



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.)



दूरभाष / Phone : 91-522-4571399, ई-मेल / E-mail : luc@nhai.org, वेबसाइट / Website : www.nhai.gov.in

44019/NHAI/PIU/LKO/NOC/NH-28/AK/2023/ 1745

¹¹
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. 203.145 Km. 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.203.145 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 : Lilo of 220kv S/C Chinat (220) - C G City(Lucknow) Line @400kv S/S Mohanlalganj
Transmission Line**

1	National Highway No.	NH-731
2	Crossing name	Sultanpur - Lucknow
3	Crossing Chainage	203+145km
4	System of supply (I, e, Voltage) Frequency, no. of Phases, Whether neutral is earthed or not	220kv D/c line, 50hz 6phase & opgw wire
5	Position of tower	BETWEEN AP-30(DB+6), AP31 (DD+6)
6	Normal span at moose conductor	380M
7	Maximum sag at normal span	12.134m
8	Crossing span	161.00 M
9	Preceding span with loc.	287m
10	Succeeding span with loc.	295m
11	Height of structure above ground and below ground separately and detail of foundation	AP30 (DB+06) = 42.55mtr AP31 (DD+06) = 42.95mtr Depth below ground level 3.0 M
12	Sag of ACSR MOOSE conductor size Al.54/3.53+7/3.53mm	2.178m
13	Clearance over road	20.12 M
14	Height of lower conductor from ground level at loc.	AP 30 (DB+06) 25.100m AP 31 (DD+06) 25.100m
15	Height /difference of lower conductor from level of NH at FRL.	20.12m
16	Angle of road crossing	90°
17	Distance from NH boundary from center of tower	AP30 (DB+06) – 60.0 m AP31 (DD+06) – 52.0 m
18	Perpendicular distance from center of tower to center of road	AP30 (DB+06) – 86.0 m AP31 (DD+06) – 75.0m
19	Protection of assembly of line	Danger board
20	Foundation type	AP30 (DB+06) – FS AP31 (DD+06) – FS
21	No. Of stay required	None
22	Min. Factor of safety	2 sec.
23	Size of power conductor	54/3.54mm al+7/3.53 DIA - 3.177cm, weight=2.004kg/m
24	Size of OPGW wire	OPGW wire 11/2.6mm
25	Two 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	U/G Cable	U/G Cable	16.50	5.80
11 kV	6.50	5.80	U/G Cable	U/G Cable	19.00	6.50
22 kV	6.50	5.80	U/G Cable	14.66	19.00	6.50
33 kV	6.50	5.80	11.60 or U/G Cable	14.66	19.00	6.50
66 kV	6.50	6.10	11.60 or U/G Cable	14.66	19.00	6.50
110 kV	6.50	6.10	11.60	15.56	19.00	6.50
132 kV	6.50	6.10	11.60	15.56	19.22	6.50
220 kV	7.02	7.02	12.52	16.46	20.10	7.02
400 kV	8.84	8.84	14.00	18.26	21.90	8.84
765 kV	18.00*	18.00*	18.80	23.40	25.55	18.00
1200 kV	24.00*	24.00*	30.00	23.00 (from highest traction conductor)	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