



सत्यमेव जयते

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

(Ministry of Road Transport and Highways, Government 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)

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19001/1/RO-W-UP/NH-27/47.250 to 47.300/Overhead/2475

Dated: 08/11/2023

INVITATION OF PUBLIC COMMENTS

Sub: Proposal for overhead crossing for 220KV SC Dahi Chowki Unnao (400)-Ajgain TSS Transmission line on NH-27 at Ch. 47.250 to 47.300 near village-Malaon, Unnao in the state of Uttar Pradesh.

Executive Engineer, UPPTCL, Electricity Transmission Division (ETD), Unnao has submitted the proposal for permission / NOC to overhead crossing for 220KV SC Dahi Chowki Unnao (400)-Ajgain TSS Transmission line on NH-27 at Ch. 47.250 to 47.300 near village-Malaon, Unnao in the state of Uttar Pradesh.

2. 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).

3. 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 Regional Officer,
National Highways Authority of India,
Regional Office, UP-West, Lucknow
3/248, Vishal Khand Gomti Nagar Lucknow-226010

This issues with the approval of RO-UP (West), Lucknow.

Encl: As above.

Shubham 08/11/2023
(Shubham Gupta)
Dy. Manager (Tech)

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, Unnao for information.
4. PD, PIU- Lucknow- for information.

CHECK LIST

For : 220 KV S/C Dahi Chowk Unnao(400) - Ajgain TSS Transmission Line

1	National Highway No.	NH-27(old 25)
2	Crossing name	Lucknow - Kanpur
3	Crossing Chainage	47+262
4	System of supply (I, e, Voltage) Frequency, no. of Phases, Whether neutral is earthed or not	220kv D/c line, 50hz 3 phase & Earth wire
5	Position of tower	BETWEEN AP-22(DC+05), AP23 (DC+05)
6	Normal span at ZEBRA conductor	380M
7	Maximum sag at normal span	11.745m
8	Crossing span	210 00 M
9	Preceding span with loc.	212m
10	Succeeding span with loc.	139m
11	Height of structure above ground and below ground separately and detail of foundation	AP22 (DC+05) = 44.32mtr AP23 (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	3.587m
13	Clearance over road	14.10 M
14	Height of lower conductor from ground level at loc.	AP 22 (DC+05) 24.225m AP 23 (DC+05) 24.225m
15	Height /difference of lower conductor from level of NH at FRL.	14.10m
16	Angle of road crossing	90°
17	Distance from NH boundary from center of tower	AP22 (DC+05) - 100.0 m AP23 (DC+05) - 71.0 m
18	Perpendicular distance from center of tower to center of road	AP22 (DC+05) - 120.0 m AP23 (DC+05) - 90.0m
19	Protection of assembly of line	Danger board
20	Foundation type	AP22 (DC+05) - FS AP23 (DC+05) - FS
21	No. Of stay required	None
22	Min. Factor of safety	2 sec.
23	Size of power conductor	54/3.18mm al+7/9 DIA -28.62mm, weight=1.623kg/m
24	Size of earth wire	Earth wire 7/9mm /DP4W
25	Two lags of tower earthed	Pit - A & C
26	Plain paper diagram	Profile (enclosed)
27	Earthing	Pipe type



Executive Engineer
Electricity Transmission Division
Dahi Chowk Unnao

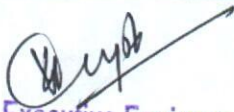
UTTAR PRADESH POWER TRANSMISSION CORPORATION LTD.

LUCKNOW-KANPUR National Highway – 27(Old 25) crossing chainage is 47+262 km near village Malon for construction of 220 KV S/C Dahi Chowk Unnao(400) - Ajgain TSS Transmission Line between Angle AP No. 22 (C60+05) & AP No.23 (C60+05).


Name of Transmission Line: 220 KV S/C Dahi Chowk Unnao(400) - Ajgain TSS

Transmission Line

1.	Situation of the EHV transmission line crossing on National Highway.	On LUCKNOW - KANPUR National Highway NH – 27(old 25) near village - Malaon
2.	Site Plan showing location of crossing (with NHAI boundaries) in reference to NHAI Mileage to be supplied on quadruplicate. .	Crossing Chainage 47+262 km
3.	Angle of crossing of the transmission line with the National Highway at crossing point	90 ⁰
4.	The length of the span at the crossing and also those on either side of the crossing	A) Crossing span 210 Mtr. B) Preceding span 212 Mtr. C) Succeeding span 139 Mtr.
5.	In the event of the transmission line deviating at any of the supports of the crossing necessitating one of the structures to be a corner structure, state angle of such deviation the deviation of the span on either side of crossing shall be illustrated in the sketch mentioned.	Angle Tower Location No. AP 22 DC+05 < 52 ⁰ 15'10"LT E-461304, N-2942617 AP 23 DC+05 < 46 ⁰ 58'12"RT E- 461207, N-2942784
6.	The number, size and the material of the conductors and wires crossing the NHAI each wire under phase, neutral each, guard, bearer and ground cross wire should be separately described and their disposition indicated by means of sketch.	A) ACSR Zebra Conductor of 54/3.18mm Aluminum +7/9mm Steel for 3 phases. B) 1 No. earth wires 12mm <i>ppgw</i>
7.	Indicate whether the proposed guard is to be restricted to the crossing span or it is to be continued over the adjacent span.	No guard wire is provided.
8.	The deviation of the span on either side on the crossing shall be illustrated in the sketch mentioned.	Enclosed in Drawing.
9.	System of supply (i.e. Voltage) frequency, No. of phases, whether neutral is earthed or not.	220 KV, AC 50 Hz, 3 Phase S/C with 1 Earth wires.


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Electricity Transmission Division
Dahi Chowk Unnao

10.	1. Height of structure above ground and below ground separately and details of foundation.	A) Tower AP No 22 (DC+05) height above GL 44.32m, depth below GL 3.00M. B) Tower AP No. 23 (DC+05) height above GL 44.32m depth below GL 3.00m.
11.	Height above ground level of (1) Lowest conductor on insulator.	Tower AP No. 22 DC+05 = 24.225 m. Tower AP No. 23 DC+05 = 24.225m
12.	Height of road level above ground level measured at the foot of the structure.	Tower AP No. 22 DC+05 = 2.80 m. Tower AP No. 23 DC+05 = 3.11 m
13.	Clearance under maximum sag condition between road level and the lowest live conductors & between road level and lowest guard wire (State if "box" type guarding is provided in case of adoptions of unearthed neutral system).	At Null Point = 14.10 m. At Road = 14.10 m
14.	Ultimate Tensile stress of the steel wire used for guard for earth wire in tones per Sq. Cm.	Not applicable
15.	Approximate distance of each of the structures to the nearest NHAI Boundary (marked by pillars/ Fencing) measured along the alignment of the transmission line.	Tower AP No. 22 DC+05 = 100.00 M. Tower AP No. 23 DC+05 = 71.00 M
16.	Are the proposed structure is in NHAI boundary.	Outside NHAI boundary.
17.	Are approved warning notices provided on the structures erected	Warning boards are provided on both the Towers.
18.	State the tensile strength and dimension of the steel used for construction of each member of the supporting structures. It is to be noted that supporting structure must be of approved design confirming with I.S.I code of practice for use of structural steel in general building construction (IS 800 1965).	Tested steel quality Lattice steel structure made of mild steel and high tensile steel in conformity with clause 4.0 of I.S. 226- 1975 and with a tensile strength of 15704 Lbs/Sq Inch.
19.	Dimensions and types of brackets used for the cross arms as well as for the guards wires.	Not applicable for transmission Line.
20.	In each structure of the crossing span independently earthed by means of an earth plate.	Yes, each structure is earthed.
21.	In each structure supported by means of stage in three directions give the size of guy wires,	No. guys or stays are provided structures are self supporting.


 Executive Engineer
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 Dahi Chowki, Jaipur