dated 19.01.1995		
	Ministry Circular No. RW/NH-11037/1/86-DOI (ii) dated 19.01.1995		
	Ministry Circular No. RW/NH-34066/2/95/S&R dated 25.10.1999		
	Ministry Circular No. RW/NH-34066/7/2003 S&R(B) dated 17.09.2003		

*[Signature]*

*[Signature]*  
14/12/23  
SIVAR

*[Signature]*  
14/12/23

*[Signature]*  
18/12/2024  
Deputy General Manager (Elect.)  
E.H.T. (C) Division  
OPTCL, Bhubaneswar

परियोजना निदेशक/Project Director -  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण -  
National Highways Authority of India  
भुवनेश्वर/PH: Bhubaneswar