



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
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NHAI/13011/54/RO/OD/ 1613 /2023

18.05.2023

To

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

Sub: Rehabilitation and Upgradation of Four laning of Binjabahal – Telebani Section, Km.414.000 to Km.491.710 (Design Chainage Km.414.982 to Km.493.300) of NH-6 (New NH-49) in the State of Odisha under NHDP-IV on Hybrid Annuity Mode – **NOC proposal for ROW permission for 33 kV overhead electrical line across NH-49 near Kalla power station under Barkote Block - Reg**

Ref: PD, PIU- Rourkela letter No. 754 dated 18.05.2023

Sir,

Please find enclosed herewith a proposal of Executive Engineer, RWS&S Division, Deogarh for ROW permission for 33 kV overhead electrical line across NH-49 near Kalla power station under Barkote Block in Deogarh District. The details are as under:

Sl. No.	Description	Chainage	Remark
1.	Crossing	At Km.439+800	Crossing of 33 kV overhead electrical line on NH-49

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, Bhubaneswa.

Yours faithfully,

18.05.2023
(Abinash Behera)
Dy. Manager (Tech)



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
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NHAI/13011/54/RO/OD/ 1612 /2023

18.05.2023

INVITATION OF PUBLIC COMMENTS

Sub: Rehabilitation and Up gradation of Four laning of Binjabahal – Telebani Section, Km.414.000 to Km.491.710 (Design Chainage Km.414.982 to Km.493.300) of NH-6 (New NH-49) in the State of Odisha under NHDP-IV on Hybrid Annuity Mode – **NOC proposal for ROW permission for 33 kV overhead electrical line across NH-49 near Kalla power station under Barkote Block – reg**

Executive Engineer, RWS&S Division, Deogarh has submitted a proposal for ROW permission for 33 kV overhead electrical line across NH-49 near Kalla power station under Barkote Block in Deogarh District. The details are as under:

Sl. No.	Description	Chainage	Remark
1.	Crossing	At Km.439+800	Crossing of 33 kV overhead electrical line on NH-49

2. 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).

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”.

Abinash
18.05.2023

(Abinash Behera)
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 Executive Engineer for processing the proposal for construction of tower and laying overhead electrical lines in the land along and across 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 18/19.11.1976
3. Ministry Circular no. RW/NH-III/P/66/76 dated 11.05.1982
4. Ministry Circular no. RW/NH-11037/I/86-DOI (ii) dated 28.07.1993
5. Ministry Circular no. RW/NH 11037/I/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-34066/07/2003 S&R (D) dated 17.07.2003

Check list for getting approval for construction of tower and laying overhead electric Lines on NH land (NH-49)

Sl No	Item	Information / Status	Remarks
1	General Information		
1.1	Name & Address of the Applicant	The Executive Engineer, RWS&S Division, College Road, Deogarh-768108, Odisha	
1.2	National Highway Number	NH-49	
1.3	State	Odisha	
1.4	Location	Kalla power station, Barkote Block, Deogarh	
1.5 (a)	Chainage in Km (Tower)	<u>Along the Road</u> Chainage No 439+800	



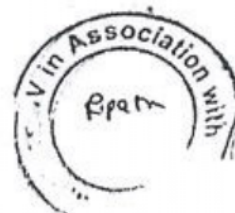
1.5(b)	Chainage in Km (overhead High Tension electric Line)	Across the Road <table><tr><td>Chainage No</td><td>Nos</td></tr><tr><td>439+800</td><td>01</td></tr></table>	Chainage No	Nos	439+800	01		
Chainage No	Nos							
439+800	01							
1.6 (a)	Length in Meters(area in SQ mtr)	Along the Road <table><tr><td>Chainage no</td><td>Sq Mtr</td></tr><tr><td>439+800(LHS)</td><td>1.5m(L)*1.5m(W)*3.2m(D)</td></tr><tr><td>439+800(RHS)</td><td>1.5m(L)*1.5m(W)*3.2m(D)</td></tr></table>	Chainage no	Sq Mtr	439+800(LHS)	1.5m(L)*1.5m(W)*3.2m(D)	439+800(RHS)	1.5m(L)*1.5m(W)*3.2m(D)
Chainage no	Sq Mtr							
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1.6 (b)	Length in Meters (overhead High Tension electric Line)	Across the Road <table><tr><td>Chainage</td><td>Mtr</td></tr><tr><td>439+800</td><td>56</td></tr></table>	Chainage	Mtr	439+800	56		
Chainage	Mtr							
439+800	56							
1.7	Width of available ROW							
1.7 (a)	Left side from center line towards increasing/decreasing chainage / KM direction							
1.7(b)	Right side center from line towards increasing/decreasing chainage / Km direction							
1.8	Proposal to lay pipe line	Along & Across						
1.8(a)	Left side from center line towards increasing/decreasing chainage / KM direction							
1.8(b)	Right side center from line towards increasing/decreasing chainage / Km direction							



1.9	Proposal to acquire land	N.A	
1.9(a)	Left side from center line		
1.9(b)	Right side from center line		
1.10	Whether proposal is in the same side where land is not to be acquired	N.A	
1.11	Details of already laid services, if any along the proposed route	NIL	
1.12	Number of lanes (2/4/6/8 lane) existing	4 Lanes	
1.13	Purposed number of lanes (2/4/6/8 lanes) with paved shoulders	4 Lanes	
1.14	Service road existing or not, if yes which side		
1.14(a)	Left side from center line	N.A	
1.14(b)	Right side from center line	N.A	
1.15	Proposed service road		
1.15(a)	Left side from center line	N.A	
1.15(b)	Right side from center line	N.A	
1.16	Whether proposal to lay overhead electric line and construction tower are after service road or between the service road and main carriageway		
1.17	The permission for laying of overhead electric line and construction tower shall be considered for approval / rejection based on the Ministry Circulars as above		
1.17(a)	Carrying of sewerage / gas pipelines on highway bridges shall not be 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	
1.17(b)	Carrying of overhead electric line and construction tower on bridges shall also be discouraged. However, if the water supply authorities seem to have no other viable alternatives and approach the highway authority well in time before the design of the	Agreed	



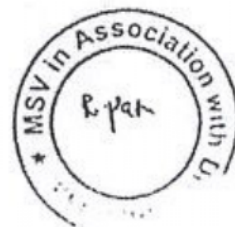
	bridge is finalized , they may be permitted to carry the pipelines on independent superstructure , support on extended portions of piers and abutments in such a manner that in the final arrangement enough free space around the superstructure of the bridge remains available for inspection and repairs, etc.	
1.17(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
1.17(d)	Service are not being allowed indiscriminately on the parapet/any part of the bridges, safety of the bridge 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 or through structure or conduits specially built for that purpose at the expenses of the agency owning the line	
1.18(a)	Existing drainage structures shall not be allowed to carry the lines	Agreed
1.18(b)	Is it on a line normal NH	Yes
1.18(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
1.18(d)	The casing pipe/tower (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	Agreed



	strength and be large enough to permit ready withdrawal of the carrier pipe/cable/tower/overhead electric line		
1.18(e)	Ends of the casing/conduit pipe/tower shall be sealed from the outside, so that it does not act as drainage path	Agreed	
1.18(f)	The casing /conduit pipe/tower should as minimum extend from drain to drain in cuts and toe of slope in the fills	Agreed	
1.18(g)	The top of the casing/conduit pipes should be at least 1.2 mtr below the surface of the road subject to being at least 0.3 mtr below the drain inverts	Agreed	
1.18(h)	Crossing shall be by boring method (HDD) specially where the existing roads pavement is of cement concrete or dense bituminous concrete type	Agreed	
1.18(i)	The casing/conduit pipe/tower/overhead electric line 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 / Drawing enclosed with the proposal		
2.1	Cross section showing the size of trench for open trenching method (is it normal size of 1.2 mtr deep x 0.3 mtr wide)		
2.1(i)	Should not be greater than 60 Cm wider than the outer diameter of the pipe	Yes	
2.1(ii)	Located as close to the extreme edge of the Right-of-way as possible but not less than 15 mtr from the center lines of the nearest carriageway	Yes	
2.1(iii)	Shall not be permitted to run along	Yes	



	the National Highways when the road formation is situated in double cutting, Nor shall these be laid over the existing culverts and bridges		
2.1(iv)	These should be so laid that their top is at least 0.6 mtr below the ground level so as not to obstructure 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 overhead electric line and construction tower chainage, width of ROW, distance of proposed, cable from the edge of ROW, important milestone, intersection. Cross drainage works , etc.	Yes	
2.4	Methodology for laying of showing overhead electric line and construction tower	Yes	
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		
2.4.1(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	
2.4.1(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. On suitable soil rock edged should be excavated and replace by selected material.	Yes	
2.4.1(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	Yes	



	the bottom of the road crust		
2.4.1(d)	The side fill 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 ponding will not be permitted.	Yes	
2.4.1(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	
2.4.1(f)	The excavation shall be protected by flagman, sign and barricades and red lights during night hours	Yes	
2.4.1(g)	If required a diversion shall be constructed at the expense of agency owning the utility line	Yes	
2.4.2	Horizontal Direction Drilling (HDD) Method	No	
2.4.3	Laying overhead electric line and construction tower through CD works and method of laying	No	
2.4.3(a)	On approaches, the water main/cables/tower/overhead electric line 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 this ministry's guideline issued with letter No. NH-HI/P/66/76 dated 19.11.1976	Yes	
3	Draft license Agreement signed by two witnesses	Yes	
4.0	Performance Bank Guarantee in favor of NHAI has to be obtained @ Rs.50/- per running meter (parallel to NH) and Rs.1,00,000/- per		At the time of Agreement



	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 50 mtr away from the edge of the Right of Way. No payment shall be payable by the NHAI to the license for clearing debris / loose earth		RWS&S will be submit
4.1	Performance BG as per above is to be obtained		
4.2	Conformation of BG has been obtained as per NHAI guidelines		
5	Affidavit / Undertaking from the Applicant for		
5.1	Not to damage to other utility, if damage 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 guidelines	Yes	
5.4	Shifting of overhead electric line and construction tower as and when required by NHAI at their own cost	Yes	
5.5	Shifting due to 6 lane / widening of NH	Yes	
5.6	Indemnity against all damages and claims clauses (xxiv)	Yes	
5.7	Traffic movement during laying of overhead electric line and construction tower 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	
5.9	Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alteration to the showing	Yes	



	overhead electric line and construction tower 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 overhead electric line and construction tower will be borne by the agency owing 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 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		
5.12 (i)	Laying of overhead electric line and construction tower will not have any deleterious effect on any of the bridge components and roadway safety for traffic.	Yes	
5.12 (ii)	For 6- laneing "we do undertake 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 6-lanning or any other development"	Yes	
6	Who will sign the agreement on behalf of overhead electric line and construction tower agency.	The Executive Engineer, RWS&s Division, Deogarh.	
7	Certificate from the Project Director		
7.1	Certificate for conforming of all standard condition issued by Ministry Circular No. Ministry Circular no.NH-41(58)68 dated 31.1.1969,Ministry Circular No. NH-III/P/66/76 dated	(Yes/NO)	



	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/DOI dated 19.1.1995, Ministry Circular no. RW/NH/-34066/2/95/ S&R dated 25.10.1999 and Ministry Circular No. RW/NH/34066/7/2003 S&R (B) dated 17.9.2003		
7.2	Certificate from PD in the following format	(Yes/NO)	
7.2 (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 overhead electric line and construction tower 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."	(Yes/NO)	
7.2 (ii) (a)	Where feasibility is available "I do certify that there will be no hindrance to proposed 6 lining based on the feasibility report considering proposed structure at the said location".	(Yes/NO)	
7.2 (ii) (b)	In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed 6- laning".	(Yes/NO)	
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 there of, the licensee shall honor the same".		
9	Who will supervise the work of laying of overhead electric line and construction tower	RWS&S/NHAI	
10	Who will ensure that the defects in road portion after laying of overhead electric line and construction tower are corrected and if not corrected then what action will be taken	RWS&S/NHAI, as per condition in the agreement	
11	Who will pay the claims for damages done / disruption in working of Concessionalre 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 previous approval is accorded for laying of overhead electric line and construction tower then photocopy of register of records of the permission accorded as maintained by PD then copy be enclosed		

[Signature]
Executive Engineer
RWS & S Division
DEOGARH



