



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)

19001/1/RO-W-UP/NH-119/Km.49-50/132KV/82

दूरभाष / Phone : 0522-4960291

टेलीफैक्स / Fax : 0522-4950680

ई-मेल / E-mail : rowestup@nhai.org

rowestup@gmail.com

वेबसाइट / Website : www.nhai.gov.in

Dated: 11.02.2020

Invitation of Public Comments

Sub: Request for the permission for crossing of 132KV Jansat-Ramraj Transmission DC Tower No. 52 & 53 grade HT cable between Km. 49+000 to Km. 50+000, on along NH-119 in District-Muzaffarnagar in the State of Uttar Pradesh - reg.

The Executive Engineer, Uttar Pradesh Power Transmission Corporation Ltd. has submitted the proposal for the permission for crossing of 132KV Jansat-Ramraj Transmission DC Tower No. 52 & 53 grade HT cable between Km. 49+000 to Km. 50+000, on along NH-119 in District- Muzaffarnagar in the State of Uttar Pradesh.

2. From the submitted proposal, it is seen that the height of both proposed structures (Transmission Towers) on which the proposed overhead line is hanging is 31.945m. The structures (Transmission Towers) on either side are being erected at distance of 50m & 39m respectively from either side of NH centre line. Further, the minimum clearance of 15m 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 61°14'32" 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.

Pankaj
11/2/20
(Pankaj Kumar)
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 Executive Engineer, UPPTCL, Meerut with request to submit Agreement/ License deed two (02) sets in original as per the format (Annex-I) appended along with the enclosure to Ministry's Guidelines dt. 22.11.2016 and drawing of transmission line in A0 size paper clearly mentioning all parameters/ dimensions of the proposed through proper channel.
4. The Project Director, NHAI, PIU-Meerut 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

Project Director for processing the Proposal of line overhead electrical line crossing National Highways vested with NHAI.

Circular/Codes:-

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 to IV

F.No. RW/NH-33044/29/2015/S&R(R) Dated 22/11/2016

For getting approval for layering of overhead electrical line along the National Highways NH-119 vested with NHAI.

For NH-119 over head crossing by 132 KV DC Jansath-Ramraj line.			
Sl. No.	Description	Details	
1	Applicant Address.	OFFICE OF THE EXECUTIVE ENGINEER Electricity Transmission Division-II U.P.Power Transmission Corporation Lt "Pareshan Bhawan", IInd Floor, 130-D, Victoria Park, Meerut-250001 Contact No- 9412756099, 0121-2663388	
2	E-mail ID of Appicant.	eeetdmrt2@gmail.com, eeetdmrt2@upptcl.org	
3	National Highway no.	119	
4	Crossing Name	Meerut-Bijnore.	
5	Crossing Chaninage	49. KM	
6	System of supply (i.e. Voltage) frequency, no. of phases, Whether neutral is earted or not.	132 KV, 50Hz, 2x3(DC)-Phase, Panther with one earth wire.	
7	Position of tower	AP 52 DC+0 Latitude 29°16'10.58" Longitude 77°59'16.21"	AP 53 DC+0 Latitude 29°16'05.35" Longitude 77°59'15.94"
8	Normal span at Panther conductor	250 m	
9	Maximum sag at normal span	07.4 m	
10	Crossing span	162 m	
11	Preceding span with loc	324 m	
12	Succeeding span with loc	346 m	
13	Height of structure above ground and below ground separately and detail of foundation.	Above Ground Level- 31.945 mtr. Below Ground level- 3.000 mtr.	
14	Sag of ACSR Panther conductor size aluminium: 30/3.00 & Steel: 7/3.00	Sag calculation enclosed.	
15	Clearance over road	16.2 m	
16	Height of lower conductor from ground level	14.4 m	
17	height of lower conductor from level of NH	15.00m 0.8 m	
18	Angle of road crossing	61°14'32"	
19	Distance from NH boundary from centre of tower	AP 52-31.72 m & AP 07-20.72 m	
20	perpendicular distance from centre of tower to centre of road	AP 52-50.00 m & AP 53-39.00 m	
21	Protection of assembly of line	Danger plate & Anti-climbing devices	
22	Foundation type	Partially Sub- merges.	
23	No. of stay required	Self supporting tower	
24	Min factor of safety	2	
25	Size of power conductor	261.5 Sq. mm	
26	Size of earth wire	58 Sq. mm	
27	Two legs of tower earthed	Pit-A	
28	Plain paper diagram	Profile enclosed	
29	Earthing	Pipe type earthing	

Project Director
National Highway Authority of India
PIU- Meerut

(Arvind Kumar)
Executive Engineer
Electricity Transmission Div - II
U.P.T.C.L
Meerut

U.P. POWER TRANSMISSION CORPORATION		
A	Sag calculation for Conductor	
	Where :W= Weight of per unit length of conductor	
	l= Span length in (m)	
	T= Tension Kg.	
	Weight of conductor =	0.974 Kg./m
	crossing span=	162 m
	Tension at 0°C =	4144.81 Kg.
	Tension at 85°C =	3022.04 Kg.
	Sag at 0° = $(w)^2/8T$	0.750 mtr.
	Sag at 85° = $(w)^2/8T$	1.03 mtr.

(Arvind Kumar)
Executive Engineer

Executive Engineer
Electricity Transmission Div - II
U.P.P.T.C.L
Meerut

Project Director
National Highway Authority of India
PIU- Meerut

Layout plan for NHAI
Crossing of 132 KV Jansath
-Ramrai line over NH-119
Chainage Number
49.445Km. Near Village
Putthi Ibrahimpur District-
Muzaffarnagar (U.P)

1 Km 50.000

Width of road 60 mtr

Bijnore



Tower number 53

ROW
crossing
length of
27 mtr.

39 Mtr.

Tower number 52

Center of
line

50 Mtr.

Span length: 162 mtr.

Scale: NTS



Center of road

(Abhishek Singh)
 Executive Engineer
 Electricity Transmission Division-II,
 UPTCL, Meerut

1 Km 49.000

Meerut
 NH-119