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
ई–मेल / E-mail : rowestup@nhai.org, rowestup@gmail.com

19001/1/RO-W-UP/NH-24/Ch. 59+420/132KV/1302 Dated: 11.04.2022

Invitation of Public Comments

Sub: Proposal for permission of overhead crossing of NH-24 existing (Hapur-Moradabad Road) at Ch. 59+420, Village-Simrauli, District-Hapur for construction of 132 KV D/C Sakoti-Hapur Transmission Line- reg.

The Project Manager/Electrical M/s DFCCIL, Meerut has submitted the proposal through PD, PIU-Moradabad for permission of overhead crossing of SH-24 existing (Hapur-Moradabad Road) at Ch. 59+420, Village-Simrauli, District-Hapur for construction of 132 KV D/C Sakoti-Hapur Transmission Line in Hapur District in the State of Uttar Pradesh for approval of the Competent Authority.

2. From the submitted proposal, it is seen from the checklist/drawings that the structures (Transmission Towers) on either side are being erected at distance of 92m & 52m respectively from either side of NH boundary. Crossing span of the structure is 230m. Further, the minimum vertical clearance of 14.483m between the lowest conductor of the proposed line and NH carriageway shall be maintained. However, the proposed transmission line shall be crossing the National Highway at 79^0 angle.

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 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-UP (West).

11/04/22

Encl: As above.

(Anuj Kumar Singh)
DGM (Tech.)
For RO-UP (West)

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 Project Manager/Electrical M/s DFCCIL, Meerut for information.
4. The Project Director, NHAI, PIU-Moradabad for information.

CHECK-LIST

Project Director for processing the proposal of laying overhead electrical line crossing National Highway vested with NHAI

Circular/Codes -
Ministry circular No. NH-III/P/20/77 Dated 08.04.1982
Indian Electricity Act 1910
Indian Electricity Rule 1956
IRC:32-1969
IS:5613-1976 Part I to IV

For getting the approval for laying of overhead electrical line along the National Highway vested with NHAI

Sr. No.	Item	Information/ Status	Remarks
1	General Information	**132KV D/C Sakoti-Hapur TL**	
1.1	Name and Address of the Applicant/ Agency	Power Grid Corporation of India Ltd., Mataur,	
1.2	National Highway Number	**Existing NH-24 (Hapur-Moradabad)**	
1.3	State	Uttar Pradesh	
1.4	Location	Village- Simrauli, District -Hapur	
1.5	Chainage in km	59+420	
1.6	Length in Meters	Span -230 M	
1.7	Width of available ROW	27.00 Mtrs	
	(a) Left side from center line towards increasing Chainage/ km direction	13.50 Mtrs	
	(b) Right side from center line towards increasing Chainage/ km direction	13.50 Mtrs	
1.8	Proposal of crossing Power Line		
	(a) Left side from center line towards increasing Chainage/ km direction	As Above	
	(b) Right side from center line towards increasing Chainage/ km direction	As Above	
1.9	Proposal of acquire		
	(a) Left side from center line	Not Applicable	
	(b) Right side from center line	Not Applicable	
1.10	Whether proposal is in the same side where land is not be acquired	Not Applicable	
	If not then where to lay the cable	Not Applicable	
1.11	Details of already laid services, if any, along the proposed route	Not Applicable	
1.12	Number of exsiting lanes(2/4/6/8 lanes)	6	
1.13	Proposed number of Lanes(2 lane with paved shoulders/4/6/8 lanes)	Already 6 lane	
1.14	Service road existing or not		
	If yes , then which side		
	(a) Left side from center line	Not Applicable	
	(b) Right side from center line	Not Applicable	
1.15	Proposed service road		
	(a) Left side from center line	Not Applicable	
	(b) Right side from center line	Not Applicable	
1.16	Whether proposal to lay crossing power cable is after the service road or between the service road and main carriageway	Overhead crossing Proposed tower Beyond ROW	
1.17	Whether carrying of crossing power cable has been proposed on highway bridge. If yes, then mention the methodology proposed for the same	Not Applicable	
1.18	Ministry circulars and relevant codes mentioned above		

Gurwinder Singh

परियोजना निदेशक / Project Director
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highway Authority of India
मुरादाबाद / Moradabad

अनिल कुमार बंसल / Anil Kumar Bansal
उप महाप्रबंधक (टेलि-कॉम) / DGM (TL-Com)
पावरग्रिड, मेरठ / POWERGRID, MEERUT

Sr. No.	Item	Information/ Status	Remarks
1.19	1 - if Crossing of the road involved: a) Crossing angle for NH and provide length along the highway b) Structure (Tower, pole and for HT line only tension tower) for crossing shall not be too near the existing structure on the national highway. The minimum distance being 15 meters. i) Type of existing / proposed structure of national highway ii) What is the distance of tower pole and tension tower lying from the existing / proposed structure for National highway	Yes a) 79° 00' 00" and Span-230 meters b) i) Nil ii) Distance from centre of NH is 135M and 95 M.	
	c) The overhead lines and their supporting poles/ towers should ordinarily be placed at the extreme age of the road land boundary. In any case these shall be at least 10 mtrs. away from the age of existing shoulder of extreme traffic lane. Where the existing road way is narrower thert lhe minimum according or standard or where the widening is proposed for any reason the lateral clearance shall be reckoned with respect to ultimgte road way. What ts the horizontal clearance from the extreme edge of the road land huundary?	Not Applicable **Horizontal clearance from Centre line of NH is 135M (Tower No. AP 82/0) & 95 M (Tower No. AP 83/0)**	
	(d) overhead lines and their supporting poles/ towers should originally be placed at the minimum distance of 5.0 m from the nearest line of avenue trees Whai is the horizontal clearance from the nearesl line of avenue free?	NA (Over Head Transmission line Crossing)	
	(e) In mountain / hilly terrain the overhead line should be erected preferably only the valley side as far away as practicable.in hilly reason label of ground at the suitable distance below the outer conducter on either side from the central line is also to be noted and marked in profile so Be to ensured required ground clearance underneath conductor and side clearance.	Plain terrain	
	(f) The horizontal clearance in respect of poles erected from the purpose of street lightning in urban situation shall be as under.	Not Applicable	
	i) For road with Minimum 300 mm from Raised kerbs 300 from the aged of nearest Kerb preferably 600 mm	Not Applicable	
	i i)For road with At least 1.5 m from the edge of the carriage way Raised kerbs subject to minimum 5.0 from the central line of carriage way.	Not Applicable	
	(g) The pylons of HT linns 8long crossing the road shall be located outside the NH land	Not Applicable	

Project Director
राष्ट्रीय राजमार्ग प्राधिकरण
National Highway Authority of India
मुरादाबाद /Moradabad

अनिल कुमार बंसल / Anil Kumar Bansal
उप महाप्रबन्धक (पारेषण-निर्माण) / DGM (TL-Const.)
पावरग्रिड, मेरठ / POWERGRID, MEERUT

Sr. No.	Item	Information/ Status	Remarks
	(h) for crossing the line of same voltage or lower voltage, suspension / tension tower with suitable extensions shall be used.	Not Applicable	
	(i) The vertical clearance of the overhead lines cussing the road shall be reckoned from the top of the crown of the road taking in to account the anticipated final top level due to future raising of road level strengthening of pavement etc. the actual ground clearance of high tension line for voltage above 650 volte varies depending upon the voltage transmitted and these are stipulated in Indian standard codes is 56130-1976 part i to iv and Indian electricity rules 1956 as under.	Actual ground clearance will be taken jointly by POWERGRID and NHAI	
2	Affidavit / under taking to be obtained from (to be furnished by the applicant)	Yes	
2.1	Not to damage to other utility if damage then to pay the losses either to NHAI or to the concerned agency.	Yes	
2.2	Undertaking for renewal of bank guarantee if required	Not Applicable	
2.3	Confirming all standard condition as laid down in ministry circular no-NH- III/P/20/77 dated 08.04. 1982 Indian electricity act 1910 Indian electricity rules 1956 IRC:32-1969, IS:5613-1976 part I to IV of NHAI).	Yes	
2.4	Shifting of overhead electrical line as an when required by NHAI at their own cost.	Yes	
2.5	Shifting of overhead electrical line at their own cost as an when required due to 4 laning / widening by NHAI at their own cost.	Yes	
2.6	Indemnity against all damage and claims whatsoever kind that may to be NHAI or to any third party in fhe row during installation operation and maintenance	Yes	
2.7	Traffic movement during laying of OFC/cable to be managed by the applicant	Yes	
2.8	If any claim is raised by the concessionaire then the same has to be paid by the applicant .	Yes	
2.9	Prior approval of the NH shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to be crossing power cable/ any other utility located in the National Highway right-of-ways	Yes	
2.10	Expenditure, if any, incurred by NH division for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the crossing power cable be borne by the applicant agency owning the line	yes	

Project Director
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highway Authority of India
मुरादाबाद /Moradabad

अनिल कुमार बंसल / Anil Kumar Bansal
उप महाप्रबन्धक (पारेषण-निर्माण) / DGM (TL-Const.)
NHAI Check List पावरग्रिड, मेरठ / POWERGRID, MEERUT

AP82-AP83

Sr. No.	Item	Information/ Status	Remarks
2.11	If the NH division considers it necessary in future to move the utility line for any work of improvement or repaires 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: i) Laying of overhead electrical wil) not have any deleterious effects on any of the bridge components and roadway safety of traffic. ii) For 4/6 laning "**We do undertake that I will relocate service road/ approach road, utilities fit my own cost notwithstanding the permission granted within such tile as will be stipulated by NHAI**" far future 6 laning or any other development	Yes	
2.13	The Transmissions 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	Applicant ensures the safety of the highway traffic against the hazard of the high voltage lines during installation operations and maintenance	Yes	
2.15	Undertake the compliance with Indian Electricity rules and other authorities regulations for all overhead lines shall comply with the requirement of the Indian Electricity act and rules made their under and the regulation or specificaiian as laid down by NHAI	Yes	
	Other documents and drawing to be furnished by the applicant.	Yes	
3.1	Methodology for laying of overhead electric line	Yes	
3.2	Draft licence agreement	Yes	
3.3	Pertormance bank guarantee in favor of NHAI has to be obtain at the Rs 100/-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 insuring making good the area,clearing debris/Tonse earth etc. produced in the right of way. No payment shall be payable by the NHAI to the licence for clearing debris/loose earth.	Yes	
3.4	Strip plan /route plan showing overhead electrical line,!chainage with of ROW, distance of proposed structure (tower pole and fbr HT line only tension towers) from the edge of ROW important milestone intersection cross drainage works any other structure existing of proposed etc.	Yes	
4	**Certificate from project director**	Not Applicable	

परियोजना निदेशक/ Project Director
राष्ट्रीय राजमार्ग प्राधिकरण
National Highway Authority of India
मुरादाबाद/Moradabad

अनिल कुमार बंसल / Anil Kumar Bansal
उप महाप्रबन्धक (प्रचालन-निर्माण) / DGM (TL-Const.)
पावरग्रिड, मेरठ / POWERGRID, MEERUT

Sr. No.	Item	Information/ Status	Remarks
2.11	If the NH division considers it necessary in future to move the utility line for any work of improvement or repaires 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: i) Laying of overhead electrical wil) not have any deleterious effects on any of the bridge components and roadway safety of traffic. ii) For 4/6 laning "**We do undertake that I will relocate service road/ approach road, utilities fit my own cost notwithstanding the permission granted within such tile as will be stipulated by NHAI**" far future 6 laning or any other development	Yes	
2.13	The Transmissions 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	Applicant ensures the safety of the highway traffic against the hazard of the high voltage lines during installation operations and maintenance	Yes	
2.15	Undertake the compliance with Indian Electricity rules and other authorities regulations for all overhead lines shall comply with the requirement of the Indian Electricity act and rules made their under and the regulation or specificaiian as laid down by NHAI	Yes	
	Other documents and drawing to be furnished by the applicant.	Yes	
3.1	Methodology for laying of overhead electric line	Yes	
3.2	Draft licence agreement	Yes	
3.3	Pertormance bank guarantee in favor of NHAI has to be obtain at the Rs 100/-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 insuring making good the area,clearing debris/Tonse earth etc. produced in the right of way. No payment shall be payable by the NHAI to the licence for clearing debris/loose earth.	Yes	
3.4	Strip plan /route plan showing overhead electrical line,!chainage with of ROW, distance of proposed structure (tower pole and fbr HT line only tension towers) from the edge of ROW important milestone intersection cross drainage works any other structure existing of proposed etc.	Yes	
4	**Certificate from project director**	Not Applicable	

परियोजना निदेशक/ Project Director
राष्ट्रीय राजमार्ग प्राधिकरण
National Highway Authority of India
मुरादाबाद /Moradabad

अनिल कुमार बंसल / Anil Kumar Bansal
उप महाप्रबन्धक (परियोजना-निर्माण) / DGM (TL-Const.)
पावरग्रिड, मेरठ / POWERGRID, MEERUT

AP82-AP83

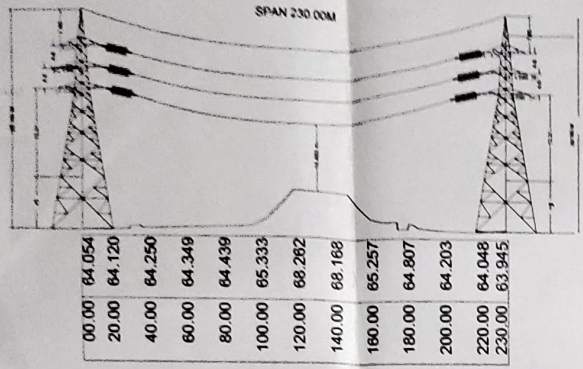
Sr. No.	Item	Information/ Status	Remarks
4.1	Certificate for confirming that the proposal has been examined with respect to the structures and developmental work considered at this location and compliance of the standard conditions issued vide ministry circular no. NH- III/P/20/77 dated 08.04. 1982 indian electricity Act 1910 Indian Electricity rules 1 956 [RC : 32-5613-1976 part i to iv of (NHAI) and NHAI guideline.	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 unresonable costly and the installation of electric line within ROW will not adversely affect the design, stability and traffic saftey of the highway nor the likely future improvement such as widening of the carriage way easing of kerb ect.	Not Applicable	
	ii) For 6 laning a) Where feasibility is available "I **do certify that there will no hindrance to propose 6 laning based on the feasibility report considering proposed structures at the said location.**" b) In case feasibility report is not available " **I do certify that sufficient ROW Is Available at site for accommodation of six laning.**"	Not Applicable	
5	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 license has been granted the right to lay overhead electrical line also been granted as a righf of way to the concessionaire under the concession agreement for up gradation of.	Not Applicable	
6	Who Will supervise the work of laying of overhead electrical line	Power Grid Corporation of India Limited	
7	Who will the sign the agreement on behalf of overhead electrical line agency	DFCCIL	
8	Who will ensure that the defect in road portion after laying of overhead electrical arc corrected and if not corrected that what action will be taken.	Power Grid Corporation of India Limited	
9	Who will pay the claim for damages done/disruption in working of concessionaire if asked by the concessionaire.	DFCCIL	
10	A cerificate from PD that he will enter the proposed permission in register of record of the permission in the prescribed Performa (copy enclosed)	Enclosed/ NHAI	
11	If any previous approval for laying of overhead electrical line then photo copy of register of records of permission accord as maintained by PD may he enclosed.	No	

परियोजना निदेशक/Project Director
...ीय राजमार्ग प्राधिकरण
...ghway Authority of India
...बाद /Moradabad

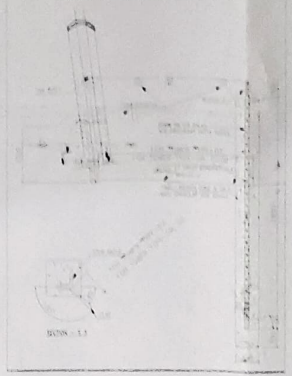
अनिल कुमार बंसल / Anil Kumar Bansal
उप महाप्रबंधक (पारेषण-निर्माण) / DGM (TL-Const.)
पावरग्रिड, मेरठ / POWERGRID, MEERUT

LOCATION
AP-820
TOWER TYPE
DD+9m

LOCATION
AP-830
TOWER TYPE
DD+9m



EARTHING DRAWING



NATIONAL HIGHWAY CROSSING PRAPOSAL

132kV D/C JARAUDA NARA TSS(RAILWAY) TO HAPUR DETOUR TSS (DFCC)

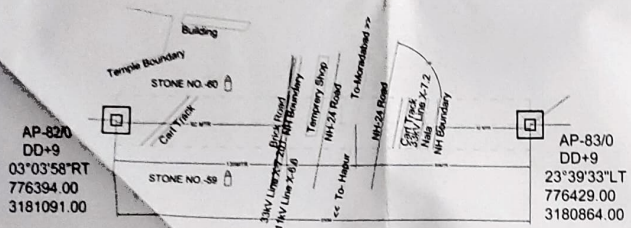
Tower Spotting Data

01) Conductor	ACSR PANTHER
02) Area	261.5 Sq mm
03) Unit Wt	0.976 Kg/Mtr
04) Diameter	21.00 MM
05) UTS (Kg)	9146 Kg
06) Normal Span (Ruling)	380.00 Mtr
06) Max. Sag 75° (At 380 Mtr.)	10.478 Mtr
07) Ground Clearance	6.1 Mtr
07) Sag Error	0.42 Mtr
07) Modulus of Elasticity	7800 Kg/sqmm
07) Coeff. of linear Expansion	0.0000193 per deg C
7) Max Tension at 75°C	1682 Kg
07) Min Tension at 0°C	2375 Kg

CROSSING DETAILS

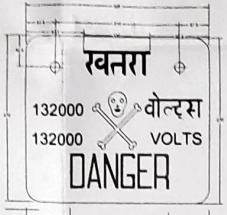
1. NAME & DETAILS OF THE NATIONAL HIGHWAY	NATIONAL HIGHWAY -24 Moradabad TO Hapur BOTTOM CONDUCTOR HEIGHT AT CROSSING 14.483 MTR
2. SITUATION OF THE CROSSING	BETWEEN AP 82 & AP 83 FROM AP 82 : 135Mtr. FROM AP 83 : 95Mtr. CH-59+420
3. SPAN AT THE CROSSING & ALSO THOSE ON EITHER SIDE OF THE CROSSING	230Mtr. PRECEDING SPAN : 230Mtr. SUCCEDING SPAN : 270Mtr.
4. ANGLE OF CROSSING	CROSSING ENGLE 79°
5. STRUCTURE USED TO CROSS THE NATIONAL HIGHWAY-709AD AND, ITS DEVIATION ANGLE	AP 82 : DD+9 AP 83 : DD+9 AP 82 : 03°03'58"RT AP 83 :23°39'33"LT
6. CONDUCTOR USED TO CROSS THE POWER LINE AND ITS DETAILS	ACSR PANTHER Wt. OF 0.976 Kg/Mtr, OVERALL DIAMETER 21.00 MM, UTS 9146 Kg
7. CLEARANCE UNDER MAXIMUM SEG CONDITIONS BETWEEN LOWEST CONDUCTOR OF THE PROPOSED LINE & NATIONAL HIGHWAY	14.483 Mtr.

CLIENT : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED



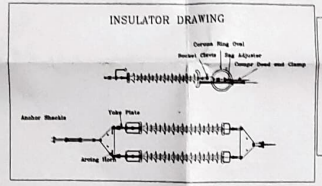
AP-82/0
DD+9
03°03'58"RT
776394.00
3181091.00

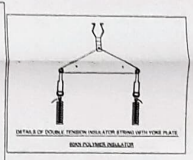
AP-83/0
DD+9
23°39'33"LT
776429.00
3180864.00

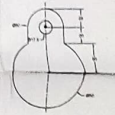


DANGER PLATE
NOT TO SCALE

NUMBER PLATE







PHASE PLATE
NOT TO SCALE

EXECUTION :-	POWER GRID CORPORATION OF INDIA LIMITED			
NAME OF LINE :-	132kV D/C JARAUDA NARA TSS(RAILWAY) TO HAPUR DETOUR TSS (DFCC)			
DRG. TITLE :-	NATIONAL HIGHWAY CROSSING PROPOSAL			
FOR EPC INFRA		FOR POWER GRID CORPORATION OF INDIA LIMITED		
SURVEYOR	PROJECT MANAGER	JE	DCM	

FOR NATIONAL HIGHWAY

FOR DFCCIL