



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.

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19001/1/RO-W-UP/NH-709AD/47.430-47.380/132KV/671.

Dated: 18.03.2021

Invitation of Public Comments

Sub: Proposal for Overhead Transmission Line Crossing of 132KV S/C Kaniyan-Shamli (400) Transmission Line between km. 47+430 to km 47+380 of NH-709AD.

The Executive Engineer, Electricity Transmission Division, UPPTCL, Shamli has submitted the proposal for the permission of Overhead Transmission Line Crossing of 132KV S/C Kaniyan-Shamli (400) Transmission Line between km. 47+430 to km 47+380 of NH-709AD in the State of Uttar Pradesh.

2. From the submitted proposal, it is seen that structures (Transmission Towers) on either side are being erected at distance of 80m & 97m respectively from either side of NH boundary. Crossing span of the structure is 237m. Further, the minimum vertical clearance of 21.5m 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° 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 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, UPPTCL, Shamli for information.
4. The Project Director, NHAI, PIU-Baghat for information.

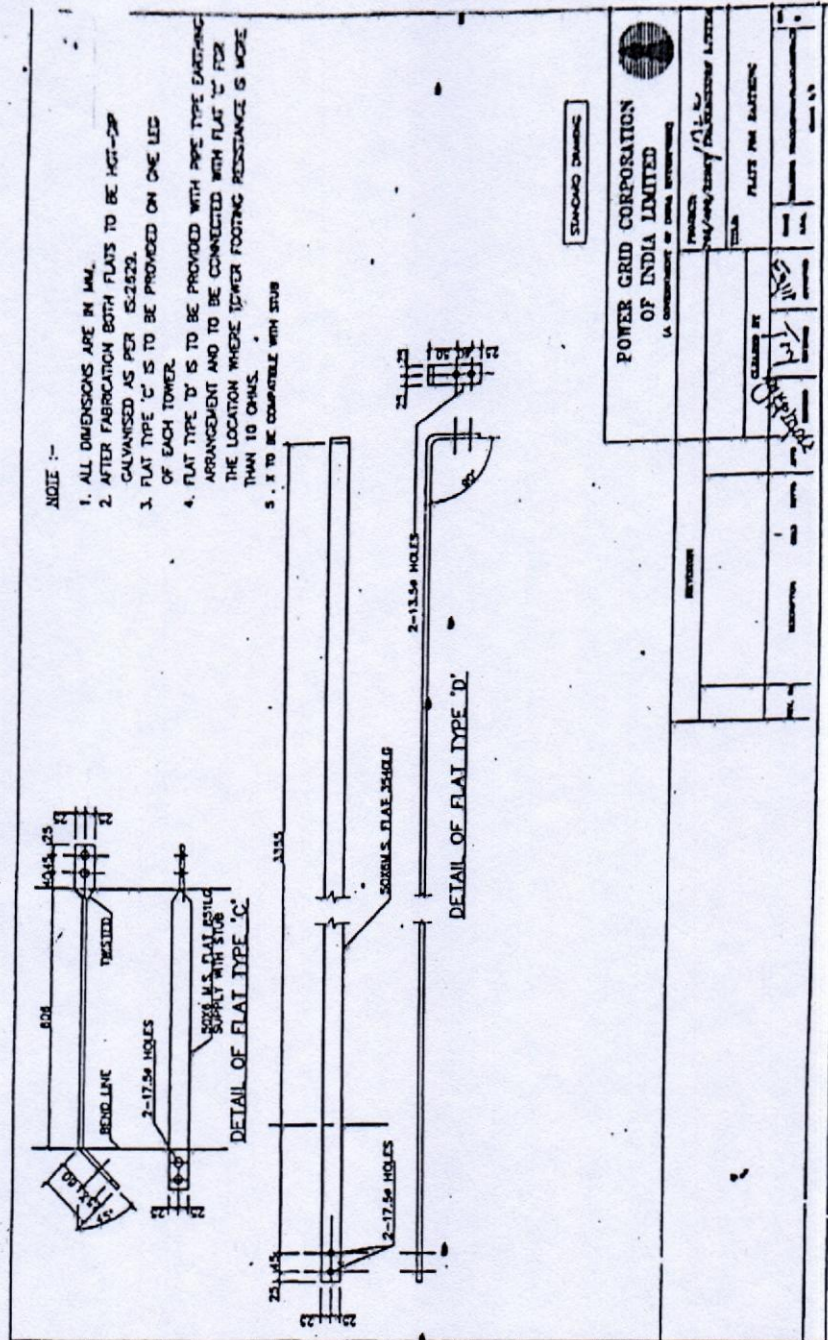
"Building a nation, not just Roads."

CHECK LIST**FOR NH-709AD (Shamli-Muzaffernagar Section) ROAD CROSSING BY 132 KV S/C Kaniyan-Shamli(400) TRANSMISSION LINE.****Name of Transmission Line : 132 KV S/C Kaniyan-Shamli(400) LINE.**

SL NO.	DESCRIPTION	DETAILS
1	NATIONAL HIGHWAY NO.	NH-709AD (Shamli - Muzaffernagar)
2	CROSSING LINE NAME	132KV S/C KANIYAN-SHAMLI (400) TRANSMISSION LINE.
3	CROSSING SPAN	237 M
4	SYSTEM OF SUPPLY (e.i VOLTAGE, FREQUENCY, NO. OF PHASE, WHETHER NEUTRAL IS EARTHED OR NOT)	132KV, 3 PHASE SINGLE CIRCUIT LINE WITH ONE EARTH WIRE
5	POSITION OF TOWER	Tower Location.AP-11 DC+10 Tower Location. AP-12 DC+10
6	NORMAL SPAN AT PANTHER CONDUCTOR	380 m
7	MAXIMUM SAG AT NORMAL SPAN	10.475 m
8	CROSSING SPAN	237 M
9	PRECEEDING SPAN WITH LOC	LOC NO - 10/1 ,SPAN = 203 M
10	HEIGHT OF TOWER STRUCTURE ABOVE GROUND AND BELOW SEPERATELY AND DETAILS OF FOUNDATION	Angle Tower Location No. AP-11; Tower type - DC+10 ; Height above GL=42.025 m ; Foundation Type-PS Angle Tower Location No. AP-12 ; Tower type - DD+10 m ; Height above GL=42.025 m ; Foundation type-PS
11	SUCCEEDING SPAN WITH LOCATION.	LOC NO 12/1 ,SPAN = 250 M
12	MAXIMUM SAG AT NORMAL SPAN FOR PANTHER CONDUCTOR AT 85 degree C	10.475 m
13	CLEARANCE OVER ROAD	21.5 M
14	HEIGHT OF LOWER CONDUCTOR FROM GROUND LEVEL AT TOWER	26.80 meter
15	HEIGHT OF LOWER CONDUCTOR FROM LEVEL OF ROAD AT CROSSING	21.5 M
16	ANGLE OF ROAD CROSSING	90 Degree
17	DISTANCE FROM NH BOUNDARY FROM CENTRE OF TOWER	FROM AP-11DISTANCE =80 m FROM AP-12 DISTANCE= 97 m
18	PRERPENDICULAR DISTANCE FROM CENTRE OF TOWER TO CENTRE OF ROAD	FROM AP-11 PERPENDICULAR DISTANCE =110 m FROM AP-12 PERPENDICULAR DISTANCE =127 m
19	ANTICLIMBING DEVICE	AT FIRST BELT LEVEL
20	FOUNDATION TYPE	PS TYPE FDN
21	NO. OF STAY REQUIRED	NONE (SELF SUPPORTING TOWER)
22	MIN FACTOR OF SAFETY	2
23	SIZE OF POWER CONDUCTOR	Conductor - ACSR PANTHER Conductor dia= 21 MM; Cond.weight=0.977 kg/m
24	SIZE OF OPGW	OPGW - 24 FIBRE, UNIT WT= 0.105 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


Executive Engineer
 Electy. Trans. Division
 Shamli


Sub-Divisional Officer
 Electy. Transmission S. Division
 Shamli



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MILITARY INTELLIGENCE/STATE/DOJ/DOA

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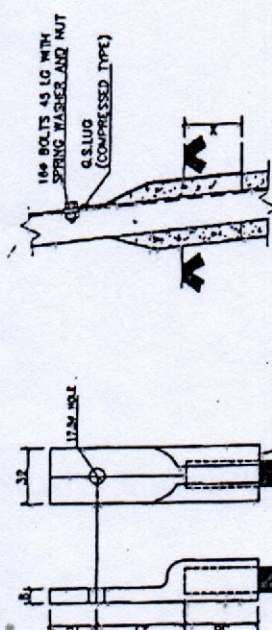
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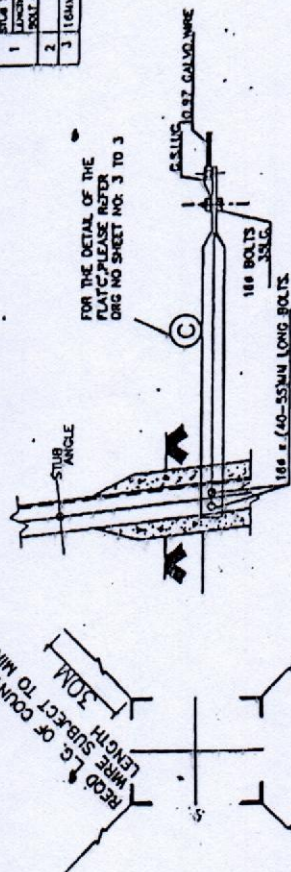
NOTES:-

1. ALL DIMENSIONS ARE IN MM.
2. 10.97MM GALVANISED WIRE WITH G.S. LUG FORCED AT ONE END AND FREE FOR A REQUIRED LENGTH OF COUNTER POSE WIRE
3. FOUR G.S LUG WILL BE REQUIRED PER TOWER
THREE LUGS WILL BE CONNECTED ON THREE LEADS AND
FOURTH LUGS WILL BE CONNECTED WITH FLAT TYPE "C"
PROVIDED FOR POPE TYPE EARTHING.
4. 10.97MM WIRE SHALL BE OUTSIDE COPPING.
5. ONE SET COMPRISING OF 4NOS OF REQUIRED LENGTH
OF COUNTER POSE WIRE
6. FOR SOIL RESISTIVITY LESS THAN 1500 OHM-METER, 4
LENGTHS OF 70M WIRE SHALL BE PROVIDED, AND FOR SOIL
RESISTIVITY GREATER THAN 1500 OHM-METER, A LENGTH
OF 70M WIRE SHALL BE PROVIDED.

S.NO.	Q.	SIZE	
1	SCALE FROM LENGTH - 10 CM TO 100 CM		QTY
	LENGTH OF 100	40	40
	SCALES (nos)		20
2	U-18 = 10 LG	-	1
3	16MM DIA 13MM THICK WASHERS		5



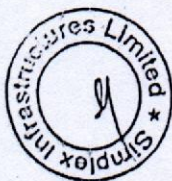
X - NOT LESS THAN 1000MM
LUG FITTING FOR
THREE LEGS (TYPICAL)



FOR THE DETAIL OF THE
FLAT, PLEASE REFER
ORG NO SHEET NO: 3 TO 3


LUG FITTING ON FOUTISH LEG

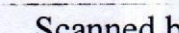
BASE OF TOWER

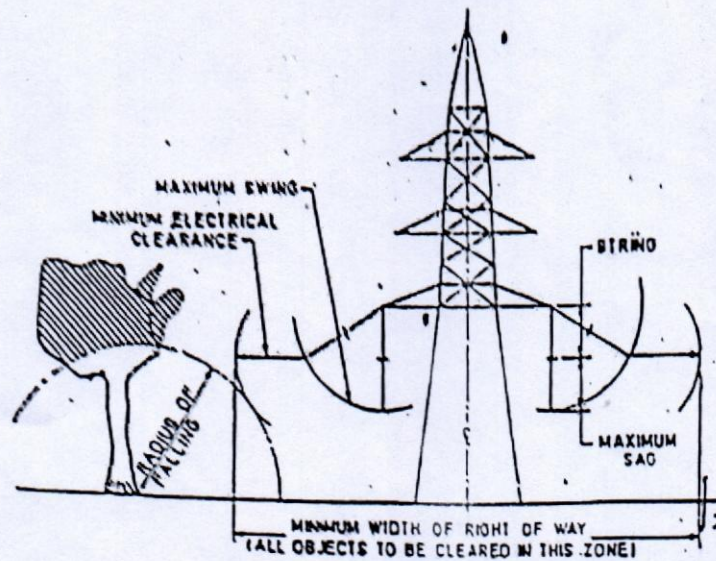


Super-intending Engineer
Electy 765 & 416 K.V. Trans. Division, D. J. N. Circle
U.P.P.T.C.L., 10th Floor, Shikha Bhabha Centre
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Executive Engineer
Electy. Trans. Division
Shamli


Sub Divisional Officer
Electy. Transmission Sub-Division
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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.

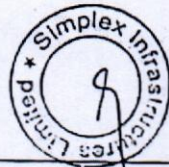
TABLE NO. 1

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:



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