No. RO/LKO/US/NH-96(330)/Km.132.833/2019/4107

Government of India
Ministry of Road Transport &Highways
(Chief Engineer - Regional Office, Lucknow)

N.H. Bhawan, Biotech Chowk, Lucknow Ring Road, Vikas Nagar, Lucknow - 226 022
Ph.: (0522) - 2967112, 2738226 (Tele-Fax)

Dated: 18.11.2019

Invitation of public comments

Sub.: **Proposal for NOC for overhead crossing of 132 KV D/C LILO of 132 KV Phulpur - Saraon overhead Transmission Line on NH-96(330) at Km.132.833 near Village - Kaurihar, Faizabad - Prayagraj Section the State of Uttar Pradesh - Reg.**

M/s UP Power Transmission Corporation Limited, Prayagraj has submitted the proposal for overhead crossing of 132 KV D/C LILO of 132 KV Phulpur - Saraon overhead Transmission Line on NH-96(330) at Km.132.833 near Village - Kaurihar, Faizabad - Prayagraj Section the State of Uttar Pradesh to Executive Engineer, NH Division - 1, PWD, Prayagraj for consideration.

2. From the submitted proposal, it is seen that the height of both the pylons on which the proposed overhead line is hanging is 47.025m. The pylons on either side are erected at distance of 170 m &70 m from the National Highway boundary. Further, it noted that the minimum clearance between the lowest conductor of the proposed line and NH carriageway is 20m. However, the proposed transmission line shall be crossing the National highway at 90 degree.

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 public on the above application is invited to the below mentioned address:

The Chief Engineer - Regional Officer,
Ministry of Road Transport & Highways,
N.H. Bhawan, Biotech Chowk, Lucknow Ring Road,
Vikas Nagar, Lucknow - 226 022.

Yours faithfully,

Encl.: As above

(Ruchir Agarwal)
Assistant Executive Engineer
for Chief Engineer - Regional Officer

Copy to:
(i) NIC, New Delhi - for uploading on the Ministry's website.
(ii) The Chief Engineer (NH), UP PWD, Lucknow.
(iii) The Superintending Engineer, 18th Circle (NH), PWD, Prayagraj.

(Ruchir Agarwal)
Assistant Executive Engineer
for Chief Engineer - Regional Officer

UTTAR PRADESH POWER TRANSMISSION CORPORATION LIMITED.

132 KV DC LILO OF 132 KV PHULPUR - SORAON TRANSMISSON LINE AT KAUDIHAR FROM PHULPUR-KAUDIHAR UNDER SECTION CROSSING OF FAIZABAD-PRAYAGRAJ NATIONAL HIGHWAY - 96 BETWEEN ANGLE TOWER LOCATION NO AP-14 TO AP-15 OF UPPTCL

CROSSING OF NATIONAL HIGHWAY BY UPPTCL OVERHEAD TRANSMISSION LINE

Name of transmission line: -132 KV DC LILO OF 132 KV PHULPUR - SORAON TRANSMISSON LINE AT KAUDIHAR UNDER UTTAR PRADESH POWER TRANSMISSION CORPORATION LTD.

1	Situation of the EHV transmission line crossing on State Highway	On FAIZABAD-PRAYAGRAJ National Highway (NH-96) Near Village–SORAON Dist.-PRAYAGRAJ
2	Site Plan showing location of crossing (with SH boundaries) in reference to SH Mileage to be supplied on quadruplicate...	Drawing enclosed
3	Angle of crossing of transmission line with the National Highway at crossing point	90
4	The length of the span at crossing and also those on either side of the crossing	A) Crossing span :- 240 m B) Preceding span :- 300 m C) Succeeding span:- 100 m
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 in the clause 2 above	Angle tower location No AP -14/0 DC+15 AP -15/0 DC+15
6	The number, size and the material of the conductors and wires crossing the SH 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) 6 No's. 21.0 mm Size ACSR PANTHAR Conductor
7	Indicate whether the proposed guard is to be restricted to the crossing span or it is to be continued over the adjacent	No guard wire is provided high speed impedance relays provide at substation both the ends
8	The dilation of the span on either side on the crossing shall be illustrated in the sketch mentioned in the clause 2 above	Enclosed in sketch

Executive Engineer
Electy. Trans. Division-I
57-George Town, Prayagraj

Executive Engineer
Electy. Trans. Division-I
57-George Town, Prayagraj

ASSISTANT ENGINEER
NH-1, P.W.D.
PRAYAGRAJ

Executive Engineer
N.H. Division-1, P.W.D.

9	System of supply (I.e. Voltage) frequency, No. of phases, whether neutral is earthed or not.	132 KV D/C, 6 Phase AC Supply & 01 No. Earth wire Continuous running on the top from PHULPUR-KAUDIHAR S/S
10	Height of structure above ground and below ground separately and details of foundation	Tower No 14 (DC+15) is 47.025 Mtr above the ground level and 3 mtr. Below ground level RCC Foundation. Tower no. 15/0 (DC+15) is 47.025 mtr. Above the ground level and the 3 mtr. Below ground level RCC foundation. Details of Foundation are shown in enclosed drawing.
11	Height above ground level of (1) lowest conductor on insulator and (2) guard wire on bracket above ground level.	Angle Tower Location No. 14 (DC+15) 31.8 mtr Angle Tower Location No. 15/0 (DC+15) 31.8 Mtr
12	Height of road level above ground level measured at the foot of the structure.	Angle Tower Location No. 14 (DC+15) 3.064 mtr Angle Tower Location No. 15/0 (DC+15) 2.648 Mtr
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)	A) Conductor:maximum Sag 4.178 Mtr B) Conductor:minimum Sag 2.959 Mtr
14	Ultimate tensile stress of the steel wire used for guard for earth wire in tones Sq.Cm.	6.972 KN (0.65784 T/Sqm)
15	Approximate distance of each of the structures to the nearest SH Boundary (marked by pillars/ fencing) measured along the alignment of the transmission line	Angle Tower Location No. 14 (DC+15) -70 m Angle Tower Location No. 15 (DC+15) -170 M
16	Are the proposed structure is in SH boundary.	Outside NH Boundary.

17	Are approved anti-climbing devices and warning notices provided on the structures erected	Warning boards are provided on both the Towers.

Executive Engineer
Electy. Trans Division-I
57-George Town, Prayagraj

ASSISTANT ENGINEER
NH-1, P.W.D.
PRAYAGRAJ

Executive Engineer
Electy. Trans Division-I
57-George Town, Prayagraj

Executive Engineer
N.H. Division-1, P.W.D.
Prayagraj

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 8001965)	Drawing Enclosed board based lattice Structure made for mild steel. (i) MS steel =410 N/sq.mm 59465.492 IDF/Sq.m
19	In each structure of the crossing span independently earthed by means of an earth plate.	Yes each structure is earthed
20	In each structure supported by means of stage in three directions give the size of guy wires, (the neglected in calculating the strength of structure.)	No guys or stays are provided structures are self-supporting
21	If no guard is provided in the transmission line protected by device to ensure instantaneous isolation is conduction?	Yes the transmission line is protected instantaneously by high speed protection relays with carrier equipment
22	Type of insulators used	120 KN Tension insulator
23	State the method of maintenance to be employed to ensure the following protections. A)From over hanging or decaying trees which might fall on the line B) To reduce the hazard to life and property. C) Supporting structure including guys, from the danger of being struck by moving road vehicle	a) Tree clearance to a width 13.5 M is done b) Warning boards are provided. c) Structures are at safe distance from road
24	Drawing showing details of crossing disturbance of road ground or attachment that may be necessary	Enclosed

Executive Engineer
Electy. Trans. Division-I
57-George Town, Prayagraj

Executive Engineer
Electy. Trans Division-I
57-George Town, Prayagraj

ASSISTANT ENGINEER
NH-1, P.W.D.
PRAYAGRAJ

Executive Engineer
N.H. Division-1, P.W.D.
Prayagraj

CHECK LIST

1- National Highway Number	:	NH-96
2- Name of crossing	:	FAIZABAD-PRAYAGRAJ (NH-96)
3- Crossing at Chainage	:	Between ~~127-130~~ 132.833 to 132.935
4- Position of tower	:	Outside the ROW of NH
5- Crossing span	:	240 MTR
6- Clearance over the road Level	:	20.0 MTR
7- Angle of road crossing	:	90^0
8- Distance from SH boundary to	:	Tower No 14 (DC+15) -70.0 M
Centre of tower	:	Tower No 15 (DC+15) -170.0 M
9- Horizontal Distance from centre	:	AP 14 – 70.0 M
of tower to centre of road	:	AP 15 – 170.0 M
10- Protection of assembly to the line	:	No Anti Climbing devices provided
11- No. of stay required	:	No Required
12- Minimum Factor of Safety	:	2.0 (Normal Condition)
13- Size of power conductor mm.	:	21.0 MM
14- Size of earth wire	:	7/3.66 +10.98mm. (Steel)

Executive Engineer
Electy. Trans. Division-I
57-George Town, Prayagraj

Executive Engineer
Electy. Trans. Division-I
57-George Town, Prayagraj

ASSISTANT ENGINEER
NH-1, P.W.D.
PRAYAGRAJ

Executive Engineer
N.H. Division-1, P.W.D.
Prayagraj