



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

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/ 1857/2023

22.06.2023

To

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

**Sub:** Four laning of Sambalpur Bargarh – Orissa / Chhattisgarh Border Section of NH-06 from Km.0.000 to 88.000 in the State of Orissa to be executed as BOT (Toll) on DBFOT pattern under NHDP Phase-III – Permission for laying of 33 kV underground XLPE power cable along NH-53 from Ainthapalli chowk i.e. Km.567+500 to Remand Chowk i.e. 4.6 Km. (LHS) and three numbers of crossing at Km.4+600 (Near Remed), Km.567+500 (Near Ainthapali Chowk) & Km.5+200 (Near Railway LC) - Reg

Sir,

Please find enclosed herewith a proposal of TP Western Odisha Distribution Limited for granting permission for laying of 33 kV underground power cable along NH 53 from Ainthapali Chowk i.e. 567+500 to Remed Chowk i.e. Km.4+600 (LHS) and three numbers of crossing at Km.4+600 (Near Remed), Km.567+500 (Near Ainthapali Chowk) & Km 5+200 (Near Railway LC) The details are as under:

Sl No.	Description	Chainage	NH No.	Distance (in Km.)	Dia of Pipe Line (SQ. MM) DI-K7/9	Dia of MS Casing (in MM)	Location	RHS/LHS
1.	Along the road	Km.567+500 to Km.4+600	06	4.6	400	160	From Ainthapali to Remed	LHS
2.	Crossing-1	Km. 567+500		-			Ainthapali Chowk	-
3.	Crossing-2	Km.4+600		-			Remed Chowk	
4.	Crossing-3	Km.5+200		-			Railway LC	-

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*  
22.06.2023

(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

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NHAI/13011/54/RO/ODI/1856/2023

22.06.2023

### INVITATION OF PUBLIC COMMENTS

Sub: Four laning of Sambalpur Bargarh – Orissa / Chhattisgarh Border Section of NH-06 from Km.0.000 to 88.000 in the State of Orissa to be executed as BOT (Toll) on DBFOT pattern under NHDP Phase-III – Permission for laying of 33 kV underground XLPE power cable along NH-53 from Ainthapalli chowk i.e. Km.567+500 to Remed Chowk i.e. 4.6 Km. (LHS) and three numbers of crossing at Km.4+600 (Near Remed), Km.567+500 (Near Ainthapali Chowk) & Km.5+200 (Near Railway LC) - Reg

TP Western Odisha Distribution Limited has submitted a proposal for granting permission for laying of 33 kV underground power cable along NH-53 from Ainthapali Chowk i.e. 567+500 to Remed Chowk i.e. Km.4+600 (LHS) and three numbers of crossing at Km.4+600 (Near Remed), Km.567+500 (Near Ainthapali Chowk) & Km.5+200 (Near Railway LC). The details are as under:

Sl No.	Description	Chainage	NH No.	Distance (in Km.)	Dia of Pipe Line (SQ. MM) DI-K7/9	Dia of MS Casing (in MM)	Location	RHS/LHS
1.	Along the road	Km.567+500 to Km.4+600	06	4.6	400	180	From Ainthapali to Remed	LHS
2.	Crossing 1	Km. 567+500		-			Ainthapali Chowk	-
3.	Crossing-2	Km.4+600		-			Remed Chowk	-
4.	Crossing-3	Km.5+200		-			Railway LC	-

3 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).

4. 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. S.*  
22.06.23

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

Guidelines for Project Director for processing the proposal for laying of 33 KV Underground Power Cable in the land along National Highway vested with NHAI


### Relevant Circulars

- 1) Ministry Circular No. NH-41 (58)68 dated 31.01.1969
- 2) Ministry Circular No. NH-III/P/66/76 dated 18/19.11.19776
- 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 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-34066/7/2003 S&R (B) dated 17.9.2003

Check list for getting approval for laying of 33 KV Underground Network on NH land

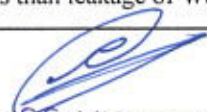
### NH-53


Sl No.	Item	Information / Status	Remarks
1	General information		
1.1	Name and Address of the Applicant	Executive Engineer Sambalpur Electrical Division, Sambalpur, In front of Vikash Petrol Pump(IOCL), Sambalpur, Odisha-768004.	
1.2	National Highway Number	NH-53	
1.3	State	Odisha	
1.4	Location	From Ainthapali Chowk to Remed Chowk	
1.5	(Chainage in Km)	1 ) Along the Chainage 567.500 km to 4.600 km LHS 2) Across the chainage 567.500km & 4.600 LHS to RHS & Ch. 5.200 RHS to LHS(Road Crossing)	
1.6	Length in Meters	Along : 4.85km Across: 140 Mtrs	

  
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परियोजना निर्देशक/Project Director  
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1.7	Width of available ROW		
	(a) left side from center line towards increasing chainage /km direction	45 Mtr	
	(b) Right side center from line towards increasing chainage / Km direction	25 Mtr	
1.8	Proposal to lay power cable line	Along & Across	
	(a) left side from center line towards increasing chainage /km direction	44 Mtr	
	(b) Right side from center from line towards increasing chainage / Km direction	NA	
1.9	Proposal to accuire land	N.A	
	(a) Left side from center line		
	(b) Right side from center line		
1.10	Whether proposal is in the same side where land is not to be acquired. If not then where to lay the power cable line.	N.A	
1.11	Details of already laid services, if any, along the proposed route	Yes. (RCOM OFC)	
1.12	Number of lanes (2/4/6/8 lane) existing	4	
1.13	Purposed number of lanes (2 lanes with paved shoulders/4/6/8 lanes)	N.A	
1.14	Service road existing or not	Yes	
	If yes then which side		
	(a) Left side from center line	Yes	
	(b) Right side from center line	Yes	
1.15	Proposed Service road		
	(a) Left side from center line	N.A	
	(b) Right side from center line	Yes	
1.16	Whether proposal to lay power cable is after service road or between the service road and main carriageway	NA	
1.17	The permission for laying of power cable shall be considered for approval / rejection based on the Ministry Circulars as above.		
	(a) Carrying of sewage/gas pipelines on highway bridges shall not be permitted as Fumes/gases pipes can accelarate the process of corrosion or may cause explosions, thus, being much more injurious than leakage of Water.	Agreed	

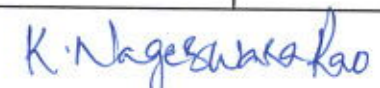
  
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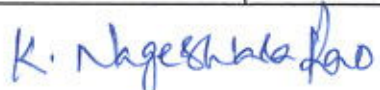
	(b) Carrying of power lines on bridges shall also be discouraged. However, if the power supply authorities seem to have no other viable alternative and approach the highway authority well in time before the design of the bridge is finalized, they may be permitted to carry the pipeline on independent superstructure, support 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	
	(c) Cost of required extension of the substructure as well as that of the supporting superstructure shall be borne by the agency-in-charge of the utilities.	Agreed	
	(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.	Agreed	
1.18	If crossings of the 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.		
	(a) Existing drainage structures shall not be allowed to carry the lines.	Agreed	
	(b) Is it on a line normal to NH	Yes	
	(C) Crossing shall not be too near the existing structure 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	
	(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 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	

  
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2	Document / Drawings enclosed with the proposal	Yes	
2.1	Cross section showing the size of trench for open trenching method (is it normal size of 1.2m deep x 0.3 m wide)	Yes	
	(i) should not be greater than 60 Cm wider than the outer diameter of the pipe	Yes	
	(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	Yes	
	(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	Yes	
	(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	
2.2	Cross section showing the size of pit and location of cable for HDD method	Yes	
2.3	Strip plan /route plan showing power cable line chainage, width of ROW, distance of proposed, cable from the edge of ROW, important mile stone, intersection, cross drainage works etc.	Yes	
2.4	Methodology for laying of showing power cable 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	YES /through bricks boxing & sand filling	
	(a) The trench width should be at least 30 cm, but not more than 60 cm wider than the outer diameter of the pipe.	Yes	
	(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.	Yes	
	(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.	Yes	
	(d) The sidefill shall consist of granular material laid in 15 cm 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.	Yes	

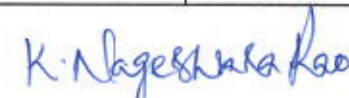
  
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	(e) The road crust shall be built to the same strength as the existing crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench.	Yes	
	(f) The excavation shall be protected by flagman, sign and barricades, and red lights during night hours.	Yes	
	(g) If required, a diversion shall be constructed at the expense of agency owning the utility line.	Yes	
2.4.2	Horizontal Directional Drilling (HDD) Method	OPEN TRENCH & crossing line through HDD	
2.4.3	Laying of power cable Line through CD works and method of laying	No	
	(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 30 m from the bridge and subject to all other stipulations contained in this Ministry's guideline issued with letter No. NH-HI/P/66/76 dated 19.11.1976.		
3	Draft license Agreement signed by two witnesses.	Yes	
4.0	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 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.	Yes	At the time of Agreement TPWODL will be submit
4.1	Performance BG as per above is to be obtained.	BG will be submitted as intimated by NHAI	
4.2	Conformation of BG has been obtained as per NHAI guidelines		
5	Affidavit / Undertaking from the Applicant for	Yes	
5.1	Not to damage to other utility, if damaged then to pay losses either to NHAI or to the concerned agency	Yes	
5.2	Renewal of Bank Guarantee	Yes	
5.3	Conforming all standard condition of NHAI's guideline	Yes	
5.4	Shifting of Power cable Line as and when required by NHAI at their own cost.	Yes	
5.5	Shifting due to widening/widening of NH	Yes	
5.6	Indemnity against all damages and claims clause (xxiv)	Yes	
5.7	Traffic movement during laying of power cable line to be managed by the applicant	Yes	
5.8	If any claims is raised by the Concessionaire then the same has to be paid by the applicant	Yes	

  
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5.9	Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alteration to the showing power cable line located in the National highway right-of-ways.	Yes	
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 power cable line will be borne by the agency owning the line.	Yes	
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.	Yes	
5.12	Certificate from the applicant in the following format (i) Laying of power cable line will not have any deleterious effect on any of the bridge components and roadway safety for traffic. (ii) for 6-lanning "We do undertaking that, I will relocate service road/approach road/utilities at my own cost not withstanding the permission granted within such time as will be stipulated by NHAI" for future six-lanning or any other development"	Yes	
6	Who will sign the agreement on behalf of power cable line agency.	The Executive Engineer, SED, Sambalpur.	
7	Certificate from the Project Director		
7.1	Certificate for conforming of all standard condition issued vide Ministry Circular No. Ministry Circular No. NH-41 (38) 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-11037/1/86/1(X)I dated 19.1.1995, Ministry Circular No. RW/NH-34066/2/95/ S&R dated 25.10.1999 and Ministry Circular No. RW/NH-34066/1/2003 S&R (B) dated 17.9.2003	(Yes/No)	
7.2	Certificate from PD in the following format (i) "It is certified that any other location of the power cable line would be extremely difficult and unreasonable costly and the installation of power cable 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 curve etc". (ii) for 6-lanning (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".	(Yes/No)	

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K. Nagesh Babu Rao  
परियोजना निर्देशक/Project Director  
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8	If NH Section proposed to be taken up by NHAI on BOT basis- a clause 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 thereof, the licensee shall honour the same".		
9	Who will supervise the work of laying of 33 kv Power Cable	TPWODL/ NHAI	
10	Who will ensure that the defects in road portion after laying of POWER CABLE are corrected and if not corrected then what action will be taken.	TPWODL / NHAI, as per condition in the agreement	
11	Who will pay the claims for damages done / disruption in working of Concessionaire if asked by the Concessionaire	TPWODL	
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 previous approval is accorded for laying of underground power cable line then photocopy of register of records of the permission accorded as maintained by PD then copy be enclosed.		

  
 प्रबंधक (तकनिकी)/Manager (Tech.)  
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 Executive Engineer  
 SED Sambalpur, TPWODL  
 Executive Engineer  
 TPWODL  
 SED, Sambalpur  
  
 परियोजना निर्देशक/Project Director  
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