



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

rowestup@gmail.com

वेबसाइट / Website : www.nhai.gov.in

19001/1/RO-W-UP/NH-24/73.500-73.600/400KV/608

Dated: 05.02.2021

Invitation of Public Comments

Sub: Proposal for permission for Overhead National Highway (NH-24 Crossing of 400 KV D/C Shamli-Aligarh Transmission Line) between km. 73+500 to km. 73+600 (Exact location 73+550 km)- reg.

The Executive Engineer, Electricity Transmission Division, Hapur has submitted the proposal for permission for Overhead crossing of National Highway (NH-24 Crossing of 400 KV D/C Shamli-Aligarh Transmission Line) between km. 73+500 to km. 73+600 (Exact location 73+550 km).

2. From the submitted proposal, it is seen that structures (Transmission Towers) on either side are being erected at distance of 92m & 90m respectively from either side of NH boundary. Crossing span of the structure is 242m. Further, the minimum vertical clearance of 27.60m 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 90° degree.

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).

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.


(Anuj Kumar Singh)
Manager (T)
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 Executive Engineer, Electricity Transmission Division, Hapur for information.
4. The Project Director, NHAI, PIU-Moradabad 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**FOR NH-24 (BY PASS) ROAD CROSSING BY 400 KV D/C SHAMLI-ALIGARH TRANSMISSION LINE.****Name of Transmission Line : 400 KV D/C SHAMLI-ALIGARH TRANSMISSION LINE.**

SL NO.	DESCRIPTION	DETAILS
1	NATIONAL HIGHWAY NO.	NH-24 (BY PASS) (HAPUR - MORADABAD)
2	CROSSING LINE NAME	400 KV D/C SHAMLI - ALIGARH TRANSMISSION LINE.
3	CROSSING SPAN	242 M
4	SYSTEM OF SUPPLY (e.i VOLTAGE, FREQUENCY, NO. OF PHASE, WHETHER NEUTRAL IS EARTHED OR NOT)	400 KV, 6 PHASE DOUBLE CIRCUIT LINE WITH ONE OPGW & ONE EARTH WIRE
5	POSITION OF TOWER	Tower Location. AP-168/0 DD+18 Tower Location. AP-168X/0 DD+18
6	NORMAL SPAN AT MOOSE CONDUCTOR	400 m
7	MAXIMUM SAG AT NORMAL SPAN	12.870 m
8	CROSSING SPAN	✓ 242M
9	PRECEEDING SPAN WITH LOC	LOC AP - 167Y ,SPAN = 260 M
10	HEIGHT OF TOWER STRUCTURE ABOVE GROUND AND BELOW SEPERATELY AND DETAILS OF FOUNDATION	Angle Tower Location No. AP-168; Tower type - DD+18 m ; Heght above GL=64.150 m ; Foundation depth below GL-3.00M. Angle Tower Location No. AP-168X ; Tower type - DD+18 m ; Heght above GL=64.150 m ; Foundation depth below GL-3.00M.
11	SUCCEEDING SPAN WITH LOCATION.	LOC AP-168Y, SPAN = 415 M
12	MAXIMUM SAG AT NORMAL SPAN FOR MOOSE CONDUCTOR AT 85 degree C	12.870 m
13	CLEARANCE OVER ROAD	
14	HEIGHT OF LOWER CONDUCTOR FROM GROUND LEVEL AT TOWER	39.86 meter
15	HEIGHT OF LOWER CONDUCTOR FROM LEVEL OF ROAD AT CROSSING	✓ 27.60 M
16	ANGLE OF ROAD CROSSING	✓ 90 Degree
17	DISTANCE FROM NH BOUNDARY FROM CENTRE OF TOWER	FROM AP-168 DISTANCE = 92 m ✓ FROM AP-168X DISTANCE = 90m ✓
18	PRERPENDICULAR DISTANCE FROM CENTRE OF TOWER TO CENTRE OF ROAD	FROM AP-168 PERPENDICULAR DISTANCE = 122 m FROM AP-168X PERPENDICULAR DISTANCE = 120 m
19	ANTICLIMBING DEVICE	AT FIRST BELT LEVEL DRG SHOWN IN PROPOSAL
20	FOUNDATION TYPE	FS TYPE FDN
21	NO. OF STAY REQUIRED	NONE (SELF SUPPORTING TOWER)
22	MIN FACTOR OF SAFETY	2
23	SIZE OF POWER CONDUCTOR	Conductor - ACSR MOOSE Conductor dia= 31.77 MM; Cond.weight=2.004 kg/m
24	SIZE OF OPGW	OPGW - 48 FIBRE, UNIT WT= 0.583 Kg/meter
25	TWO LEGS OF TOWER EARTHED	EARTHING IN TWO DIAGONAL LEGS
26	PLAIN PAPER DIAGRAM	GROUND PROFILE ENCLOSED
27	EARTHING	PIPE TYPE EARTHING



Sub Divisional Officer
U.P.P.T.C.L.
Elect. Trans. Sub-Division-1
S/S Simbhaoli, Hapur

Executive Engineer
Electy Transmission Division
Hapur

NH - 24 (BY PASS) CROSSING

The following details are required for crossing.

- 1 Name of line : 400KV D/C Shamli - Aligarh Transmission Line
- 2 Road Crossing Type : NH-24 BY PASS
- 3 Crossing Span : 242 Mtr.
(Crossing between Ch No. 73+500 -73+600 KM, Exact Crossing Point - 73+550 KM)

- 4 NH Crossing proposed location no/tower no, tower height, tower distance from the crossing Transmission Line required.

Location no/type of proposed tower	Hight of the proposed tower.	Distance from the NH Boundary (Approx)
AP - 168/0	64.15 Mtr.	92.00 Mtr.
AP - 168X/0	64.15 Mtr.	90.00 Mtr.

- 5 Type of foundation proposed of the tower : Raft Foundation.

- 6 NH crossing place : NH-24 (By Pass) crossing in between 73 - 74 KM Stone of Hapur - Moradabad NH Section (Kucheswar Road & Simbhaoli Village).

- 7 GPS co-ordinate of proposed crossing tower.

Location No.	GPS Co-ordinates.
AP - 168/0	788492.66 E, 3183516.00 N
AP - 168X/0	788422.27 E 3183744.46 N

Anshu

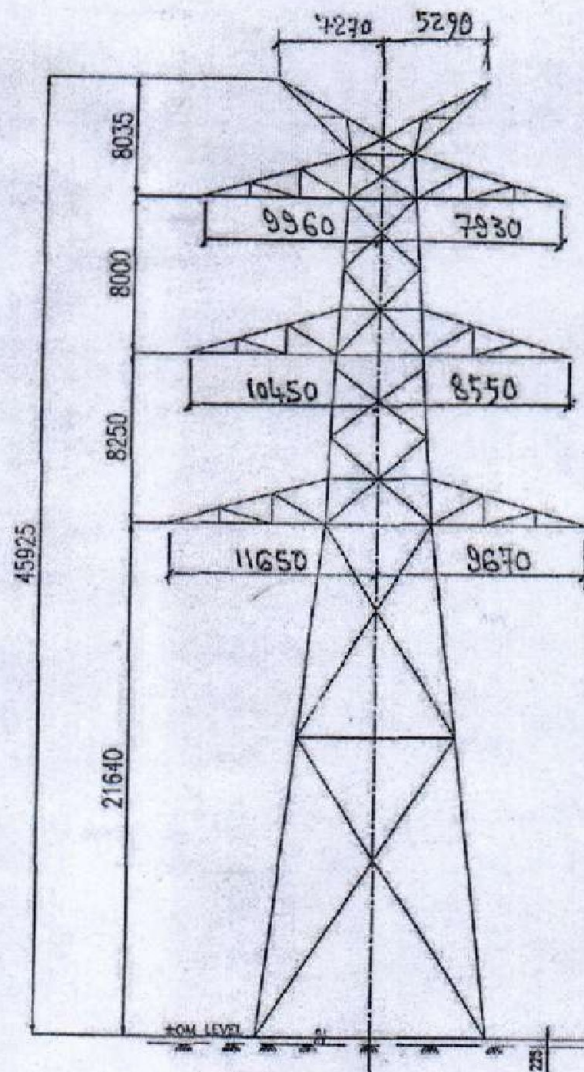


[Signature]

Sub Divisional Officer
U.P.P.T.C.L.
Elect. Trans. Sub-Division, I
20 K.V. S/S Simbhaoli, Hapur

[Signature]

Executive Engineer
Electy Transmission Division
Hapur



KEY DIAGRAM

"DD" TYPE TOWER

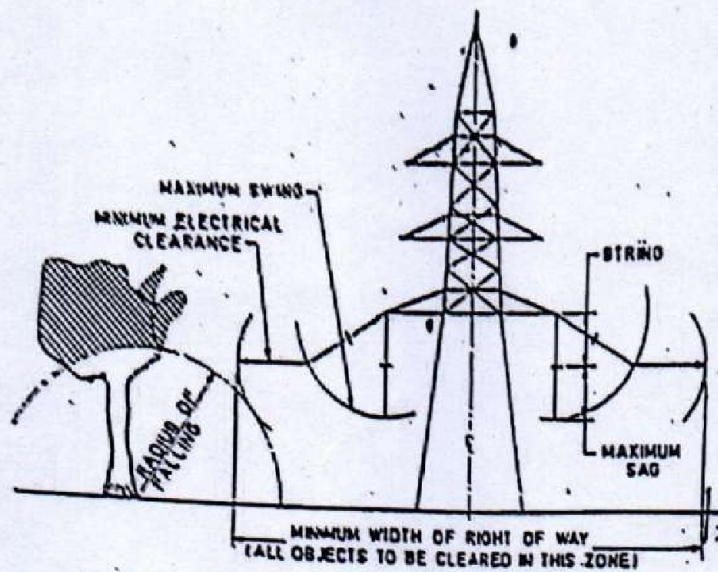
400KV D/C T.L.

Anandji:



Sub Divisional Officer
U.P.T.C.L.
Elect. Trans. Sub-Division: I
V. S/S Simbhaoli, Hapur

Executive Engineer
Electricity Transmission Division
Hapur



NOTE - Portion of tree falling within clearance zone to be lopped or trimmed.
 FIG. 1 LINE CLEARANCE (RIGHT-OF-WAY) REQUIREMENTS

Guidelines of forest/environmental rules shall be followed to avoid excessive tree cutting i.e. all the trees should be cut from ROUTE level in the 3 meter corridor below each line Conductor/Earthwire. In the balance corridor, Trees branches are only to be lopped to attain the specified clearance as per Table no 1.

TABLE NO. 1
CLEARANCE FOR RIGHT OF WAY

TRANSMISSION VOLTAGE IN KV	MINIMUM RIGHT OF WAY (IN MTRS)
132	27
220	35
400	52 (S/C)
400	48 (D/C)
765	64 (S/C)

4.1.2. Electrical Clearance

In case of line crossings, clearance between lowest conductor of line and top conductor of the other line shall be adequate as follows:

