



# 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)

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NHAI/13011/54/RO/OD/ 163 /2024

17.01.2025

To

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

Sub: Chandikhole Paradip Section of NH-53 Package - IV: Permission for laying of 33 KV & 11 KV UG Cable and over-head lines along and across NH from Belarnuagan to Luna substation - reg.

Ref: PD, PIU- Chandikhole letter No.07 dated 03.01.2025

Sir,

Please find enclosed herewith a proposal of M/s TPCODL for laying of 33 KV & 11 KV UG Cable and over-head lines along and across NH from Belarnuagan to Luna substation in the state of Odisha. The details are as under:

Sl. No	Description	Chainage	HDPE / DI Pipe Dia in MM	Remarks
1.	Along NH	Km. 52.060 to 53.020 (RHS)	4 nos HDPE Pipe of 110mm Dia.	33KV UG through HDD
2		Km. 53.020 to 56.300 (RHS)	-	33KV Overhead line
3		Km. 56.300 to 56.500 (RHS)	4 nos HDPE Pipe of 110mm Dia.	33KV UG through HDD
4		Km. 56.500 to 61.340 (RHS)	-	33KV Overhead line
5		Km. 60.740 to 61.340 (RHS)	-	11KV Overhead line
6		Km. 61.700 to 63.900 (LHS)	-	11 KV Overhead line
7	Crossing NH	Between Km. 61.310 to Km. 61.340 (1 no 33 KV & 1 no 11 KV crossing)	4 nos HDPE Pipe of 110mm Dia. for 33 KV & 2 nos HDPE Pipe of 160mm Dia.	33 KV & 11 KV UG through HDD
8		Between Km. 63.880 to Km. 63.900	2 nos HDPE Pipe of 160mm Dia.	11 KV UG through HDD

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 Regional Officer, Odisha.

Yours Sincerely,

(Amit Kumar Gupta)  
Dy. General Manager (Tech)



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

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NHAI/13011/54/RO/OD/ 163 /2024

17.01.2025

### INVITATION OF PUBLIC COMMENTS

**Sub: Chandikhole Paradip Section of NH-53 Package - IV: Permission for laying of 33 KV & 11 KV UG Cable and over-head lines along and across NH from Belarnuagan to Luna substation - reg.**

TPCODL has submitted a proposal for laying of 33 KV & 11 KV UG Cable and over-head lines along and across NH from Belarnuagan to Luna substation in the state of Odisha. The details are as under:

Sl. No	Description	Chainage	HDPE / DI Pipe Dia in MM	Remarks
1.	Along NH	Km. 52.060 to 53.020 (RHS)	4 nos HDPE Pipe of 110mm Dia.	33KV UG through HDD
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4		Km. 56.500 to 61.340 (RHS)	-	33KV Overhead line
5		Km. 60.740 to 61.340 (RHS)	-	11KV Overhead line
6		Km. 61.700 to 63.900 (LHS)	-	11 KV Overhead line
7	Crossing NH	Between Km. 61.310 to 61.340 (1 no 33 KV & 1 no 11 KV crossing)	4 nos HDPE Pipe of 110mm Dia. for 33 KV & 2 nos HDPE Pipe of 160mm Dia.	33 KV & 11 KV UG through HDD
8		Between Km. 63.880 to 63.900	2 nos HDPE Pipe of 160mm Dia.	11 KV UG through HDD

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 RO, Odisha.

Dy. 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 33&11KV UG CABLE AT TIKARPANGA TO LUNA SUBSTATION ALONG WITH TWO NHAI CROSSINGS AT NEAR BELARNUAGAN & TIKARPANGA**

SL NO	ITEMS	INFORMATION/STATUS	REMARKS
1	General Information for Laying Overhead Transmission line		
1.1	Name & address of the applicant/agency	TPCOOL PROJECTS OFFICE, IDCO TOWER,9TH FLOOR,BHUBANESWAR	
1.2	National Highway Number	NH 5A	
1.3	State	ODISHA	
1.4	Location	TIKARPANGA TO LUNA SUBSTATION ALONG WITH TWO NHAI CROSSING AT NEAR TIKARPANGA & BELARNUAGAN	
1.5	(Chainage in KM)	63/900 TO 52/060	
1.6	Length in Km	13.053	
1.7	Width of available ROW	70 mtr Avg	
	a) Left side from centre line towards increasing Chainage/KM direction		
	b) Right side from centre line towards increasing chainage /km direction		
1.8	Proposal for Lay Underground electrical lines	YES	
1.9	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 aquire land	NA	
1.10	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	IOCL water Pipe Line.	
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)	8	
1.14	service road existing or not	EXISTING	
	If yes then which side		
	a) Left side from centre line	Yes	
	b)Right side from Central line	Yes	
1.15	proposed service road	NA	
	a) Left side from centre line		
	b)Right side from Central line		
1.16	Whether proposal to lay electricity UG line is after the service road or between the service road and main carriageway	After	
1.17	The permission for laying of overhead transmission line shall be considered for approval/rejection based on the Ministry circulars mentioned as above	YES	



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**By. Manager (Tech)**  
 N.H.A.I, PIU  
 Chandikhole

**PROJECT DIRECTOR**  
 NATIONAL HIGHWAYS AUTHORITY OF INDIA  
 PIU-CHANDIKHOLE

**BASANT TARIA**  
 Project Head  
 Deep Circle  
 AL, Kendrapara

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a)	Carrying of sewage /gas pipeline on the Highway 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 overhead lines on bridges shall also be discouraged. However , If 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 bridges 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 Strature of Conduites specially built for that Purpose at the expences of the agency owning the line	AGREED	
a)	Existing Drainage structure shall not be allowed to carry the lines	AGREED	
b)	Is it on a line or normal to NH	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?	AGREED	
d)	The casing pipe (or conduit pipe in the case of the electric cable)carrying the utility lines shall be of steel, cast iron, or reinforced cement concrete and have adequate strength and be large enough to permit ready withdrawl of the carrier pipe /cable.	AGREED	
e)	Ends If 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 the slope in the fills.	AGREED	
f			
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 meter below the drain inverts.	AGREED	
h)	Crossing shall be bu boring method (HDD) spacially where the existing road pavements 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 the trench for open trenching method. (Is it normal size of 1.2m deepx 0.3 meter wide)	AGREED	
i)	Should not be greater than 60 cm. 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 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 the double cutting Nor shall thses 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 the pit and location of the cable for the HDD method.	160/110MM HDPE PIPE P8	
2.3	Strip plan/ Route plan showing electricity overhead line, chainage, width of the ROW, distance of the proposed pipe line from the edge of the ROW, Important mile stone, intersections, cross drainage works etc.	NA	
2.4	Methodology for laying of the proposed electricity overhead line.	NA	
2.4.1	Open trenching method (May be allowed in the Utility corridor only where pavements is neither cement concrete nor dense bituminous concrete type). If yes, Methodology of the refilling of the trench.		
a)	The trench width should be at least 30 cm, but not more than 60 cm wider than the pouter diameter of the pipe.	AGREED	
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 cabbles and graded to yield a firm surface without sudden change in the bearing valve. 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	

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*M/K/18*  
 15/07/2024  
**BASANTARIA**  
 Project Head  
 Paradeep Circle  
 TPCODL, Kendrapara

**PROJECT DIRECTOR,**  
 NATIONAL HIGHWAYS AUTHORITY OF INDIA  
 PIU, CHANDIKHOLE



**Dy. Manager (Tech)**  
 N.H.A.I, PIU  
 Chandikhole

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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 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 light during night hour	AGREED	
g)	If required, adiversion shall be constructed at the expenses of agency owning the utility line.	AGREED	
2.4.2	Horizontal directional Drilling (HDD) method	AGREED	
2.4.3	Laying of electricity overhead line through CD works and method of laying.	NA	
a)	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 30m 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	
3:00	Draft license Agreement signed by two witness.	ENCLOSED	
4	Performance Bank Gaurantee in the Favor of NHAI has to be obtained@50/- per running meter (parallel to NH) and Rs 100000/- per crossing of NH, for a period of one year initially (extendable if required till satisfactory completeon work )as a security for ensuring/making good the excavated trench for laying the cables duct by proper filling and compaction , cleaning debris/loose earth productued due to execution of trenching at least 50 m 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	Confirming of BG has been obtained as per NHAI guidelines	AGREED	
5	Affidavit/Undertaking from the applicant	<b>ATTACHED</b>	
5.1	Not to damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency	AGREED	
5.2	Renewal of Bank Gaurantee		
5.3	Confirming all the standards condition of NHAI's guidelines		
	Shifting of electricity overhead line as and when required by NHAI at their own cost	AGREED	
	shifting due to 6 laning/widening of NH	AGREED	
	Indemnity against all damages and claims clause (xiv)	AGREED	
5.4	Traffic movement during laying of electricity overhead line to be managed by the applicant	AGREED	
5.5	Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the showing electricity overhead line located in the National Highway right of ways.		
5.6	Expenditure , if any incurred by NHAI for repairing any damage caused to the National Highway by laying, maintenance or shifting of the electricity overhead line will be borne by the agency owing the line.		
5.7	If the NHAI considers it necessary in the 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 owing the utility line within a reasonable ttime (nit exceeding 60 days) of the intimation given.	AGREED	
5.8	Certificate from the applicant in the following format		
5.9	(i) Laying of the electricity overhead line will not have any deleterious effects on any of the bridge components and roadway safety for traffic.	AGREED	
5.1	For 6- lanning "We do undertake that we will relocate service roads/ approach road/utilites 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 the electricity overhead line agency	Mr.BASNAT TARIA, Head PARADEEP CIRCLE TPCODL	
5.12	Certificate from the Project director	AGREED	



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 TPCODL, Kendrapara

**PROJECT DIRECTOR,**  
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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	Not Required.	
	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-34066/2/95/S&R dated 25.10.1999		
	Ministry circular No. RW/NH-34066/7/2003 S&R(B) dated 17.09.2003		
	Ministry circular No. RW/NH-33044/29/2015 S&R(R) dated 22.11.2016		
7.2	Certificate from PD in the following format (i) " It is certified that any other location of the electricity overhead line would be extremely difficult and unreasonable costly and the installation of electricity 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 6-laning		
	(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."		
	(b) In case feasibility report is not available, " I do certify that sufficient ROW is available at site for accomodating 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 cable /duct has also been granted as right of the 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 be honour the same".		
9	Who will supervise the work of laying of the electricity overhead line		
10	Who will ensure that the defects in road portion after laying of electricity overhead line are corrected and if not corrected then what action will be taken		
11	Who will pay the claims for damage done /disruption in working of concessionaire if asked by the concessionaire.		
12	A certificate from PD that he will enter the proposed permission in the register of records of the permission in the prescribed proforma (copy enclosed)		
13	If any pervious approval is accorded for laying of underground electricity overhead line that photocopy of the register of records of permissions accorded as maintained by PD then copy be enclosed		

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 NATIONAL HIGHWAYS AUTHORITY OF INDIA  
 PIU-CHANDIKHOLE



सत्यमेव जयते

# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

## National Highways Authority of India

(Ministry of Road Transport and Highways, Government of India)

परियोजना कार्यान्वयन इकाई / Project Implementation Unit

एन.एच.ए.आई. कॉम्प्लेक्स, नेउलपुर, चंडीखोल, जाजपुर - ७५५०२४ (ओडिशा)

NHAI Complex, Neulpur, Chandikhole, Jajpur-755024 (Odisha)

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NHAI/13011/13/RoW/2025/PIU/CDL/ ०४

03 Jan, 2025

To,

The Regional Officer,  
National Highways Authority of India,  
301-A, 3<sup>rd</sup> Floor, Pal Heights,  
Plot No. J/7, Jayadev vihar,  
Bhubaneswar-751013.

**Sub:** Regarding approval of Proposal for 11Kv Under Ground line at Tikarpanga & 33Kv Under Ground line at Belarnuagan to Luna Substation.- Reg.

- Ref.: (1) TPCODL letter No. TPCODL/ODSSP/PROJECTS/24-25/006 dated 26.09.2024 & 007 dated 29.11.2024
- (2) This office letter No. 1565 dated 07.10.2024
- (3) Independent Engineer letter No. 369 dated 07.10.2024
- (4) This office letter No. 1719 dated 25.10.2024
- (5) RO-Odisha letter No. 2321 dated 25.11.2024
- (6) This office letter No. 1951 dated 04.12.2024
- (7) Independent Engineer letter No. 518 dated 27.12.2024

Sir,

In inviting reference to the subject cited above, this office vide letter under ref. (4) recommended the proposal for approval of 11Kv Under Ground line at Tikarpanga & 33Kv Under Ground line at Belarnuagan to Luna Substation received from Divisional Manager, KED-II, TPCODL. Accordingly, RO-Odisha vide letter cited under reference (5) raised some observations and returned the proposal for compliance. Further, this office sought for compliance vide letter under reference (6) from Independent Engineer.

In this connection, the Independent Engineer vide letter cited under reference (7) submitted the following compliance:

Sl No	Circle	Division Name	Proposal Details	33KV & 11KV Feeder Length (KM)	33KV & 11KV UG & OH Feeder (NH 5A Chainage No.)
1	PARADEEP	MARSHAGHAI	33 KV UG Cable (along NH)	0.96	Chainage No. (52.06 to 53.02) (RHS)
2	PARADEEP	MARSHAGHAI	33 KV OH (along NH)	3.28	Chainage No. (53.020 to 56.300) (RHS)
3	PARADEEP	MARSHAGHAI	33 KV UG Cable (along NH)	0.2	Chainage No. (56.300 to

01/30/2025 10:00:00 AM

					56.500) (RHS)
4	PARADEEP	MARSHAGHAI	33 KV OH (along NH)	4.84	Chainage No. (56.500 to 61.340) (RHS)
5	PARADEEP	MARSHAGHAI	11 KV OH (along NH)	0.6	Chainage No. (60.740 to 61.340) (RHS)
6	PARADEEP	MARSHAGHAI	33 KV & 11 KV UG Cable Belarnuagaon (across NH)	0.535	Chainage No. (61.310 to 61.340)
7	PARADEEP	MARSHAGHAI	11 KV UG Line Tikarpanga (across NH)	0.140	Chainage No. (63.880 to 63.900)
8	PARADEEP	MARSHAGHAI	11 KV OH (along NH)	2.2	Chainage No. (61.700 to 63.900) (LHS)

1. The Agency has complied the observations of the Authority and mentioned the locations for Underground cable crossing / along, overhead line along the NH-53 in a tabular form as above.
2. ROW details have been incorporated in the drawing.
3. Drawing for showing details of the installation of HDPE casing pipe for crossing the road is submitted.
4. General information for Laying / crossing for underground line and overhead line has been mentioned properly.
5. The laying/crossing of underground cable and overhead line along the extreme edge of the ROW will not create any harm to the construction of National Highway.
6. Hence, the total length for 33KV and 11KV underground cable and overhead line is 12.755 KM hereby recommended for final processing of the proposal instead of 1.1 KM requested in before proposal..

In view of above, as per the compliance submitted by Independent Engineer the proposal for 11Kv Under Ground line at Tikarpanga & 33Kv Under Ground line at Belarnuagan to Luna Substation is hereby forwarded herewith for approval of Competent Authority.

Yours faithfully

Encl. As Above.

(J.P. Verma)  
Project Director