



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/2023/1740

Dated 10.10.2023

INVITATION OF PUBLIC COMMENTS

Sub: Proposal for overhead crossing for 132KV S/C Barabanki-Ramnagar Transmission Line at Ch. 39.980 Km. on Lucknow Ayodhya Road NH-27 (Old NH-28) 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 132KV S/C Barabanki Ramnagar Transmission Line at Ch 39.980 Km. on Lucknow Ayodhya Road NH-27 (Old NH-28) 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 28 Road Crossing By 132kv barabanki(220) – Ramnagar T/L

S.N	Description	As Per Site	Remarks
1	National Highway no.	NH28	
2	Crossing name	Lucknow-Ayodhya	
3	Crossing Chainage	CH. NO. 39+980	
4	System of supply (l, e, Voltage) Frequency, no. of Phases, Whether neutral is earthed or not	132kv D/c line, 50hz 3phase & opgw wire	
5	Position of tower	BETWWEEN AP-12(DC+05), AP13 (DC+05)	
6	Normal span at ZEBRA conductor	380M	
7	Maximum sag at normal span	10.475m	
8	Crossing span	243.00 M	
9	Preceding span with loc.	302.0m	
10	Succeeding span with loc.	116.0m	
11	Height of structure above ground and below ground separately and detail of foundation	AP12(DC+05)=36.145mtr AP 13(DC+05)=36.145mtr Depth below ground level 3.0 M	
12	Sag of ACSR ZEBRA conductor size Al.54/3.18+7/3.18mm	4.283m	
13	Clearance over road	15.25 M	
14	Height of lower conductor from ground level at loc.	AP 12(DC+05) 21.0m AP 13(DC+05) 21.0m	
15	Height /difference of lower conductor from level of NH at FRL.	15.25m	
16	Angle of road crossing	90°	
17	Distance from NH boundary from center of tower	AP12(DC+05) – 89.0 m AP13(DC+05) – 111.0 m	
18	Perpendicular distance from center of tower to center of road	AP12(DC+05) – 115 m AP13(DC+05) – 128m	
19	Protection of assembly of line	Danger board	
20	Foundation type	AP12(DC+05) –PS AP13(DC+05) –PS	
21	No. Of stay required	None	
22	Min. Factor of safety	2 sec.	
23	Size of power conductor	30/3.00mmal+7/3.00 DIA - 21.0mm, weight=0.976kg/m	
24	Size of earth wire, opgw	opgw wire 7/3.00mm	
25	Tower lags of tower earthed	Pit – A & C	
26	Plain paper diagram	Profile (enclosed)	
27	Earthing	Pipe type	


Executive Engineer
 Electricity Transmission Division-III
 Lucknow

Schedule-VIII-A

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