

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण (सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार) National Highways Authority of India



(Ministry of Road Transport & Highways, Govt. of India) परियोजना निदेशक का कार्यालय, परियोजना कार्यान्वयन इकाई Office of the Project Director, Project Implementation Unit

53, बसंत विद्यार, नौबरता, कानपुर - 208021 • 53, Basant Vihar, Naubasta, Kanpur - 208021 NHAI/1302ूब्रमीम्थ्/अभरत्रासा-रुज्य ND2620334/2630214 • ई-गेल / e-mall: knp@ntml:org* Dec, 2023

Invitation of Public Comments

Sub: Permission for overhead crossing of Jhansi - Kanpur highway on NH-27 between Km. 1565+800 to Km. 1565+900 of 132 KV D/C Gujare (Solar Plant) - Pukhrayan Transmission Line in the State of U.P by U.P. Power Transmission Corporation Ltd. reg.

The Executive Engineer, U.P Power Transmission Corporation Ltd., Govind Nagar, Kanpur has submitted the proposal for overhead crossing of Jhansi - Kanpur highway on NH-27 between Km. 1565+800 to Km. 1565+900 of 132 KV D/C Gujare (Solar Plant) - Pukhrayan Transmission Line in the State of U.P by U.P. Power Transmission Corporation Ltd.

2. From the submitted proposal, it is seen that UPPTCL has proposed 01 no. crossing, crossing length is proposed between Km. 1565.800 to Km. 1565.900 across NH-27. The overhead crossing normal span is 348m whereas at the location of crossing of project highway the span length is 148m. From top of the road height of lowest conductor is mentioned as 16.85m, which is more than 6.5m as given in IRC 32-1969 for vertical clearance. The horizontal clearance from centre line of road is mentioned 63 & 85 mtr. which is more than required clerance. The existing NH is 4-lane divided carriageway.

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 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 Dy. General Manager (T)/ Project Director, National Highways Authority of India, Project Implementation Unit, 53, Basant Vihar, Kanpur -208021

This issues with the direction of RO-West (UP).

Encl: As above.

(Aman Rohilla) 04/1/20

Project Director

Copy to:

- 1.Regional Officer (West)-UP, NHAI, 3/248, Vishal Khand, Gomati Nagar, Lucknow.
- 2. The Web Admin, NHAI-HQ- with request for uploading on the NHAI website.
- 3. The Technical Director, NIC, Transport Bhawan, New Delhi- with a request for uploading on the Ministry's website.
- 4. Executive Engineer, U.P Power Transmission Corporation Ltd., Govind Nagar, Kanpur.

प्रधान कार्यालय : जी-5 और जी-6, सेक्टर - 10, द्वारका, नई दिल्ली - 110075 • दूरमाष : 91-11-25074100/25074200 • चेबसाइट : www.nhai.gov.in Head Office : G-5 & G-6, Sector - 10, Dwarka, New Delhi - 110075 • Phone : 91-11-25074100/25074200 • Website : www.nhai.gov.in



CHECKLIST-I FOR NH27 ROAD CROSSING BY 132 KV D/C GUJARE (SOLAR PLANT) -POKHRAYAN T/LINE, S.NO DESCRIPTION DETAILS 1 NATIONAL HIGHWAY NO **NH27** 132 D/C GUJARE (SOLAR PLANT) -POKHRAYAN T/L 2 CROSSING LINE NAME LINE **CROSSING CHAINAGE** 3 1565+800 - 1565+900 SYSTEM OF SUPPLY (I.e VOLTAGE) FREQUENCY NO, OF PHASES 4 WATHER NEUTRAL IS EARTHED OR NOT 132 kV,3 PHASE DOUBLE CIRCUIT,ONE OPG WWIRE TOWER LOCATION AP-28/0 C60+5, TOWER LOCATION POSITION OF TOWER 5 AP 29/0 C60+5 NORMAL SPAN OF ACSR PANTHER CONDUCTOR 6 380 M 7 MAXIMUM SAG AT NORMAL SPAN 10.475 M 8 **CROSSING SPAN** 148 M PRECEEDING SPAN WITH LOC. LOC - 27/0(SPAN 290 M) HEIGHT OF C60+5 M TOWER ABOVE GL AT LOC HIGHT OF TOWER STRUCTURE ABOVE GROUND AND BELOW GROUND NO.AP28/0 IS 37.225 M AND BELOW GL IS 3 M FOR 10 SEPERATLY AND DETAILS OF FOUNDATION FOUNDATION, HEIGHT OF C60+5 M TOWER ABOVE GL AT LOC NO AP5/0 IS 37.225 M AND BELOW GL IS **3M FOR FOUNDATION.** 11 SUCCEEDING SPAN WITH LOC. LOC - 30/0 (SPAN 167M) MAXIMUM SAG OF ACSR PANTHER CONDUCTOR SIZE Aluminium 30AI 12 +7st/3.00m. 10.475M 13 CLEARANCE OVER ROAD 16.85M 14 HEIGHT OF LOWER CONDUCTOR FROM GROUND LEVEL AT LOCATION 22.025M HEIGHT OF LOWER CONDUCTOR FROM ROAD LEVEL OF NH AT 15 LOCATION. 16.85M 🗸 16 ANGLE OF ROAD CROSSING 90 Degree 17 DISTANCE FROM NH BOUNDARY FROM CENTER OF TOWER. LOC NO -AP28/0=65.00M,LOC NO AP29/0=43.00M PE (PENDICULAR DISTANCE FROM CENTER OF TOWER TO CENTER OF 18 LOC NO -AP28/0=85M,LOC NO AP29/0=63M ROAD. 19 PROTECTION OF ASSEMBLY OF LINE NO ANTI CLIMBING DEVICE PROVIDED 20 FOUNDATION TYPE FS 21 NO OF STAY REQUIRED NONE 22 MAX.FACTOR OF SAFETY 2 23 SIZE OF POWER CONDUCTOR DIA-21.00MM WEIGHT=0.977KG/MTR 24 SIZE OF EARTH WIRE DIA-7*/3.25MM WEIGHT = 0.460KG/MTR. 25 TWO LEGS OF TOWER EARTHED PITA&C 26 PLANE PAPER DIAGRAM PROFILE (ENCLOSED) 27 EARTHING



Sub Division Officer E.T.S.D.-U Azad Nagar, Kanpur



PIPE TYPE

U.P.POWER TRANSMISSION CORPORATION LIMITED

Name of Transmission Line :132 KV D/C GUJARE (SOLAR PLANT) -POKHRAYAN T/L LINE

1	Situation of the EHV transmission line crossing on	
2	Angle of crossing of the transmission line with the National Highway at crossing point	On (KANPUR-JHANSI)National Highway (NH - 27)
3	The length of the span at the and	90°
	either side of the crossing	A) Crossing and the
		A) Crossing span148Mtr.
4	In the event of the transmission	B) Preceeding span 290Mtr.
	In the event of the transmission line deviating at any of the supports of the crossing necessitating one of the structure to be a corner structures, state angle of such deviation. The deviation of the span on either side	C) Succeeding span 167 Mtr.
		Angle Tower Location No.
	The deviation of the span on either side of crossing shall be illustrated in the sketch mentioned	AP 28/0 DC+5 ∠57°24'34"RT
5	be illustrated in the sketch mentioned in the claused 3 above.	AP 29/0 DC+5 ∠01°10'35"RT
	The number, size and the material of the conductors and wires crossing the NH each wire under phase, neutral each, guard, bearer and ground cross wire should be separately described and their disposition indicated by means of sketch.	SIZE OF CONDUCTOR - ACSR Panther ,30 AI +7st /3.00mm,UNIT WT-0.977 KG/M, DIAMETER-21 mm
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 in the clause 2 above.	Enclosed in sketch.
9	System of supply (I.e. Voltage) frequency, No. of phases, whether neutral is earthed or not.	Rated system Voltage – 132 KV. Frequency – 50 Hz 6. Phoe
10	Inelant of structure -1	chectively earned
	separately and details of foundation.	A) Angle Tower Location No. AP028(DC+5) height above G 37.225 M depth below GL 3 M.
1		B) Angle Tower Location No. AP29(DC+5) height above
	그 같은 그는 것이 아니는 것을 물었다. 것이 가지 않는 것이 나라.	GL37.225 IVI depth below GL 3M
11	Height above ground level of (1) Lowest conductor on	C) Drawing enclosed for details of foundation.
	[guard wire on bracket above ground	Angle Tower Location No.
	level.	AP28 DC+5= 22.025 M.
	이 집안에서 힘들었는 것 같아. 것 것은 것 같아. 그는 것 물	Angle Tower Location No.
12	Height of road level above ground level measured at the	AP 29 DC+5=22.025 M.
	foot of the structure.	Angle Tower Location No.
		AP28 DC+5= 4.140 M.
		Angle Tower Location No.
13	Clearance under movimum and the	AP29 DC+5=3.98M.
	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 un-earthed neutral system).	At Road =16.85 M

Sub Division Comper-E.T.S.D.-la Azad Nagar, Kanpur

O Scanned with OKEN Scanner

14	Ultimate tensile stress of the steel wire used for guard for earth wire in tones per Sq. Cms.	Not applicable
15	Approximate distance of each of the structures to the nearest NH measured along the alignment of the transmission line	Angle Tower Location No.
	이 같은 것 같은 것이 같은 것이 같이 같이 같이 같이 같이 많이	AP28 DC+5=85 M
	이 그는 것 같아. 그는 것이 같아? 한 것을 가 수 있는 것을 했는	Angle Tower Location No.
	Any the proposed structure is in the	AP29 DC+5≖63M
16	Are the proposed structure is in NH boundary.	Outside NH boundary.
17	provided on the structures erected.	No Anticlimbing devices provided, Only Warning boards are provided on both the Towers.
18	Dimensions and types of brackets used for the cross arms as well as for the guards wires.	Please see the enclosed drawing, Not applicable for
19	In each structure of the crossing span independently earthed by means of an earth plate.	Yes, each structure is shown in the drawing.
20	In each structure supported by means of stage in three directions give the size of guy wires, (the neglected in	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 his speed protection relays with carrier equipment.
22	State the method of maintenance to be employed to ensure the following protections.	
a)	From overhanging or decaying trees which might fall on the line.	a) Tree clearance to a width of 27M is done.
b)	To reduce the hazard to life and property.	b) Warning boards are provided.
C)	Supporting structure including guys, from the danger of being struck by moving road vechile.	c) Structures are at safe distance from road.
23	Drawing showing details of crossing disturbance of road, ground or attachment that may be necessary (to be supplied in quadruplicate).	Enclosed.



60

Grom Sub Division Officer E.T.S.D.-II Azad Nagar, Kanpur



