

31063/NHAI/RO-UKD/2014/15079

Dated: 01.04.2021

Invitation of Public Comments

Sub:-Four laning of Gagalheri- Saharanpur- Yamunanagar (UP/ Haryana Border) section of NH-73 from Km.33.000 (Design Chainage Km.35.400) to Km.71.640 (Design Chainage Km.86.855) in the state of Uttar Pradesh under NHDP-IV on Hybrid Annuity DBFOT Mode (Package-II)

S.H:- Request for the permission for crossing of 132KV DC Sarsawa-Rampur Maniharan Transmission line between Ch. 67.600 & Ch. 67.700 across NH-73 in District Saharanpur in the State of Uttar Pradesh-reg.

The Executive Engineer, UPPTCL, ETD-II, Saharanpur has submitted the proposal for permission for crossing of 132 KV DC Sarsawa-Rampur Maniharan Transmission line between Ch. 67.600 & Ch. 67.700 across NH-73 in District Saharanpur in the State of Uttar Pradesh.

2. From the submitted proposal, it may be seen that distance of centre of towers (Transmission Structures) on either side from NH Boundary are 60m & 60m respectively. The length of the span at the crossing is 173m. Further, the minimum vertical clearance of 18.368m proposed between the lowest conductor of the proposed line and NH carriageway under maximum sag condition. The proposed transmission line shall be crossing the National Highway at 89 degree.

3. As per the guidelines issued by 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 the ground of public inconvenience, safety and general public interest).

4. In view of the above, comments of the public on the above application are invited to the below mentioned address, which should reach by this office within 30days from the date of publication beyond which no comments shall be entertained.

The Chief General Manager Cum Regional Officer,
National Highways Authority of India
(Ministry of Road, Transport & Highways)
Regional Office-Uttarakhand
House No.-58/37, Balbir Road, Dehradun-248001

Yours faithfully,

(C. K. Sinha)

CGM (Tech.) Cum R.O. Uttarakhand


Encl: (Checklist)

Copy to: 1) Web Admin-NHAI HQ, New Delhi: - 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) PD, PIU-Roorkee:- For information.
4) EE, ETD-II, Saharanpur, UPPTCL: - For information

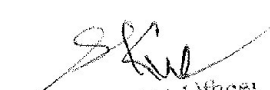
U.P. POWER TRANSMISSION CORP.LTD.


Gagalehri to Yamunanagar N.H-73 Crossing at Chainage 67.600 & 67.700 KM for construction of 132 KV
D/C SARSAWA-RAMPUR MANIHARAN TRANSMISSION LINE between Location No.04 (C+10) &
Location No 05 (C+10).


Name of Transmission Line: 132 KV D/C SARSAWA-RAMPUR MANIHARAN TRANSMISSION LINE.


1.	Situation of the EHV transmission line crossing on National Highway.	On GAGALEHRI – YAMUNANAGAR National Highway – 73 crossing chainage 67.600 & 67.700 KM from GAGALEHRI-YAMUNANAGAR (SAHARANPUR-SARSAWA Section) near village KUMHARHEDA SAHARANPUR
2.	Angle of crossing of the transmission line with the National Highway at crossing point	89° 00' 00"
3.	The length of the span at the crossing and also those on either side of the crossing	A) Crossing span 173 Mtr. B) Preceding span 324 Mtr. (DB+5) C) Succeeding span 303 Mtr. (DB+0)
4.	In the event of the transmission line deviating at any of the supports of the crossing necessitating one of the structures to be corner structures, 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.	Location No. 04 DC+10 < 40° 00' 19' LT' 05 DC+10 < 31° 55' 27' RT'
5.	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.	A) ACSR Panther Conductor dia 21mm, No. of Conductor –03 Nos. Unit Weight 0.976 Kg/m, Ultimate Strength 89.67 kg. B) Aluminum – 30/3 mm, Steel –7/3.1 mm C) Overall Diameter of Earth wire –9.75 mm (Steel 7/3.25mm)), no. of Earth wire - 1 Nos.
6.	Indicate whether the proposed guard is to be restricted to the crossing span or it is to be continued over the adjacent span.	Not Applicable
7.	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.
8.	System of supply (i.e. Voltage) frequency, No. of phases, whether neutral is earthed or not.	132 KV, 50 Hz, 03 Phase Double Circuit with 1 earth wires.
9.	Height of structure above ground and below ground separately and details of foundation.	A) Location No.04 (C+10) height above GL 42.176 M depth below GL 3.80M. A) Location No.05 (C+10) height above GL 42.176 M depth below GL 4.00M.
10.	Height above ground level of (1) Lowest conductor on insulator and (2) guard wire on bracket above ground level.	11. Location No. 04 C+10 = 20.20 M. Location No. 20 C+10 = 20.20 M
11.	Height of road level above ground level measured at the foot of the structure.	12. Location No. 04 C+10 = 3.80 M. Location No. 05 C+10 = 4.00 M.
12.	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	13. At Null Point = At Road = 18.368 M  EXECUTIVE ENGINEER Electricity Transmission Division II U.P. Power Trans. Corp. Ltd. SAHARANPUR

3.	Ultimate Tensile stress of the steel wire used for guard for earth wire in tones per Sq. Cms.	14. Not applicable
4.	Approximate distance of each of the structures to the nearest NH Boundary (marked by pillars/ Fencing) measured along the alignment of the transmission line.	15. Location No. 04 C+10 = 60- M. Location No. 05 C+10 = 60 M.
5.	Are the proposed structure is in NH boundary.	16. Outside NH boundary.
6.	Are approved anticlimbing devices and warning notices provided on the structures erected.	17. Danger boards are provided on both the Towers.
	Dimensions and types of brackets used for the cross arms as well as for the guards wires.	18. Not applicable for transmission Line.
7.	In each structure of the crossing span independently earthed by means of an earth plate.	19. Yes, each structure is earthed.
8.	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).	20. No. guys or stays are provided structures are self supporting.
9.	If no guard is provided, in the transmission line protected by device to ensure instantaneous isolation is conduction?	21. Yes, the transmission line is protected instantaneously by high speed protection relays with carrier equipment.
0.	Type of insulators used.	22. Glass discs of electromechanical strength if single disc = 120 KN.
1.	To reduce the hazard to life and property.	b) Warning boards are provided.
2.	Supporting structure including guys, from the danger of being struck by moving road vehicle.	c) Structures are at safe distance from road.
d)	Drawing showing details of crossing disturbance of road, ground or attachment that may be necessary (To be supplied in quadruplicate.)	23. Enclosed.


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Electy. Trans. Sub Division
U.P. Power Corp. Ltd.
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परियोजना निदेशक / Project Director
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National Highways Authority of India
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CHECK-LIST


FOR NH -73 ROAD CROSSING BY 132 D/C SARSAWA-RAMPUR MANIHARAN T/ LINE

NO.	DESCRIPTION	DETAILS
1.	National Highway Number	NH-73
2.	Name of Crossing	GAGALEHRI-YAMUNANAGAR
3.	SYSTEM OF SUPPLY (i.e VOLTAGE) FREQUENCY NO.OF PHASES,WHETHER NEUTRAL IS EARTHED OR NOT	132K.V.S/C 3 phase 50 cycles A.C. AND 1 EARTH WIRE
4.	Position of towers	BETWEEN LOC. NO.04 (C+10) & 05 (C+10)
5.	NORMAL SPAN AT LAP WING CONDUCTOR	380 M.
6.	MAX.SAG AT NORMAL SPAN	8.843 M.
7.	CROSSING SPAN	173 M.
8.	Preceding span	324 M.
9.	Succeeding span	303 M.
10.	Height of structure above ground and below ground separately and details of foundation	A) Location No.04 (C+10) height above GL 42.176 M depth below GL 3.80 B) Location No.05(C+10) height above GL 42.176 M depth below GL 4.00
11.	SAG OF 3*3 PANTHER ACSR CONDUCTOR SIZE 30/3.00 + 7/3.10 MM	$8.843 * (173)^2 / (380)^2 + 0.30(\text{sag error}) = 1.832$
12.	CLEARANCE OVER ROAD	18.368 M.
13.	Height above ground level of (1) Lowest conductor on insulator and (2) guard wire on bracket above ground level	20.20M.
14.	Height of road level above ground level measured at the foot of the structure.	Location No. 04 C+10 = 3.80.M. Location No. 05 C+10 = 4.00. M
15.	Angle of road crossing	89° 00' 00"
16.	Distance from NH Boundary From center of tower	Loc. No. 04(C+10) = 60 M. Loc. No. .05 (C+10) = 60 M
17.	Perpendicular distance from center of tower to center of road	Loc. No. 04(C+10) = 90 M. Loc. No. .05 (C+10) = 83 M
18.	Protection of assembly to the line	Anti Climbing devices provided
19.	No. of stay required	NO.
20.	Minimum Factor of Safety	2.0


परियोजना निदेशक / Project Director
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Ministry of India


EXECUTIVE ENGINEER
Electricity Transmission Division
Power, Energy, Trans. Corp. Ltd.

21.	Size of power conductor mm.	
22.	Size of Earth Wire	Steel 7/3.25 (Overall Diameter - 9.75 mm)
23.	FOUNDATION TYPE	FS
24.	PLAN PAPER DIAGRAM	PROFILE(ENCLOSED)
25.	EARTHING	PIPE TYPE EARTHED


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