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
301 - ए, तीसरी मंजिल, पाल हाईटस, प्लाट् नं जे/7, जयदेव विहार
भुवनेश्वर - 751013, ओडिशा
301-A, 3rd Floor, Pal Heights, Plot No : J/7, Jayadev Vihar
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NHAI/13011/54/RO/OD/ 1169 /2021

20.04.2021

To,

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

Sub: Permission for laying of underground power cable from proposed 132/33 KV Badagada GIS S/s to existing 132/33 KV Grid S/s at Kesura- **Laying of UG cable from Km. 4.500 to Km. 7.750 on LHS and crossing at Km. 7.750 in Bhubaneswar- Puri Section of NH-316- Reg.**

Ref:
1. PD, PIU- Bhubaneswar letter no. 478 dated 16.04.2021
2. DGM (elec.), OPTCL, Bhubaneswar letter no. 452 (5) dated 23.03.2021
3. PD, PIU- Bhubaneswar letter no. 276 dated 03.03.2021
4. DGM (elec.), OPTCL, Bhubaneswar letter no. 182 (6) dated 18.02.2021

Sir,

Please find enclosed herewith a proposal of DGM (elec.), OPTCL, Bhubaneswar seeking permission for Laying of UG cable from Km. 4.500 to Km. 7.750 on LHS and crossing at Km. 7.750 in Bhubaneswar- Puri Section of NH-316. The following table briefs the locations details of the proposal:

Laying Along NH-316	:	Ch. 4.500 to ch. 7.750 (LHS)
Crossing NH-316	:	At Ch. 7.750 km.

2. Accordingly, as per guidelines issued by MoRT&H vide F. No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016, the application alongwith the recommendations of concerned PD & Independent Engineer 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.

Yours faithfully,

Encl: As above

20.4.2021.

CGM (Tech.) & RO, Odisha

Copy to: PD, PIU- Bhubaneswar for information

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय)
National Highways Authority of India
(Ministry of Road Transport & Highways)
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NHAI/13011/54/RO/OD/ 1161 /2021

20.04.2021

INVITATION OF PUBLIC COMMENTS

Sub: Permission for laying of underground power cable from proposed 132/33 KV Badagada GIS S/s to existing 132/33 KV Grid S/s at Kesura- **Laying of UG cable from Km. 4.500 to Km. 7.750 on LHS and crossing at Km. 7.750 in Bhubaneswar- Puri Section of NH-316- Reg.**

DGM (elec.), OPTCL, Bhubaneswar is seeking permission for Laying of UG cable from Km. 4.500 to Km. 7.750 on LHS and crossing at Km. 7.750 in Bhubaneswar- Puri Section of NH-316. The following table briefs the locations details of the proposal:

Laying Along NH-316	:	Ch. 4.500 to ch. 7.750 (LHS)
Crossing NH-316	:	At Ch. 7.750 km.

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 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

20.4.2021

CGM (Tech.) & RO, Odisha
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 Badagada to Kesura

Sl No.	Items	Information/Status	Remarks
1	General Information for Laying Overhead Transmission Line		
1.1	Name and address of the applicant/agency	Deputy GM, Electrical, Bhubaneswar	
1.2	National Highway Number	NH 203 (New NH-316)	
1.3	State	Odisha	
1.4	Location	Tankapani Chhak to Kesura	
1.5	(Chainage in Km.)	4+450 to 7+750 (LHS)	
1.6	Length in Km	3.3 Km (LHS)	
1.7	Width of available Row	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.	30 mtr	
1.8	Proposal to lay Overhead electrical line	NA	
	(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	Not exisitng	
	If yes then which side		
	(a) Left side from centre line.		
	(b) Right side from centre line		
	Proposed service road	NA	
	(a) Left side from centre line.		

K L Jagadish
(SE)

Kumar Gowda
AHE Asst. Highway Engineer

roposal for laying of underground power cables from proposed 132/33 KV Badagada to Kesura

Sl No.	Items	Information/Status	Remarks
1.15	(b) Right side from centre line		
1.16	Whether proposal to lay electricity overhead line is after the service road or between the service road and main carriageway	NA	
1.17	The permission for laying of overhead transmission line 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 overhead 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	
©	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 specialy built for that purpose at the expenses of the agency owning the line.	NA	
(a)	Existing drainage structures shall not ar allowed to carry the lines.	Agreed	
(b)	Is it on a line normal to NH	YES	
©	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	

K. L. Jagadish (SE)
Surveyor Engineer
CEG LTD, BBSR

Navin Kumar C. Gaula
Asst. Engineer
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Team Leader
CEG LTD, BBSR

roposal for laying of underground power cables from proposed 132/33 KV Badagada to Kesura

Sl No.	Items	Information/Status	Remarks
(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 withdrawl of the carrier pipe/cable.	Agreed ✓	
(e0	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 lest 1.2 meter below the surface of the road subject to being at last 0.3 mrt below the drain inverts.	Agreed	
(h)	Crossing shall be bu 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 deepX0.3m Wide).	Agreed	
(i)	Shoulo 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 nnt 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 overhead line, chainage, width of ROW, distance of proposed pipe line from the edge of ROW. Important mile stone, intersections, cross drainage works etc.	Attached	

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PROJECT DIRECTO
भारतीय
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roposal for laying of underground power cables from proposed 132/33 KV Badagada to Kesura

Sl No.	Items	Information/Status	Remarks
2.4	Methodology for laying of proposed electricity overhead line.	Attached	
2.4.1	Open trenching method (May be allowed in utility corridor only where pavement is neither cement concrete not 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 that 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 a firm surface without sudden change in the bearing valve. Unsuitable soil and rock edged should be excavated and replaced by selected material.	Agreed	
©	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 fill 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, adiversion shall be constructed at the expenses of agency owning the utility line.	Agreed	
2.4.2	Horizontal Directional Drilling (HDD) Method	Yes	
2.43	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 30 m from the bridge and subject to all other stipulations contained in this Ministry's guidelines issued with letter No. NH-III/P/66/76 dated 19.11.1976.	Agreed	
3	Draft License Agreement signed by two Witness	Enclosed	

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National Highways Authority of India

roposal for laying of underground power cables from proposed 132/33 KV Badagada to Kesura

Sl No.	Items	Information/Status	Remarks
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 producted due to execution of trenching at least 50m away from the edge of the right of way. No payment shall be payble by the NHAI to the licensee for cleaning 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.		
5.3	Confirming all standarad condition of NHAI's guidelines.		
	Shifting of electricity overhead line as and when required by NHAI at their own cost.		
	Shifting due to 6 laning/widening of NH.		
	Indemnity against all damages and claims clause (xxiv).		
5.4	Traffic movement during laying of electricity overheadline to be managed by the applicant.		
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 the laying, maintenance or shifting of the electricity overhead line will be borne by the agency owning the line.		
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 caried out as desired by the NHAI at the cost of the egency owning the utility line within a reasonable time (not exceeding 60days) of the intimation given.	Attached	
5.8	Certificate from the applicant in the following furmat		

Asst. Highway Engineer

PROJECT DIRECTOR
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India

roposal for laying of underground power cables from proposed 132/33 KV Badagada to Kesura

Sl No.	Items	Information/Status	Remarks
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 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 "		
9	Who will supervise the work of laying of electricity overhead line		
10	Who will ensure that the defects in road portion after laying of electricity overhead line are corected and if not corected then what action will be taken.		
11	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire.		
12	A certificate from PD that he wil enter the proposed permission in the register of records of the permissions in the prescribed proforma (copy enclosed).		
13	If any previous approval is accorded for laying of underground electricity overhead line that photocopy of register of records of permissions accorded as maintained by PD then copy be enclosed.		

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