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 उ0प्र0, 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)
दूरभाष / Phone : 0522-4960291, टेलीफैक्स / Fax : 0522-4950680
ई-मेल / E-mail : rowestup@nhai.org, rowestup@gmail.com

19001/1/RO-W-UP/NH-27/Km.82+000-82+050/OH/NOC/2045 **Dated:10.04.2023**

Invitation of Public Comments

Sub: Crossing approval of overhed 132 kV, S/C 2-ph Milkipur - Rauzagon TSS Transmission Line over NH-27, (Lucknow - Gorakhpur) B/W Chainage No.82+000 & 82+050 - reg.

The Authorized Signatory M/s UPPTCL has submitted the proposal for permission for Crossing approval of overhed 132 kV, S/C 2-ph Milkipur - Rauzagon TSS Transmission Line over NH-27, (Lucknow - Gorakhpur) B/W Chainage No.82+000 & 82+050 in the State of Uttar Pradesh.

2. From the submitted proposal, it is seen that the position of Tower is outside of NH ROW. Length of crossing Span is 248m & Towers are at a distance of 140m & 58m from either side of NH boundary while height of towers is 42.22m in both side. Vertical Clearance between road level & the lowest conductor is 12.80m. Width of available ROW is 47m.

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 General Manager cum Regional Officer,
National Highways Authority of India
Regional Office, UP-West, Lucknow
3/248, Vishal Khand, Gomti Nagar
Lucknow-226 010

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

Encl: As above.

(S.K. Sharma)
General Manager(T)
For RO-West, UP

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. The Authorized Signatory M/s UPPTCL for information.
4. The PD, PIU-Lucknow for information.

CHEK LIST

1.	National Highway Number	:	NH – 27
2.	Name of Crossing	:	LUCKNOW - GORAKHPUR
3	Crossing at Chainage	:	82+00 & 82+050 KM LUCKNOW - GORAKHPUR NH near village – RAUZAGAON
4.	Position of towers	:	Outside the ROW of NH
5.	Crossing Span	:	248M
6.	Clearance over the road level	:	18.80 M
7.	Angle of road crossing	:	71^0 00'00"
8.	Appox. Distance from NH Boundary to center of tower	:	AP No.69, DC+10 = 140.00 M. AP No.70 , DC+10 = 58.00 M
9.	Perpendicular distance from center of tower to center of road	:	AP No.69, DC+10 = 158.00 M. AP No.70 , DC+10 = 90.00 M
10.	Protection of assembly to the line	:	Yes, the transmission line is protected instantaneously by high speed protection relays with carrier equipment.
11.	No. of stay required	:	No Required
12.	Minimum Factor of Safety	:	2.0 (Normal condition)
13.	Size of power conductor mm.	:	ACSR Panther (Conductor dia.30/3.00 Al. + 7/3.00 mm Steel for 2 Phases.
14.	Size of OPGW	:	12 mm. OPGW

Executive Engineer
Electricity Transmission Division
U.P.P.T.C.L.

परियोजना निदेशक
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
प.का.इ., लखनऊ (उ.प्र.)

(पुनीत वर्मा)
उप प्रबंधक (तक.)
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
प.का.इ., लखनऊ

UTTAR PRADESH POWER TRANSMISSION CORPORATION LTD.

LUCKNOW-GORAKHPUR National Highway – (27) crossing chainage is 82+000 & 82+050 km near village RAUZAGOAN for construction of 132KV 2ph S/C MILKIPUR–RAUZAGAON TSS

TRANSMISSION LINE between Angle AP No. – 69 (C60+10) & AP No.70 (C60+10).

Name of Transmission Line: 132KV 2ph S/C MILKIPUR – RAUZAGOAN TSS TRANSMISSION LINE

1.	Situation of the EHV transmission line crossing on National Highway.	On **LUCKNOW - GORAKHPUR** National Highway (NH – 27) near village - RAUZAGAON
2.	Site Plan showing location of crossing (with NHAI boundaries) in reference to NHAI Mileage to be supplied on quadruplicate. .	Crossing Chainage 82+000 & 82+050 km Near
3.	Angle of crossing of the transmission line with the National Highway at crossing point	71^0 00' 00"
4.	The length of the span at the crossing and also those on either side of the crossing	A) Crossing span 248 Mtr. B) Preceding span 358 Mtr. C) Succeeding span 284 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. 69 DC+10 < 35^0 45' 44" LT' 70 DC+10 < 49^0 04' 26" RT'
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 PANTHER Conductor of 30/3.00mm Aluminum + 7/3.00mm Steel for 2 phases. B) 1 No. OPGW 12mm
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.

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9.	System of supply (i.e. Voltage) frequency, No. of phases, whether neutral is earthed or not.	132 KV, AC 50 Hz, 2 Phase S/C with 1 OPGW wires.
10.	1. Height of structure above ground and below ground separately and details of foundation.	A) Tower AP No 69 (DC+10) height above GL 42.22 M, depth below GL 3.00M.
		A) Tower AP No. 70 (DC+10) height above GL 42.22 M depth below GL 3.00M.
11.	Height above ground level of (1) Lowest conductor on insulator.	Tower AP No. 69 DC+10 = 34.995 M. Tower AP No. 70 DC+10 = 34.995M
12.	Height of road level above ground level measured at the foot of the structure.	Tower AP No. 69 DC+10 = 2.80 M. Tower AP No. 70 DC+10 = 2.38 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 = 18.80 M. At Road = 18.80 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. 69 DC+10 = 140.00 M. Tower AP No. 70 DC+10 = 58.00 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 conformly 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	Yes, each structure is earthed.

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	plate.	
21.	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.
22.	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.
23.	Type of insulators used.	Porcelin Disc of electromechanical strength if single insulator = 120 KN.
24.	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 27 M 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 vehicle.	c) Structures are at safe distance from road.
25.	Drawing showing details of crossing disturbance of road, ground or attachment that may be necessary	25. Enclosed.

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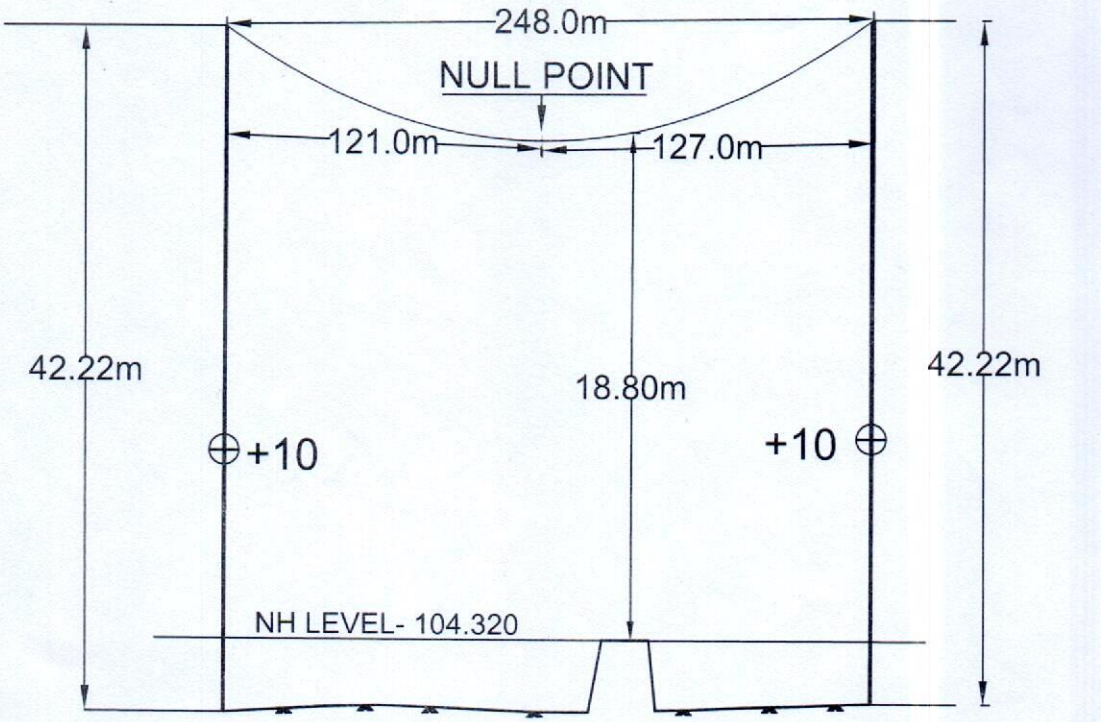
132KV S/C 2PH MILKIPUR - RAUZAGAON TSS T/L

NATIONAL HIGHWAY 27 (LUCKNOW-GORAKHPUR)



Techanical parameter for sag calculation

Sag calculation for conductor = $W L^2/8T$

Where : W= Weight of per unit length of conductor

l = Span length in (m)

T = Tension kg

Weight of conductor = 0.976 kg/m

crossing span = 248m

Tension at 0°C = 2375.0 kg

Tension at 75°C = 1682.0 kg

Sag 0°C = 3.195 m

Sag 75°C = 4.461m

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