



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)

## National Highways Authority of India

(Ministry of Road Transport & Highways, Govt. of India)

क्षेत्रीय कार्यालय-पश्चिम उ०प्र०, लखनऊ

Regional Office - West UP, Lucknow.

3/248, विशाल खण्ड, गोमती नगर, लखनऊ-226010 (उ.प्र.)

3/248, Vishal Khand, Gomti Nagar, Lucknow-226010 (UP)

दूरभाष / Phone : 0522-4960291

टेलीफैक्स / Fax : 0522-4950680

ई-मेल / E-mail : rowestup@nhai.org

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19001/1/RO-W-UP/NH-02/Km.163.700/OH/624

Dated: 19.02.2021

### Invitation of Public Comments

**Sub: NOC for O/H crossing of NH-91 with 400 KV DC Shamli - Aligarh Transmission Line in between Ch.163.700 to Ch.163.800 near Village Akraabad & Nanau in the State of Uttar Pradesh - reg.**

The Authorized Signatory M/s EED, UPPTCL has submitted the proposal for permission for overhead power line crossing of NH-91 with 400 KV DC Shamli - Aligarh Transmission Line in between Ch.163.700 to Ch.163.800 near Village Akraabad & Nanau in the State of Uttar Pradesh.

2. From the submitted proposal, it is seen that the position of Tower is outside of NH ROW. Length of crossing Span is 196m & Towers are at a distance of 82m & 70m from either side of NH boundary while height of towers is 55.15m in both side. Vertical Clearance between road level & the lowest conductor is 25.08m. Width of available ROW is 40m.

3. As per the guidelines, issued by the Ministry vide OM No.RW/NH-33044/29/ 2015/ S&R(R) dated 22.11.2016, the application shall be put out 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, comments of the public on the above application is invited to the below mentioned address, which should reach by this office within 30 days from the date of publication beyond which no comments shall be entertained.

The General Manager cum Regional Officer,  
National Highways Authority of India  
Regional Office, UP-West, Lucknow  
3/248, Vishal Khand, Gomti Nagar  
Lucknow-226 010

This issues with the approval of RO-West (UP).

Encl: As above.

(A R Chitranshi)  
DGM(T)  
For RO-West, UP

### Copy to:

1. Web Admin, NHAI-HQ- with request for uploading on the NHAI website.
2. The Technical Director, NIC, Transport Bhawan, New Delhi- with request for uploading on the Ministry's website.
3. The Authorized Signatory M/s EED, UPPTCL, Khurja, U.P. for information.
4. The PD, PIU-Aligarh for information.

*"Building a nation, not just Roads."*

मुख्यालय : प्लॉट सं० जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली - 110 075, दूरभाष : 91-11-25074100/200

Head Office : Plot No. G-5 & 6, Sector - 10, Dwarka, New Delhi - 110 075 Phone : 91-11-25074100/200



# CHECK LIST

Guidelines for Project Directors for processing the proposal of laying over Head Electrical Line Crossing National Highway Vested with NHAI

Relevant Circulators/Codes

1) Ministry Circular No- NH-III/P/20/77 Dated 08.04.1982

2) Indian Electricity Act- 1910

3) Indian Electricity Rules- 1956

4) IRC:32-1969

5) IS:5613-1976 Part- I to IV

Check list for laying of 400KV Shamli-Aligarh Line for Over Head Crossing in Delhi-Kanpur National Highway-91

Sl.No	Item	Information/Status	Remark
1	General Information		
1.1	Name and address of the applicant with Full Address	Executive Engineer, Electricity Transmission Division, U.P.Power Transmission Corp Ltd, 220KV Sub Station, Dharpa, Khurja.	
1.2	National Highway Number	NH - 91	
1.3	State	Uttar Pradesh	
1.4	Location	Near Vill Akrabad & Nanau.	
1.5	Name of the Line	400 KV D/C Shamli – Aligarh TWIN MOOSE Transmission Line	
1.6	Chain age in Km	Ch No.163.700 – 163.800 (Exact Location 163.756 KM	
1.7	Length in metre(Span)	196 Mtr	
1.8	Width of available ROW	40 Mtr	
	a) Left side from center line toward increasing chain-age/km direction.	20 Mtr	
	b) Right side from center line towards increasing chain-age/km direction	20 Mtr	
1.9	Proposal to lay overhead		
	a) Left side from center line toward increasing chain-age/Km direction	AP15/0 at a distance of 106.00 Mtr. from center of Road.	
	b) Right side from center line towards increasing chain-age/Km direction	AP14/0 at a distance of 90.00 Mtr. from center of Road.	
	c) Crossing of NH number	NH - 91	
1.10	Proposal to acquire land		
	a) Left side from the center line	N/A	
	b) Right side from the center line	N/A	
	Whether proposal is		
	a) In the same side where land is not to be acquired	Yes	

प्रबंधक (तक)/Manager (T)  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण, प.क.इ.-अलीगढ़  
National Highways Authority of India, PIU-Aligarh  
(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)  
(Ministry of Road Transport & Highways, Govt of India)

EXECUTIVE ENGINEER  
ELECTRICITY TRANSMISSION DIVISION  
I I P POWER TRANSMISSION CORPORATION LTD  
DHARPA, KHURJA



1.11	b) Crossing the National Highway		
	c) If not then where to lay the overhead Electrical Line	Yes. Crossing the National Highway. Towers shall be constructed outside NHAI Land Boundary.	
1.12	Details of already laid services(overhead) Telecommunication line overhead Electrical line etc) if any along proposed route proposed crossing.	N/A	
	shoulder 4/6/8	Existing 2 lane, Proposed 4 lane	
1.15	Service road existing or not	No service Road.	
	if yes then which side		
	a) Left side from the center line	N/A	
	b) Right side from the center line	N/A	
1.16	Proposed Service Road		
	a) Left side from the center line	N/A	
	b) Right side from the center line	N/A	
1.17	Whether proposal to lay overhead Electrical line is after the service road or between the service road and main carriage way or crossing the National Highway.	Overhead Electric Transmission Line crossing the NH-91.	
1.18	The permission of laying overhead Electrical line shall be considered for approval/rejection based on the ministry circulars and relevant codes.		
1.19	If crossing of the road involved	Yes	
	A) Is it on a line normal to NH and provide length of crossing span	196 Mtr.	
	B) Structure( Towers tension towers, pole for HT line only) for crossing shall not be too near to the existing structures on the National Highway the minimum distance being 15 meter	Distance more than 106 Mtr & 90 Mtr from centre of road.	
	i) Type of Existing/Proposed structure for National Highway.	HT Tower 55.15 Mtr in both side.	
	ii) What is the distance of tower, pole and tension towers from the existing/proposed structure of National Highway.	Distance more than 106 Mtr & 90 Mtr from centre of NH.	
	c) The overhead lines and their supporting poles/towers should ordinarily be placed at the extreme edge of the road land boundary. In any case, these shall be at 10 meters away from the edge of the existing traffic lane. Where the existing roadway is narrow than the minimum required according to standard or where the widening is proposed for any reason. the lateral clearance shall be reckoned with respect to ultimate road way. <b>What is the horizontal clearance from the extreme edge of the road boundary.</b>	N/A Towers shall be constructed at a distance of 70.00 Mtr. (RS) & 82.00 Mtr. (LS) towards increasing chainage direction from boundary of Road towards increasing Chainage direction	
	d) The overhead lines and their supporting poles/towers should be ordinarily being placed at a minimum distance of 5.0m from the nearest line of avenue trees.	N/A Towers shall be constructed at a distance of 70.00 Mtr. (RS) & 82.00 Mtr. (LS) towards increasing chainage	



		direction from boundary of Road towards increasing Chainage direction	
	e) In Mountainous/hilly terrain the overhead line should be erected preferably on the valley side as far as away as practicable. In hilly region, level of ground at suitable distance	Plain terrain.	
	below the outer conductor on either side from the center line is also to be noted and marked in profile so as to ensure required ground clearance underneath conductor and side clearance in swing conditions. Is the proposal in hilly area? f) The horizontal clearances in respect of poles erected for the purpose of street lighting in urban situation shall be as under.	N/A	
	i) For road with raised kerbs- Minimum 300mm from the edge of the nearest kerb 600mm being preferable.	N/A	
	ii) For road without raised kerbs- At least 1.5m from the edge of carriage way subject to minimum of 5.0 meter from the center line of the carriage way.	N/A	
	g) The pylons of HT line along the crossing the road shall be located outside the National Highway land	YES	
	h) For crossing the line of same voltage or lower voltage suspension/tension tower with suitable extension shall be used	YES. Tension Towers with suitable extension shall be used.	
	l) The vertical clearance of the overhead line crossing the road shall be reckoned from the top of the crown of the road taking into account the anticipated final top level due to future raising of road level, strengthening of pavement etc. The actual ground clearance of high tension lines for voltage above 650 volts varies depending upon the voltage transmitted and these are stipulated in Indian standard codes is 5613-1976 [art I tp IV and Indian Electricity Rules 1956 as under/	<u>25.08</u> Mtr. Ground Clearance shall be taken jointly with NHAI after completion.	
	For electric power lines carrying low voltage up to and including 650volts- 600mm	N/A	
	For electric power lines carrying voltage exceeding 650volts -6500mm	N/A	
	220KV-7015 mm	N/A	
	400KV-8840mm	YES	
	800KV-15000mm	N/A	
	Note: These are minimum requirement where every local authority requirement is higher the same shall be provided . In case of HT line. Road crossing the ground clearance at the road under maximum temperature and in still air shall be such that even with conductor bundle broken in adjacent span the ground clearance of the conductor from the road surface shall not be less than 15.00	Ground clearance from road surface to bottom conductor in 25.08 Mtr.	
	What is the voltage of proposed line and clearance under maximum sag condition between lowest conductor of the proposed line and existing National	400 KV.	



	Highway/future developed National Highway.		
2	Affidavit/Under taking to be obtaining from (to the furnished by) the applicant	Yes.	
2.1	Not to Damage to other utility, if damaged then to pay the losses either to NHAI or to the concern agency.	Yes.	
2.2	Undertaking for renewal of Bank Guarantee if required.	Yes.	
2.3	Confirming all standard conditions as laid down in Ministry Circular No- NH-III/P/20 dated 08.04.1982. Indian Electricity Act- 1910, Indian Electricity Rule-1956, IRC-32-1969 IS: 5613-1976 Part I to IV and NHAI's guideline.	Yes	
2.4	Shifting of overhead electrical line at their own cost as and when required by NHAI	Done by UPPTCL Electrical Department by own cost.	
2.5	Shifting of overhead electrical line at their own cost if require due to 4 lining widening of National Highway.	Done by UPPTCL Electrical Department by own cost.	
2.6	Indemnity against all damaged and claims what so ever kind that may be to NHAI or any third party in the ROW during installation, operation and maintenance.	Done by UPPTCL Electrical Department by own cost.	
2.7	Traffic movement during laying of overhead electrical line to be managed by the applicant.	Yes managed by UPPTCL.	
2.8	If any claim is raised by the concessionaire then the same has to be paid by the applicant.	Yes Paid by UPPTCL.	
2.9	Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the overhead electrical line located in the National Highway Right of way.	Yes.	
2.10	Expenditure, if any, incurred by NHAI for repairing any damage caused to the National Highway by the laying, maintenance of the overhead electrical line will be borne by the agency owing the line.	Yes.	
	If 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 NHAI at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given.	Yes.	
2.12	Certificate from the applicant in the following format		
	1) Laying of overhead electrical line will not have any deleterious effect on any of the bridge components and roadway safety for traffic	Yes.	
	2) For 4 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 will be stipulated but NHAI for fute six lanning or any other development.	Yes.	
2.13	The transmission line installation shall be carried out by trained and experienced personnel and supervised by technically qualified persons competent to undertake such work.	Yes.	

*[Signature]*

पी.पी. सिंह / P.P. SINGH

परियोजना निदेशक / Project Director


भारतीय राष्ट्रीय राजमार्ग प्राधिकरण / National Highways Authority of India  
परियोजना कार्यान्वयन इकाई-अलीगढ़ / Project Implementation Unit-Aligarh

*[Signature]*

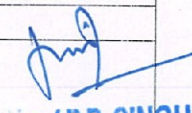
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U.P. POWER TRANSMISSION CORPORATION LTD.  
DHARMA, KHURJA



2.14	The applicant ensures the safety of the highway traffic against the hazard of the high voltage lines during installation operation and maintenance.	Yes.	
2.15	Undertake for compliance with Indian electricity rules and other authorities regulation- all overhead lines shall comply with the requirements of the Indian electricity act and rules made there under and the regulations or specifications as laid down by railways or railway electrification authorities. Post and telegraphs department roadways or navigation or aviation authorise and power and telecommunication coordination committee. Wherever applicable	Yes.	
3	Other documents and drawings to be furnished by the applicant	Yes.	
3.1	Method of laying or overhead electrical line	Yes.	
3.2	Draft license agreement	Yes.	
3.3	Performance bank guarantee in favour of NHAI has to be obtained @100 per running meter (parallel to NH) and Rs100000/- per crossing of NH for a period of one year initially (extendable if required till satisfactorily completion of work) as a security for ensuring/making good the area, clearing the debris/loose earth etc produced.	N/A	
3.4	Strip plan/route plan showing overhead electrical line chain age, width of ROW distance of proposed structure(Tower, Tension tower and pole for HT line only) from the edge of ROW, important mile stone, intersections, cross drainage work any other structure existing of proposed etc.	Yes	
4	Certificate from the project directors.		
4.1	Certificate confirming that the proposal has been examined with respect to the structures and developmental work considered at this location issued vide ministry circulator.	Yes.	
4.2	certificate from PD in the following format		
	i) It is certified that any other location of the electric line would be extremely difficult and unreasonable costly and the installation of electric line within ROW will not adversely affect the design, stability and traffic of the highway nor the likely future improvement such as widening of the carriage way, easing of curve etc	N/A	
	ii) For 6 lanning	N/A	
	a) Where feasibility is available I do certify that there will be no hindrance to proposed six lanning based on the feasibility report considering proposed structures at the said location.	N/A	
	b) In case feasibility report is not available I do certify that sufficient ROW is available at site for accommodation proposed six lanning	N/A	
5	If NH section proposed to be taken up by NHAI on BOT basis a clause is to be instead in the agreement. The permitted highway on which license has been granted.	N/A	

  
 प्रबंधक (सिस्टम) / Manager (T)  
 भारतीय राजमार्ग प्राधिकरण, रा.म.इ.-अलीगढ़  
 National Highways Authority of India, P.U.-Aligarh  
 (सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)  
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 परियोजना निदेशक / Project Director  
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण / National Highways Authority of India  
 परियोजना कार्यान्वयन इकाई-अलीगढ़ / Project Implementation Unit-Aligarh



Concession agree for up gradation of Aligarh – Kanpur (163Km to 164Km) NH No- 91 on build operate and transfer basis) and therefore the licence shall honour the same.	N/A	
Who will supervise the work of laying of overhead electrical line	UPPTCL will supervise of laying work.	
Who will sign the agreement on behalf of overhead electrical line agency.	Executive Engineer, UPPTCL	
Who will ensure that the defects in road portion after laying of overhead electrical line are corrected and if not corrected then what action will be taken.	Executive Engineer, UPPTCL	
Who will pay the claims for damages done/disruption in working of concessionaire if asked by he concessionaire.	Executive Engineer, UPPTCL	
A certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed Performa ( Copy enclosed)	NHAI	
If any previous approval is accorded for laying of overhead electrical line then photocopy of register of records of permissions accorded as maintained by PD may be enclosed.	N/A	

FOR UTTAR PRADESH POWER TRANSMISSION CORP LIMITED.

  
पी०पी० सिंह / P.P. SINGH


परियोजना निदेशक / Project Director

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण / National Highways Authority of India

परियोजना कार्यान्वयन इकाई-अलीगढ़ / Project Implementation Unit-Aligarh

FOR NATIONAL AUTHORITY OF INDIA.

  
EXECUTIVE ENGINEER  
ELECTRICITY TRANSMISSION DIVISION  
U.P. POWER TRANSMISSION CORPORATION LTD.  
DHARMA, KHURJA

  
प्रबंधक (तक) / Manager (T)  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण, पक इ-अलीगढ़  
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