भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय)
National Highways Authority of India
(Ministry of Road Transport & Highways)
कार्यालय क्षेत्रीय अधिकारी, आंध्र प्रदेश क्षेत्र
Office of the Regional Officer, Andhra Pradesh Region
प्लॉट.क्र.२१, टीचर्स कॉलोनी, गुरुनानक नगर मार्ग, विजयवाड़ा-५२० ००८.आंध्र प्रदेश
Plot No.21, Teacher's Colony, Gurunanak Nagar Road, Vijayawada-520 008. A.P.

टेली / Tele : 0866-2483910
ई-मेल / E-mail : rovijayawada@nhai.org
nhairovja@gmail.com

Lr.No.NHAI/RO-VJA/11045/NOC/2016/ 304 Dt.07.02.2018

To,
The Sr. Technical Director,
NIC, Transport Bhawan,
New Delhi- 110001.

Sub: Permission for laying of overhead electrical line across NH-16 at Km 740.741 near Anakapalli village, Anakapalli Mandal & Kottur Junction, Anakapalli Mandal of Visakhapatnam District, Andhra Pradesh in construction of 400 KV Quad Moose DC Line from existing 400 / 220 KV Kalapaka SS to proposed 400/220 KV SS at Mardam Transmission Line - **Public comments** - Reg.

Sir,

Please find enclosed herewith a proposal of M/s. AP Transco, Vizianagaram seeking NOC for laying of overhead electrical line across NH-16 at Km 740.741 near Anakapalli village, Anakapalli Mandal & Kottur Junction, Anakapalli Mandal of Visakhapatnam District, Andhra Pradesh in construction of 400 KV Quad Moose DC Line from existing 400 / 220 KV Kalapaka SS to proposed 400/220 KV SS at Mardam Transmission Line.

As per MORTH guidelines vide letter No. RW/NH-33044/29/2015/S&R® dated 22nd November 2016, the application along with the recommendation of PD, PIU-Rajahmundry are enclosed herewith with a request to host the same in the Ministry's website for 30 days seeking claims and objections (on grounds of public inconvenience, safety and general public interest), for taking further necessary action.

Yours faithfully,

7.2.18
(Anil Dixit),
Regional Officer

Encl: As above

Copy to: 1) PD, PIU - Visakhapatnam - for information
2) M/s. APTRANSCO, Vizianagaram - for information

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
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National Highways Authority of India
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कार्यालय क्षेत्रीय अधिकारी, आंध्रप्रदेश क्षेत्र
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प्लॉट.क्र.२१, टीचर्स कॉलोनी, गुरुनानक नगर मार्ग, विजयवाड़ा-५२० ००८.आंध्रप्रदेश
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Lr.No.NHAI/RO-VJA/11045/NOC/2016/ 303 Dt.07.02.2018

INVITATION OF PUBLIC COMMENTS

Sub: Permission for laying of overhead electrical line across NH-16 at Km 740.741 near Anakapalli village, Anakapalli Mandal & Kottur Junction, Anakapalli Mandal of Visakhapatnam District, Andhra Pradesh in construction of 400 KV Quad Moose DC Line from existing 400 / 220 KV Kalapaka SS to proposed 400/220 KV SS at Mardam Transmission Line- **Public comments** - Reg.

The Project Director, PIU - Visakhapatnam submitted a proposal of M/s. AP TRANSCO for laying of overhead electrical line across NH-16 at Km 740.741 near Anakapalli village, Anakapalli Mandal & Kottur Junction, Anakapalli Mandal of Visakhapatnam District, Andhra Pradesh in construction of 400 KV Quad Moose DC Line from existing 400 / 220 KV Kalapaka SS to proposed 400/220 KV SS at Mardam Transmission Line.

As per MORTH guidelines vide letter No. RW/NH-33044/29/2015/S&R® dated 22nd November 2016, the Highway Administration will put out the application in the Ministry's website for 30 days seeking claims and objections (on grounds of public inconvenience, safety and general public interest).

In view of the above, the comments of public, if any, on the above mentioned proposal is invited on below mentioned address.

Regional Officer - Vijayawada,
National Highways Authority of India,
Plot No.21, Teachers' Colony, Gurunanak Nagar Road,
Vijayawada, Andhra Pradesh. Pin: 520 008.
Email: rovijayawada@nhai.org

7.2.18
(Anil Dixit),
Regional Officer

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India
(सड़क परिवहन और राजमार्ग मंत्रालय)
(MINISTRY OF ROAD TRANSPORT & HIGHWAYS)
परियोजना कार्यान्वयन इकाई (जि क्यू), भा.रा.रा.पा. एन्क्लेव, कि.मी.2/8 रा.रा.5.,
Project Implementation Unit (GQ), NHAI Enclave, KM 2/8 NH-16
हनुमन्तवाका, विशाखपट्टणम - 530 040, ए.पि., भारत
Hanumanthavaka, Visakhapatnam - 530 040, A.P., India

Phone : 0891-2707600
2714119
Fax No. : 0891-2714118
E-mail : vis@nhai.org

M-T/YM

संदर्भ / Ref. No. NHAI/PIU-VSP/Power Grid/2017/ 22046

दिनांक / Date 20.12.2017

To
The Regional Officer,
National Highways Authority of India,
Regional Office, Gurunanak Nagar,
Teachers Colony,
VIJAYAWADA.

Sub: NHAI, PIU, Visakhapatnam - 400 KV Quad Moose DC line from Existing 400/220KV Kalapaka SS to Proposed 400/220KV SS at Mardam Transmission Line Crossing NH-16 at Km.740.741, near Anakapalli Village, Anakapalli Mandal & Kottur Jn., Anakapalli Mandal of Visakhapatnam District, Andhra pradesh – **Request for Permission**- regarding.

Ref: (1) Team leader, LEC Lr No. LEC/Project Office/NHAI-PIU-VSP/APTRANSCO 400KV/2017/528 dated 14.12.2017
(2) Executive Engineer, 400KV construction, Vizianagaram Lr No. EE/400 KV Const Division/VZM/F.No.11 D.No.503/17 dt. 17.08.2017

Sir,

1. With reference to the letter 2nd cited above, it is to submit that the Executive Engineer, 400KV Construction, Vizianagaram has submitted a proposal with a request to accord permission for crossing of NH-16 in between AP28 & AP29 of the project supply, Erection, Testing and Commissioning of 400 KV Quad Moose DC line from Kalpaka 400/220 KV SS to proposed 400/220 KV SS at Maradam (Garividi), Dattirajeru(M), Vizianagaram-120 Km (approx) on Turnkey bais-Over head crossing of NH-16 at Km.740.741 near Kothuru Junction, Anakapalli, Visakhapatnam.

2. The proposal has been inspected and verified by M/s Lion Engineering Consultants and submitted their recommendations vide their letter under 1st reference (copy enclosed) as per the guidelines and the following points are communicated.

   (i) The ROW details as per the available record are 60M at Km.740.741 and the proposal is away from ROW.

   (ii) The applicant proposed the construction of the Pylon Towers at a Horizontal clearance of 84 meters on LHS side and 146 meters on RHS side from the edge of the paved surface which are far away from ROW. Further the NHAI circular NO.NHIII/P/20/77 dated 08.04.1982 states that the Pylon of H.T Lines along crossing the road shall be located outside of the NH land.

(iii) As per the drawing submitted by the applicant the vertical clearance at this location i.e., at Km.740.741 is 17.2 meters. As reference to the manuals on construction and operation practices of EHV substations and lines and commercial and load dispatches operations VOL-II page No.27 and Electrical clearance to be maintained for overhead line as per CEA safety regulation 2010 & other manuals is recommending for vertical clearances for 400KV as 12.5 meters. **(Vertical clearance is the clear vertical distance between highest point of carriageway and the lower point of any overhead conductor installation which includes the conductor wire, bearer wire, guard wire, stay wire, guard cradle, or screen. The lower point should be determined after accounting for the maximum possible sag in the lower member of the conductor installation)**

(iv) The check list submitted by the Executive Engineer, APRTANSCO is duly verified for relevant information against each item and are found to be correctly mentioned as per the specified Ministry guidelines, but necessarily the same specification are to be followed at site while carrying out the work at the said locations.

4. The following documents are submitted by the Agency as per the norms and to be followed at site.
   (a) Proposal letter
   (b) Check list
   (c) License deed
   (d) Undertaking
   (e) Certificate
   (f) Crossing details at NH (Plan)
   (g) Drawing for cross section showing overhead line
   (h) Picture showing NH crossing (Google image)
   (i) Methodology for laying of overhead electric power lines
   (j) Power of Attorney
   (k) CAS Memo No.CE/400KV Const/SE/PM/400kv/D1-A(S)/F.KLP-GRD/D.No.322/17 Dt. 01.09.2017
   (l) Tower drawing

5. Keeping in view of the recommendations of the Consultants, the proposal submitted by the Executive Engineer, 400KV Construction, Vizianagaram, for permission of crossing of NH-16 in between AP28 & AP29 of the project supply, Erection, Testing and Commissioning of 400 KV Quad Moose DC line from Kalpaka 400/220 KV SS to proposed 400/220 KV SS at Maradam (Garividi), Dattirajeru(M), Vizianagaram-120 Km (approx) on Turnkey bais-Over head crossing of NH-16 at Km.740.741 near Kothuru Junction, Anakapalli, Visakhapatnam is herewith recommended for according necessary approval of the competent authority please.

Yours faithfully,

Encl: Proposal in two sets
(01 Original + 01 Duplicate)

A. SRINIVASA RAO
Project Director

CERTIFICATE

7.1 It is certified that the proposal for "400 KV Quad Moose DC line from Existing 400/220KV Kalapaka SS to Proposed 400/220KV SS at Mardam Transmission Line Crossing NH-16 at Km.740.741, near Anakapalli Village, Anakapalli Mandal & Kottur Jn., Anakapalli Mandal of Visakhapatnam District, Andhra pradesh is confirming of all the standard conditions / guidelines vide circular No. NH-III/P/20/77 dated 08.04.1982 and IRC 32-1969.

7.2 (i) It is certified that any other location of the overhead power transmission line would be extremely difficult and unreasonable costly and the installation of overhead power transmission 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,.

12. It is also certified that the details of the proposed permission shall be entered in the Register of Records of the permission maintained by PIU.

(A. SRINIVASA RAO)
Project Director
NHAI, PIU, Visakhapatnam

CHECK -LIST

Guidelines for project Directors for processing the proposal of laying Overhead Electrical Power Transmission Line in the land across National Highways vested with NHAI.

Relevant circulars

1) Ministry Circular No.NH-III/p/66/76 dated 19.11.1976

2) Ministry Circular No. NH-III/P/20/77 dt. 08.04.1982

3) Ministry Circular No.RW/NH/-III/P/66/76 Date 11.5.1982

4) Minstry Circular No.RW/NH-11037/1/86/DOI/dated 19.01.1995

Check list for getting approval for laying of Overhead Electric Power Transmission Line on NH land

Sl. no	Item	Information/status	Remarks
1	General Information		
1.1	Name and Address of the Applicant	The Executive Engineer, 400KV Construction Division APTRANSCO, Koppu guranna Building, Visakhapatnam. Siddhatha Nagar, Vizianagaram. Andhra Pradesh-535001.	
1.2	National Highway Number	NH - 16	
1.3	State	ANDHRA PRADESH	
1.4	Location	Crossing National Highway No-16 at KM 739/740, Near Anakapalle Village, Anakapalle Mandal & Kottur Jn., Anakapalle Mandal of Visakhapatnam District, Andhra Pradesh	
1.5	(Chainage in km)	Across at KM 740/741	
1.6	Length in Meter	NA, as the proposal is for crossing of NH	
1.7	Width of available ROW		
	(a) Left side from center line towards increasing chainage/km direction		
	(b) Right side from center line towards increasing chainage/km direction		
1.8	Proposal to lay overhead Electric Power Transmission line		
	(a)Left side from center line towards increasing chainage/km direction	NA, as the proposal is for crossing of NH	

Project Director
National Highways Authority of India
P.I.U. VISAKHAPATNAM

Executive Engineer
400 KV Construction
AP TRANSCO, VIZIANAGARAM

Check list for getting approval for laying of Overhead Electric Power Transmission Line on NH land

Sl. no	Item	Information/status	Remarks
	(b)Right side from center line towards increasing chainage/km direction	NA, as the proposal is for crossing of NH	
1.9	Proposal to acquire land		
	(a)Left side from center line	NA	
	(b)Right side from center line	NA	
1.10	Whether proposal is in the same side where land is not to be acquired If not then where to lay the cable	NA, as the proposal is for crossing of NH	
1.11	Details of already laid services, if any, along the proposal route	Nil	
1.12	Number of lanes (2/4/6/8 lanes) existing	4 Lane	
1.13	Proposed Number of lane (2 lane with paved shoulders/4/6/8 lanes)	NA	
1.14	Service road existing or not	NO	
	If yes then which side	NA	
	(a)Left side from center line	NA	
	(b)Right side from center line	NA	
1.15	Proposed service road	NA	
	(a)Left side from center line	NA	
	(b)Right side from center line	NA	
1.16	Whether proposal to lay Overhead Power Transmission line is after the service road in between the service road between the service road and main carriage away	NO, as the proposal is across the NH	
1.17	The permission for laying Overhead Power Transmission line shall be considerd for approval/rejection based in the ministry circulars mentioned as above	Consider for the approval.	
1.18	If crossings of the road involved	Yes	
	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	Yes. Overhead Electrical line by arranging towers.	
	(a) Existing drainage structures shall not be allowed to carry the lines.	NA	

Project Director
National Highways Authority of India
P.I.U. VISAKHAPATNAM

Executive Engineer
400 KV Construction
AP GARAM

Check list for getting approval for laying of Overhead Electric Power Transmission Line on NH land

Sl. no	Item	Information/status	Remarks
	(b) Is it on the line normal to NH	Yes	
	(c) Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 metre. What is the distance from the existing structures.	Yes (--------mtr)	
	(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 with drawal of the carrier pipe /cable.	NA	
	(e) Ends of the casing / conduit pipe shall be sealed from the outside, so that it does not act as a drainage path	NA	
	(f) The casing/conduit pipe should as minimum extended from drain to drain in cuts and toe of slope toe of slopes in the fills.	NA	
	(g) The top of the casing /conduit pipe should be atleast 1.2 meter below the surface of the road subject to being atleast 0.3metr below the drain inverts.	NA	
	(h) Crossing shall be by boring method HDD, specially where the existing road pavement is of cement concrete or dense bituminous concrete type .	NA as crossing is overhead. Methodology is enclosed.	
	(i) The casting / 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.	NA	
2	Documents / Drawings enclosed with the proposal		
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) (i) Should not be greater than 60cm wider than the outer diameter of the pipe. (ii) Located as closed to the extreme edge of the right of way as possible but not less than 15m from the centre lines of the nearest carrage way. (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. (iv) These should be so laid that their top is atleast 0.6meter below the ground level so as not to obstruct drainage of the road land.	NA, as the crossing is overhead and across NH.	
2.2	Cross section showing the size of pit and location of cable for HDD method	NA, as crossing is overhead.	

Project Director
National Highways Authority of India
P.I.U. VISAKHAPATNAM

Executive Engineer
400 KV Construction
AP TRANSCO, VIZIANAGARAM

Check list for getting approval for laying of Overhead Electric Power Transmission Line on NH land

Sl. no	Item	Information/status	Remarks
2.3	Strip plan / route plan showing Overhead Power Transmission Line Chainage, width of ROW ,distance of proposed cable from the edge of ROW , important mile stone, intersections, cross drainage works etc.	Yes	
2.4	Methodology for laying of Overhead Power Transmission Line.	Yes, Enclosed.	
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 .	NA	
	(a) The trench width should be atleast 30cm, but not more than 60cm wider than the outer diameter of the pipe.	NA	
	(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.	NA	
	(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 th bottom of the road crust.	NA	
	(d) The sidefill 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. Overfill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or ponding will not be permitted. (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.	NA	
	(f) The excavation shall be protected by flagman, signs and barricades, and red lights during night hours.	NA	
	(g) If required, a diversion shall be constructed at the expense of agency owning the utility line.	NA	
2.4.2	Horizontal Direction Drilling (HDD) method	NA	
2.4.3	Laying of Overhead electrical line through CD works and method of laying	NA	
3	Draft License Agreement signed by two witnesses	Yes	

Project Director
National Highways Authority of India
P.I.U. VISAKHAPATNAM

Executive Engineer
400 KV Construction
AP TRANSCO, VIZIANAGARAM

Check list for getting approval for laying of Overhead Electric Power Transmission Line on NH land

Sl. no	Item	Information/status	Remarks
4	Perfomance 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 atleast 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.	Will be submitted after according approval	
4.1	Perfomance Bank Guarantee as per above is to be obtained.	Will be submitted as per the demand of NHAI	
4.2	Confirmation of BG has been obtained as per NHAI guidelines.	Yes	
5	**Affidavit /Undertaking from the applicant for**		
5.1	Not to damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency.	Yes, Enclosed.	
5.2	Renewal of Bank Guarantee	Yes, Enclosed.	
5.3	Conforming all standard condition of NHAI guidelines	Yes, Enclosed.	
5.4	Shifting of Overhead Power Transmission as and when required by NHAI at their own cost.	Yes, Enclosed.	
5.5	Shifting due to 6 laning /widening of NH	Yes, Enclosed.	
5.6	Idenmnity against all damages and claims clause (XXIV)	Yes, Enclosed.	
5.7	Traffic movement during laying of Overhead Power Transmission line to be managed by the applicant	Yes, Enclosed.	
5.8	If any claim is raised by the concessionire then the same has to be paid by the applicant	Yes, Enclosed.	
5.9	Prior approval of the NHAI shall be obtained before undertaking any work of installation shifting or repairs, alteration to the over head power Transmission line located in the National Highway Right-of -ways.	Yes, Enclosed.	
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 over head power Transmission line will be borne by the agency owing the line.	Yes, Enclosed.	
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 owing the utility line within a reasonable time (not exceeding 60 days) of the intimation given.	Yes, Enclosed.	
5.12	Certificate from the applicant in the following format		

Project Director
National Highways Authority of India
P.I.U. VISAKHAPATNAM

Executive Engineer
400 KV Construction
AP TRANSCO, VIZIANAGARAM

Check list for getting approval for laying of Overhead Electric Power Transmission Line on NH land

Sl. no	Item	Information/status	Remarks
	(i) Laying of Overhead Power Transmission Line will not have any deleterious effects on any of the bridge components and road way safety for traffic. (ii) For 6 lanning "We do undertake that I will relocate service road / approach road / utilities at my own cost notwithstanding the permission granted within such time as well be stipulated by NHAI for future four / six laning of any other development."	Yes, Enclosed.	
6	Who will sign the agreement on behalf of Overhead Power Transmission Line agency.	Executive Engineer, APTRANSCO	
7	Certificate from the Project Director.		
7.1	Certificate for conforming of all standard condition issued vide Ministry circular no. NH-III/P/66/76, Dt 19.11.1976, Ministry Circular No. NH-III/P/20/77 Dt 8-04-1982, Ministry circular no. RW/NH-III/p/66/76 Dt 11.5.1982 and Ministry circular no. RW/NH-11037/1 /86/DOI, dated 19-01-1995.	Yes, Enclosed.	
7.2	Certificate from the P D in the following Format		
	(i) "It is certified that any other location of the Overhead Power Transmission line would be extremely difficult and unreasonable costly and the installation of Overhead Power Transmission 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 carriage way, easing of curve etc."	Yes, Enclosed.	
	(ii) For 6 laning (a) Where feasibility is available " I do certify that there will be no hinderance to proposed six laning based on the feasibility report considering proposed structures at said location" (b) In case feasibility report is not available " I do certify that sufficient ROW is available at side for accommodating proposed six laning".	NA	
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 over head power transmission line has also been granted as a right of way to the concessionaire under the concession agreement for upgradation of **(Kolkata to Chennai section from KM 799.998 to KM 1022.494 of NH No. 16 on Build, Operate and Transfer Basis)** and therefore, The Licensee honor the same."	Yes, Inserted	
9	Who will supervise the work of laying Overhead Power Transmission Line.	APTRANSCO, Project Director, NHAI	
10	Who will ensure that the defects in road portion after laying of Overhead Power Transmission Line are corrected and if not correceted then what action will be taken.	APTRANSCO, Project Director, NHAI	
11	Who will pay the claims for damages done/disruption in working of concessionaire if asked by the concessionaire.	APTRANSCO	

Project Director
National Highways Authority of India
P.I.U. VISAKHAPATNAM

Executive Engineer
400 KV Construction
AP TRANSCO, VIZIANAGARAM

Check list for getting approval for laying of Overhead Electric Power Transmission Line on NH land

Sl. no	Item	Information/status	Remarks
12	A certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed proforma (copy enclosed).	Yes, Enclosed.	
13	If any previous approval is accorded for laying of Overhead Power Transmission then photocopy of register of records of permissions accorded as maintained by PD may be enclosed.	Yes, Enclosed.	

Project Director
National Highways Authority of India
P.I.U. VISAKHAPATNAM

Executive Engineer
400 KV Construction
AP TRANSCO, VIZIANAGARAM