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
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19001/1/RO-W-UP/NH-119/Km.45-46/132KV/81

Dated: 11.02.2020

Invitation of Public Comments

Sub: Request for the permission for crossing of 132KV Jansat-Hastinapur line between Km. 45+000 to Km. 46+000, on along NH-119 in District-Meerut 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-Hastinapur line between Km. 45+000 to Km. 46+000, on along NH-119 in District-Meerut 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 253m & 45m respectively from either side of NH centre line. Further, the minimum clearance of 17m 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 $78^0 34' 17"$ 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."

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.

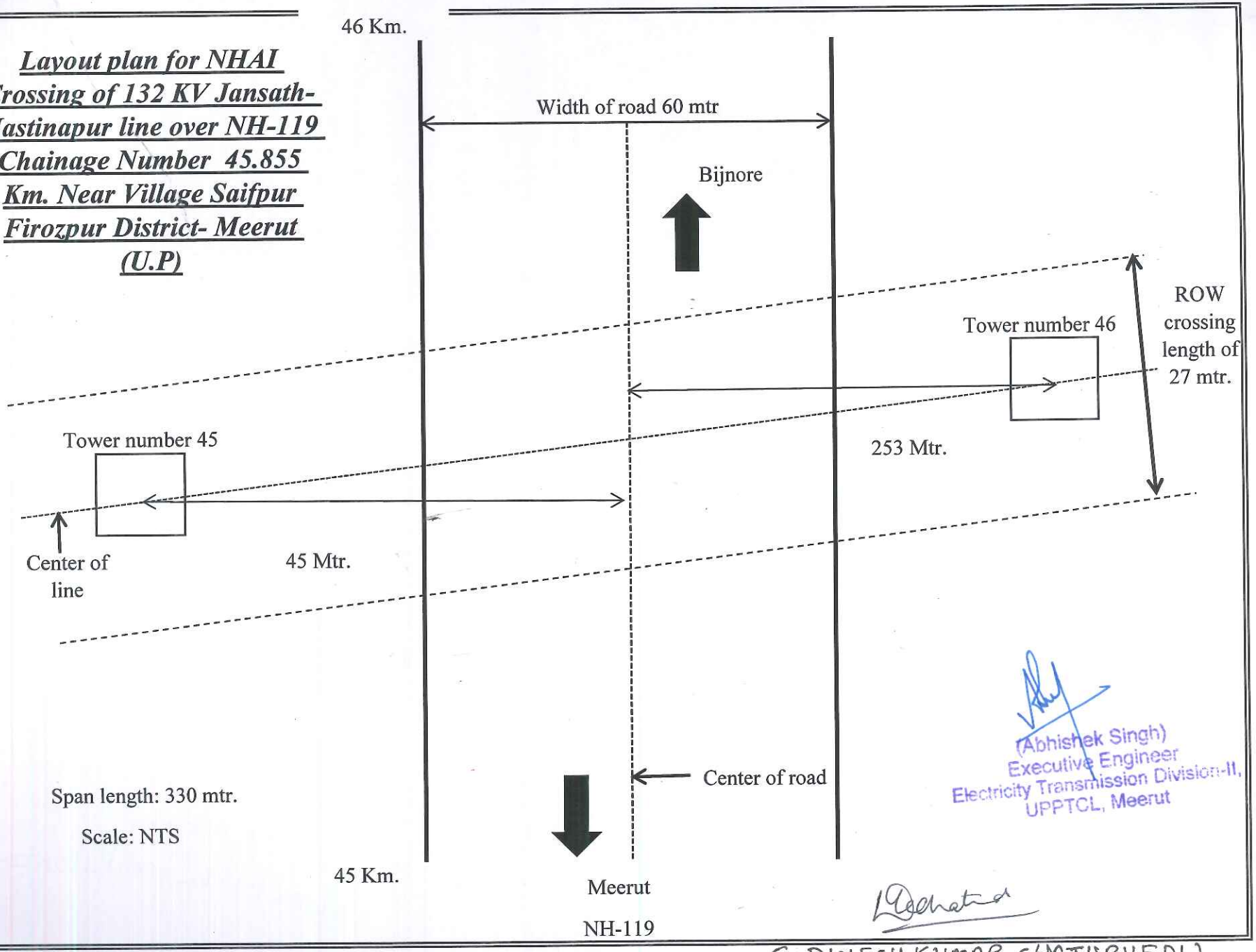
For NH-119 over head crossing by 132 KV DC Jansath-Hastinapur line.			
Sl. No.	Description	Details	
1	National Highway no.	119	
2	Crossing Name	Meerut-Bijnor	
3	Crossing Chaninage	~~46-47~~ 45-46 Km(Meerut-Bijnor) Vill. Siafpur-Firojpur, Tehsil-Mawana, Dist-Meerut.	
4	System of supply (i.e. Voltage) frequency, no. of phases, Whether neutral is earted or not.	132 KV, 50Hz, 2x3(DC)-Phase, Panther with one earth wire.	
5	Position of tower	AP 44 DA+0 Latitude 29°13'55.32'' Longitude 77°59'33.07''	AP 45 DC+0 Latitude 29°14'4.06'' Longitude 77°59'26.24''
6	Normal span at Panther conductor	250 m	
7	Maximum sag at normal span	14.4 m	
8	Crossing span	330 m	
9	Preceding span with loc	330 m	
10	Succeeding span with loc	320 m	
11	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.	
12	Sag of ACSR Panther conductor size aluminium: 30/3.00 & Steel: 7/3.00	Sag calculation enclosed.	
13	Clearance over road	17.0 m	
14	Height of lower conductor from ground level	16.8 m	
15	height of lower conductor from level of NH	17.0 m ~~0.2 m~~	
16	Angle of road crossing	78°34'17"	
17	Distance from NH boundary from centre of tower	AP 44- 234.75 m & AP 45- 26.75 m	
18	perpendicular distance from centre of tower to centre of road	AP 44- 45 m & AP 45 - 253 m	
19	Protection of assembly of line	Danger plate & Anti-climbing devices	
20	Foundation type	Partially Sub- merges.	
21	No. of stay required	Self supporting tower	
22	Min factor of safety	2	
23	Size of power conductor	261.5 Sq. mm	
24	Size of earth wire	58 Sq. mm	
25	Two legs of tower earthed	Pit-A	
26	Plain paper diagram	Profile enclosed	
27	Earthing	Pipe type earthing	

(Abhisek Singh)
Executive Engineer
ETD-II, Meerut

U.P. POWER TRANSMISSION CORPORATION		
1	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=	256m
	Tension at 0°C =	4144.81 Kg.
	Tension at 85°C =	3022.04 Kg.
	Sag at 0^{o} $=(w)^2/8T$	1.875 mtr.
	Sag at 85^{o} $=(w)^2/8T$	2.572 mtr.

(Abhisek Singh)
Executive Engineer
ETD-II, Meerut

Layout plan for NHAI Crossing of 132 KV Jansath-Hastinapur line over NH-119 Chainage Number 45.855 Km. Near Village Saifpur Firozpur District- Meerut (U.P)



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

(DINESH KUMAR CHATURVEDI)
GM(CTS)/PROJECT DIRECTOR)