



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highways Authority of India

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)
(Ministry of Road Transport & Highways, Govt. of India)
परियोजना कार्यान्वयन इकाई, लखनऊ / Project Implementation Unit, Lucknow
2/5, विक्रान्त खण्ड, गोमती नगर, लखनऊ-226010 (उ०प्र०)
2/5, Vikrant Khand, Gomti Nagar, Lucknow-226010 (U.P.)



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44019/NHAI/PIU/LKO/NOC/NH-28/AK/2023/ 1748

12
Dated 10.10.2023

INVITATION OF PUBLIC COMMENTS

Sub: Proposal for overhead crossing for LILO of 220 KV S/C Chinhat (220)-C.G.City (Lucknow) line at 400 KV S/S Mohanlalganj Transmission Line at Ch.203.803 on Lucknow Sultanpur Road NH-731 (Old NH-56) in the State of Uttar Pradesh.

Executive Engineer, UPPTCL, Electricity Transmission Division-III, Lucknow has submitted the proposal for permission NOC to overhead crossing for 220 KV S/C Chinhat (220)- C.G.City (Lucknow) line at 400 KV S/S Mohanlalganj Transmission Line at Ch.203.803 on Lucknow Sultanpur Road NH-731 (Old NH-56) in the State of Uttar Pradesh.

As per the guidelines, issued by the Ministry vide OM No. RW/NH-33044/29/2015/5BR (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 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 Project Director,
National Highways Authority of India,
Project Implementation Unit, 2/5, Vikrant Khand,
Gomti Nagar, Lucknow-226010

Encl: As above.

(Saurabh Chaurasiya)
Project Director

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. Executive Engineer, UPPTCL, Electricity Transmission Division-III, Lucknow for information.
4. The Regional Officer-UP (West), NHAI, Gomti Nagar, Lucknow.

CHECK LIST

**For NH 731 Road Crossing By Lilo of one circuit of 220kv barabanki(220) – Satrikh Road
LINE@400KVS/S MohanlalgangT/L**

S. N	Description	As Per Site	Remarks
1	National Highway no.	NH731	
2	Crossing name	Sultanpur -lucknow	
3	Crossing Chainage	CH. NO. 203+803	
4	System of supply (I, e, Voltage) Frequency, no. of Phases, Whether neutral is earthed or not	220kv D/c line, 50hz 3phase & opgw wire	
5	Position of tower	BETWEEN AP-16(DC+05), AP17 (DC+05)	
6	Normal span at ZEBRA conductor	380M	
7	Maximum sag at normal span	11.745m	
8	Crossing span	247.00 M	
9	Preceding span with loc.	360m	
10	Succeeding span with loc.	373m	
11	Height of structure above ground and below ground separately and detail of foundation	AP16(DC+05)=44.32mtr AP 17(DC+05)=44.32mtr Depth below ground level 3.0 M	
12	Sag of ACSR ZEBRA conductor size Al.54/3.18+7/3.18mm.	4.962m	
13	Clearance over road	16.22 M	
14	Height of lower conductor from ground level at loc.	AP 16(DC+05) 24.00m AP 17(DC+05) 24.00m	
15	Height /difference of lower conductor from level of NH at FRL.	16.22m	
16	Angle of road crossing	90°	
17	Distance from NH boundary from center of tower	AP16(DC+05) – 111 m AP17(DC+05) – 96 m	
18	Perpendicular distance from center of tower to center of road	AP16(DC+05) – 132 m AP17(DC+05) – 115m	
19	Protection of assembly of line	Danger board	
20	Foundation type	AP16(DC+05) –PS AP6(DC+05) –PS	
21	No. Of stay required	None	
22	Min. Factor of safety	2 sec.	
23	Size of power conductor	54/3.18mmal+7/3.18 DIA - 28.62mm, weight=1.6233kg/m	
24	Size of earth wire, opgw	opgw wire 7/3.18mm	
25	Tow lags of tower earthed	Pit – A & C	
26	Plain paper diagram	Profile (enclosed)	
27	Earthing	Pipe type	


Executive Engineer
 Electricity Transmission Division-III
 Lucknow

Minimum clearance in air above ground and across road surface of Highways or roads or railway corridors or navigational or non-navigational rivers for lowest conductor of an alternating current overhead lines, including service lines of nominal voltage system.

[See sub-regulation (1) of regulation (60)]

Nominal voltage of system	Clearance above ground		Clearance between conductor and road surface across Highway (m)	Clearance between conductor and rail level across Railway Corridor (m)	Clearance above HFL for River crossing	
	Across Street (m)	Along Street (m)			Navigational river (m)	Non-navigational river (m)
Upto 1000 V	5.80	5.50	4.60	U/G Cable	16.50	5.80
11 kV	6.50	5.80	4.60	U/G Cable	19.00	6.50
22 kV	6.50	5.80	5.20	U/G Cable	19.00	6.50
33 kV	6.50	5.80	5.20	11.60 or U/G Cable	19.00	6.50
66 kV	6.50	6.10	5.50	11.60 or U/G Cable	19.00	6.50
110 kV	6.50	6.10	6.10	11.60	19.00	6.50
132 kV	6.50	6.10	6.10	11.60	19.22	6.50
220 kV	7.02	7.02	7.02	12.52	20.10	7.02
400 kV	8.84	8.84	8.84	14.00	21.90	8.84
765 kV	18.00*	18.00*	18.00*	18.80	25.55	18.00
1200 kV	24.00*	24.00*	24.00*	30.00	29.90	24.00

For navigable rivers, clearances shall be fixed in relation to the tallest mast in consultation with the concerned navigational/port authorities.

* Higher clearance due to predominantly induction effects and time varying electric field (ICNIRP limit: 10 kV/m for occupational exposure) at voltage exceeding 400 kV.

Railway Crossing clearances as per ACS 20 of IRSOD Dated 17-07-2017