



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)

## National Highways Authority of India

(Ministry of Road Transport and Highways, Government 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

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19001/1/RO-W-UP/NH-91/Km.101.070/PGCIL/OH/1094

Dated: 17.12.2021

### Invitation of Public Comments

Sub: NOC for O/H crossing of NH-91 with 400 KV DC (Twin Moose) Khurja (STPP) - Aligarh (PG) Tr. Line at Ch.101.070 (THDCIL) near Village - Jahanpur, Tehsil - Khurja, Distt.- Bulandshahr in the State of Uttar Pradesh - reg.

The Authorized Signatory M/s PGCIL has submitted the proposal for permission for overhead power line crossing of NH-91 with 400 KV DC (Twin Moose) Khurja (STPP) - Aligarh (PG) Tr. Line at Ch.101.070 (THDCIL) near Village - Jahanpur, Tehsil - Khurja, Distt.- Bulandshahr 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 237m & Towers are at a distance of 59m & 118m from either side of NH boundry while height of towers is 52.83m in both side. Vertical Clearance between road level & the lowest conductor is m. Width of available ROW is 60m.

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 Chief 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.

(Roopak Jain)  
Dy. Manager(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 PGCIL, Aligarh U.P. for information.
4. The PD, PIU-Aligarh for information.



# CHECK LIST

Guidelines For Project Director for Processing The Proposal of Laying Over Head Electrical Line Crossing National Highway Vested with NHAI

Relevant Circular / Codes

- 1) Ministry Circular No. NH-III/P/20/77 Dated- 08.04.1982
- 2) Indian Electricity Act-1910
- 3) Indian Electricity Act-1956
- 4) IRC:32-1969
- 5) IS: 5613-1976 Part-I to IV

Check list for laying of 400 KV D/C Khurja STPP- Aligarh Transmission line over Head Crossing in Bypass of Ghaziabad- Aligarh National Highway

SL.NO.	Item	Information/Status	Remarks
1	General Information		
1.1	Name and address of the applicant with full Address	General Manager ,Power Grid Corporation of India Limited, (765/400 KV GIS Substation) Village-Keelpur, Khair, Aligarh (202141) UP.	
1.2	National Highway Number	Bypass of NH-91	Under Construction
1.3	State	Uttar Pradesh	
1.4	Locations	Near Village- Jahanpur	
1.5	Name of the Line	400 KV D/C Khurja STPP- Aligarh (PG) Transmission Line.	
1.6	Chainage in km	101.000 To 101.100(Exact Location 101.070)	(As per new THDC Bypass)
1.7	Length in metre (Span)	NA, as the proposal is for crossing of NH	
1.8	Width of available ROW		
	(a) Left side from center line toward increasing chainage/km direction .	30 mtr	
	b)Right side from center line toward increasing chainage/km direction	30 mtr	
1.9	Proposal to Lay Over head		
	(a) Left side from center line towards increasing chainage/km direction	AP-38 at a distance of 89.00 mtr from center of road	
	(b) Right side from center line towards increasing chainage/km direction	AP-39 at a distance of 148.00 mtr from center of road	
	c) Crossing of NH number	Bypass of NH-91	Under Construction
1.10	Proposal to acquire land		
	(a) Left side from center line	N/A	
	(b) Right side from center line	N/A	
1.11	Whether proposal is		
	a) In the same side where land is not to be acquired	NA, as the proposal is for crossing of NH	
	b) crossing the National Highway	YES	
	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 over head Electrical line etc, if any along the proposed route Propsoed	N/A	
	Shoulder /4/6/8 lanes	4 Lane.	
1.13	Service road existing or not	No. Service Road	
	If yes then which side		
	(a)left side from center line	N/A	
	(b) Right side from center line	N/A	
1.14	Proposed Service road		
	(a)left side from center line	N/A	
	(b)Right side from center line	N/A	
1.15	Whether proposal to lay overhead Electrical line is after the services Road or between the service road and main carriage way or crossing the National Highway carriageway	Over Head Electrical Transmission Line Crossing the Bypass of NH-91	
1.16	The permission Of Laying overhead Electrical line shall be considered for approval /rejection based on the minisrty circulars relevent codes . Circulars mentioned as above.		

प्रेम प्रकाश राय/Prem Prakash Rai  
महा प्रबन्धक/General Manager  
पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लि.  
Power Grid Corporation of India Ltd.



1.17	If crossing of the road involved	Yes	
	A) Is it on line normal to NH And Provide length of crossing span	237 mtr	
	B) Structure ( Tower tension tower , pole for HT line only ) For crossing shall not be to near to the existing structure of National Highway.	Distance more than 89 mtr & 148 mtr from centre of road	
	i) Type of Existing / Proposed structure for National Highway	HT of Tower 52.605 mtr in both side .	
	ii) What is the distance of tower , pole and tension towers from the existing from the existing / proposed structure of National Highway.	Distance more than 89 mtr & 148 mtr from centre of road	
	c) The overhead lines and their support poles/ towers should ordinary be place 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 road way is the narrow than the minimum required according to standard or whwere the widening is propsoed for any reason.lateral clrance shall be reckoned with respect to ultimate road way .what is the horizantral clearance from the extreme edge of the road boundary .	N/A , Towers shall be constructed at a distance of 118 mtr(RS) & 59 mtr.(LS) from boundary towards increasing chainage direction	
	d) The overhead liens and their supporting ploes/towers should be ordinarily being placed at a minumam diatance of 5.0m from the nearest line of the avene tress	N/A , Towers shall be constructed at a distance of 118 mtr(RS) & 59 mtr.(LS) from boundary towards increasing chainage direction	
	e) in mountainous/hilly terrain the overhead liens should be errcted preferably on the valley side as far as away as practicable .In hilly region ,level of ground at suitable distance	Plain Terrain	
	bellow the outer counductor on either side from the center line is also to be noted and marked in the profile so as ensure required ground clearance underneath counductor and side clearance in swing conditions is the proposal in hilly area ? f)The horizantle clearance in respect of poles erected for the purpose of street lighting in urban situation shall be ac under	N/A	
	i) for the road with raised kerbs- minumem 300 mm from the edge of nearest kerb600mm being preferable	N/A	
	ii) for road without raised kerbs-at least 1.5 mm 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 tower voltage suspension/ tension tower with sitable extension shall be used	Yes , Tension Towers with Suitable extension shall be used.	
	i) The vertical clearance of the overhead lines crossing the road the road shall be reckonrd from the top of th ecrown of theroad taking into account the anticipated final top level due to future raising of road slave ,strengthening of pavement etc. l he 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 codesis 5613-1976(art IV and indian Electricity Rules1956as under/	20.1 mtr. Ground Clearance shall be taken jointly with NHAI after completion.	
	for electric power line carrying low voltage up to and including 650 voltas-600 mm	N/A	
	for electric power line carrying voltage exceeding 650 volts- 6500 mm	N/A	
	220 kv - 7015 mm	N/A	
	400 kv - 8840 mm	YES	
	800 kv - 15000 mm	N/A	
	Note: These are minimum requirment wher every local authority requirement is higner the same shall be proviedd.in case of HT line .road crossing the ground clearance at the road under maximum temperature and in still air shall be such an even with conductor bundle broken in adjacent span the ground clearance of the conductervfrom the road surface shall not be less than 15.00	Ground clearance from road surface to bottom conductor in 20.1 mtr.	

पी०पी० सिंह / P.P. SINGH

परियोजना निदेशक / Project Director

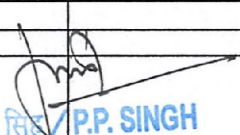
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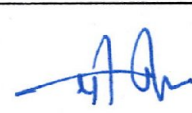
परियोजना कार्यान्वयन इकाई-जयपुर / Project Implementation Unit

प्रेम प्रकाश राय/Prem Prakash Rai  
महा प्रबंधक/General Manager  
पावर ग्रिड कारपोरेशन ऑफ इंडिया लि.  
Power Grid Corporation of India Ltd.



	What is the voltage of proposed line and clearance under maximum sag condition between lowest conductor of the proposed line and existing National Highway/Future developed National Highway	400 KV	
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 the concern agency.	Yes.	
2.2	Undertaking for renewal of bank guarantee if required	Yes.	
2.3	Confirming all standard conditaions as laid down in ministry circular no - NH IRC -32v1969 is : -III/P/20 Dated 08.04.1982 .indian	Yes.	
2.4	Shifting of over head Electrical line at their own cost as and when required by NHAI	Done by Powergrid	
2.5	Shifting of over head Electrical line at their own cost if require due to 4 lanning widening of National Highway	Done by Powergrid	
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 maintence.	Done by Powergrid	
2.7	Traffic Movement during laying of overhead electrical line to be managed by the applicant	Yes managed by Powergrid.	
2.8	if any claim is raised by the concessionaire then the same has to be the paid by the applicant	Yes paid by Powergrid.	
2.9	Prior approval of the NHAI shall be obtained before undertaking any work of installation , shifting or repairs ,or alterations to the over head	Yes.	
2.10	expenditure ,if any, incurred by NHAI for repairing any damage caused to the National I lighway by the laying ,Maintonance of the over hoad electrical line will be borne by the agency owing the line	Yes	
2.11	If NHAI consider it Necessary in future to move the utility line for any work of improvement or repairs to the road , it will be carried out of desired by NHAI At the cost of agency oning the utility line within a reasonable time ( not exceeding 60 days ) of the intimations givens.	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 not withstanding the permission granted within such time as will be stipulated but NHAI for futre six lanning or any other devolopment	Yes.	
2.13	The transmission line installation shall be carried out by trained and experienced personal and supervised by technically qualified persons competent to undertake such work.	Yes.	
2.14	The applicant ensures the safety of the highway traffic against the hazard of the high voltage liens during installation operation and	Yes.	
2.15	undertake for compliance with indian electricity rules and other authorities regulation - all over head liens shall comply with the requimments of the indian electricity act and rules made there under and regulations or specification as laid down by railways or railway	Yes.	
3	Other document and drawing to be furnished by the applicant	Yes.	
3.1	Method of laying of overhead electrical line	Yes.	
3.2	Draft licence agreement	Yes.	
3.3	Performance Bank Guarantee in favour of NHAI has to be obtained @Rs 100 /- per running meter (parallel to NH) and Rs1,00,000/- 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 area ,clearing the debris / making good the area , clearing the debris/ loose earth etc produced.	N/A	
3.4	Strip plan/Route Plan showing overhead electrical line Chainage, width of ROW, distance of propose 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	certifcate from the project directors.		


  
**पी.पी. सिंह / P.P. SINGH**  
 परियोजना निदेशक / Project Director  
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण / National Highways Authority of India  
 परियोजना कार्यान्वयन इकाई-उत्तरांचल / Project Implementation Unit -Uttarakhand

  
**प्रम प्रकाश राय / Prom Prakash Rai**  
 महा प्रबन्धक / General Manager  
 पावर ग्रिड कारपोरेशन ऑफ इण्डिया लि.  
 Power Grid Corporation of India Ltd.




4.1	certificated confirming that the proposal has been examined with respect to the structures and devolopment work considered at this locations 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 & traffic safety of the highway nor the likely future improvement such as widening of the carriageway, 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	N/A	
	b) In case feasibility is not available i do certtify that sufficint ROW Is available at site for accommodation proper six lanning	N/A	
5	if NH secation propsoed to be taken up by NHAI on BOT basic a clause is to be instead in the aggrementr .the permitted highway on which liense has bee granted.	N/A	
	Concession agree for up gradation of Aligarh - Palwal (44 km to 45 km) NH no 334D on build operate and transfer basic )and therefore the licence shall hounour the same.	N/A	
	Who will supervise the work of the laying overhead electrical line	Powergrid will supervise of laying work.	
	Who will sign the aggrement on behalf of overhaed electrical agency	General Manager, Power grid Corporation of India Limited.	
	Who will ensure that the defects in road portion after laying of Water Supply pipe line are corrected and if not	NA,As the proposal is for overhead EHV line crossing	
	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire.	Power Grid Corporation of India Limited	
	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)	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 then copy be enclosed	N/A	

FOR- POWERGRID/THDC

  
 प्रेम प्रकाश राय/Prem Prakash Rai  
 महा प्रबन्धक/General Manager  
 पावर ग्रिड कारपोरेशन ऑफ इण्डिया लि.  
 Power Grid Corporation of India Ltd.

FOR- NATIONAL HIGHWAY AUTHORITY OF INDIA.

  
 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