



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

परियोजना कार्यन्वयन इकाई - दरभंगा

H/o श्री एस.एन.मिश्रा, वार्ड नं०-10, प्रोफेसर कॉलोनी, दिग्घी पश्चिम, दरभंगा (बिहार)

National Highways Authority of India

(Ministry of Road Transport & Highways, Govt. of India)

Project Implementation Unit, Darbhanga

H/o : Shri S. N. Mishra, Ward No.-10, Professor Colony Dighee West, Darbhanga (Bihar) - 846004

दूरभाष/फैक्स/Tel./Fax : 06272-250194

ई-मेल/E-mail : darbhanga@nhai.org

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piu_darbhanga@rediffmail.com



भारतमाला

प्रगति के पथ पर अग्रसर

No.- NHAI/DBG/Utility/MoRTH/19/574

Date: 08.08.2019

To,

The Chief engineer cum Regional Officer,

Ministry of Road Transport and Highway

Chakmusa near Bhawani Mandir on NH-98

Patna-801105.

Sub.- Proposal for permission for overhead crossing for construction of 400KV-D/C Darbhanga-Sitamarhi (PMTL) Mithilanchal transmission line in Muzaffarpur-Sonbarsa section of NH-22 (Old NH-77) between road KM Stone 41 & 42 near Prem Nagar village, in Sitamarhi district of Bihar (Reg-Overhead Crossing permission).

Ref.-(1) Powergrid Mithilanchal transmission Ltd. letter no-E/PMTL/STMH/DBG/NHCRSS/NH-77 dated 19.09.2018.
(2) This office letter no. 38020/02/2014/NHAI/PIU/MUZ/1293 dated 29.10.2018.
(3) This office letter no. 38020/02/2014/NHAI/PIU/MUZ/72 dated 07.02.2019.
(4) IE letter no. ICT/NHAI/NH-77/MS/1665 dated 16.02.2019.
(5) PMTL letter no. ER-1/PMTL/DBG-STMH/NHAI dated 25.05.2019.

Sir,

Vide letter under reference the GM, Powergrid Mithilanchal transmission Ltd. has submitted a proposal vide letter u/r (1) for permission for overhead crossing for construction of 400KV D/C in Muzaffarpur-Sonbarsa section of NH-22 (Old NH-77) between road KM Stone 41 & 42.

Now vide this office letter u/r (2) it was asked to submit the proposal according to MoRTH circular no. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016 and accordingly the revised proposal has been received vide PMTL letter no. ER-1/PMTL/DBG-STMH/NHAI dated 25.05.2019. The ground report has also been obtained from the concerned Independent engineer vide letter u/r (4). The calculation of licence fee has been attached and the performance security is not required since the towers in this proposal does not fall in the RoW width, although the undertaking for the same have been obtained from the concerned department and attached.

Considering the urgency and public interest the proposal is hereby submitted with recommendation for necessary approval.

Thanking you.

Encl: Proposal in 03 sets (01 Original).

Yours faithfully

(Manoj Kumar Pandey)
GM(T) cum Project Director

13/8
19/08/2019
G.T.A.

No. RW/PAT/NH/27(57)/41 & 42/Over-Head Crossing/2019 - 1061

Government of India
Ministry of Road Transport & Highways
(Office of Chief Engineer cum Regional officer-Patna)
Vill-Chakmusa, Near Nakati Bhawani mandir on NH-98
Post- Mohammadpur Kurji Via Khagaul, Patna- 801105, Bihar

Dated-01.10.2019

Invitation of public comments

Sub:- Proposal for permission for overhead crossing for construction of 400KV D/C Darbhanga -Sitamarhi (PMTL) Mithilanchal transmission line in Muzaffarpur-Sonbarsa section of NH-22 (old NH-77) between road KM Stone 41 & 42 near Prem Nagar Village, in Sitamarhi district of Bihar (Reg.- Over-Head Crossing Permssion).

Sir,

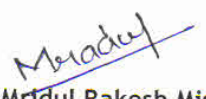
Power Grid Mithilanchal Transmission Limited has submitted the subject proposal for Power Grid Mithilanchal Transmission line across Chainage between Km.-53 & 54 of NH-27(57) for proposed project of Power Grid Mithilanchal Transmission Limited through PD (NHAI), PIU-Begusarai, (Bihar) Patna vide letter no.- NHAI/DBG/Utility/MoRTH/19/574 dated 08.08.2019 to this office.

2. In this regard, objection of the public if any on grounds of public inconvenience, safety and general public interest, are invited on the subject proposal and hard copy of the same should reach to below mentioned address within 30 days from the day of uploading, beyond which no objection will be considered.

Address:-

The CE-Regional Office,
Ministry of Road Transport & Highways,
(Office of the Chief Engineer cum Regional officer, Patna)
Vill.- Chakmusa, Post.- Janipur, Patna, Bihar-801105
Near Nakati Bhawani Mandir on NH-98 (New NH-139)

Yours Faithfully,


(Mridul Rakesh Mishra)
Assistant Executive Engineer,
For CE-Regional officer,
Patna.

Copy to:-

1. Senior Technical Director, NIC, Transport Bhawan, New Delhi-110001.- For uploading on Ministry's website.
2. Project Director, PIU - Darbhanga, H/o: Shri S.N. Mishra, Ward No.-10, Professor colony Dighee west, Darbhanga - 846004.- For information and necessary action.

POWERGRID MITHILANCHAL TRANSMISSION LTD.

Crossing of National Highway-77 (Muzaffarpur - Sitamarhi) for the construction of 400 KV D/C Triple Snowbird Darbhanga - Sitamarhi(New) T/L

| S.NO | DESCRIPTION | DETAILS |
|------|---|--|
| 1 | Situation of EHV Transmission line crossing on National Highway | On National Highway 77 (Muzaffarpur - Sitamarhi) near Prem Nagar - Sitamarhi |
| 2 | Site plan showing location of crossing (with Highway boundaries) in reference to Highway Mileage and Telegraph posts or electric structure on electric transaction are to be supplied on quaduplicate | Drawing No. TPL/PGCIL/NH-77/CrossingProposal/01 is enclosed herewith. |
| 3 | Angle of crossing of the transmission line with the National Highway at crossing point | At 89° angle. |
| 4 | The length of the span at the crossing and also those on either side of the crossing | Crossing Span=207 Mtr. Preceeding Span=330 Mtr. Succeeding Span=283 Mtr |
| 5 | In the event of the transmission line deviating at any of the supports crossing necessitating one of the structure to be a corner structures, state angle of such deviation. The deviation of the span on either side of the crossing shall be illustrated in the sketch mentioned in the clause 3 above. | Angle Tower Loc No 64/0 : (DD+9), / 27°21'35"LT 65/0 : (DD+0), / 10°14'44" RT |
| 6 | The number, size and the material of the conductors and wires crossing the tracks 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 SNOWBIRD Conductor dia 30.56 mm, No. of Conductor - 6 x 3 Nos.Unit weight 1.657 kg/m B) Aluminium - 42/3.99 mm, Steel - 7/2.21 mm C) Earthwire - 7/3.66 mm (Steel), no. of Earthwire - 1 No and 1 No OPGW. |
| 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, as it is not applicable for EHV transmission line. |
| 8 | The deviation of the span on either side on the crossing shall be illustrated in the sketch mentioned in the clause 3 above. | Enclosed in the Drawing. |
| 9 | System of supply (i.e voltage) frequency , No of phases , whether neutral is earthed or not. | 400 KV, 50Hz, 3 Phase Double Circuit with 1 earth wires and 1 OPGW. |
| 10 | Height of structure above ground and below ground separately and details of foundation. | Angle Tower Location AP 64/0; Tower type -DD+9 M; Height above GL- 59.20 MTr, Foundation Depth below GL-3.00 M. Angle Tower Location AP 65/0; Tower type -DD+0 M; Height above GL- 50.20 MTr, Foundation Depth below GL-3.00 M. |
| 11 | Height above ground level of (1) Lowest conductor on insulator and (2) guard wire on bracket above ground level. | Angle Tower Location AP64/0; Tower Type DD+9 M; Height above GL- to lowest conductor point=19.30 Mtr. Angle Tower Location AP65/0; Tower Type DD+0 M; Height above GL- to lowest conductor point=19.30 Mtr |
| 12 | Height of road level above ground level measured at the foot of the structure | Angle Tower Loc No AP 64/0 (DD+9) : 3.71 Mtrs AP 65/0 (DD+0) : 3.07 Mtrs |
| 13 | Clearance under maximum sag condition between road level and the lowest live conductors & between road level and lowest guard wire(state if 'box' tpe guarding is provided in the case of adoptions of un-earthed neutral system). | AT crossing point=19.30 Mtr |

Approved
Neween Kumar
Field Engineer

Mechan
मुनुजा खान/Murtuza Khan
महाप्रबंधक/General Manager
पावरग्रिड, मुजफ्फरपुर उप-केन्द्र
POWERGRID, MUZAFFARPUR SUB-STATION



Project Director
N.H.A.I.
MU-Darbhanga

| | | |
|----|--|--|
| 14 | Ultimate tensile stress of the steel wire used for guard for earth wire in tones per sq. Cms. | Not applicable. |
| 15 | Approximatly distance of each of the structures to the nearest NH boundary (marked by pillars /Fencing)measured along the alingment of the transmission line | Angle Tower Location No. AP-64/0, DD+9 = 108.294 M AP-65/0, DD+0 = 89.506 M |
| 16 | Are the proposed structure is in NH boundary | Out side the NH boundary. |
| 17 | Are approved ACD devices and warning notices provided on the erected structures | Anticlimbing devices & Warning boards are provided on both the Towers. |
| 18 | Estimated block time to finish the job. | Not required, we shall take precautions to provide supproting structures both side of roads. |
| 19 | Dimensions and types of brackets used for the cross arms as well as guard wires. | Please see the enclosed drawing. Guard wire not applicable for EHV transmission line. |
| 20 | In each strcures of the crossing span independently earthed by means of an earth plate. | Yes, each structures will be independently earthed by pipe type of earthing as shown in the drawing. |
| 21 | In each strcures supported by means of stages in three directions give the size of guy wires (the neglected in calculationg the strength of structures) | No guys or stays are provided as strucures are self supported |
| 22 | If no guard wire is provided, in the transmission line protected by device to ensure instanтенous isolation is conduction. | Yes, the transmission line is protected Instanteously by high speed protection relays with carrier equipment |
| 23 | Type of Insulator used. | 210 KN Composite Long rod insulators. |
| 24 | State the mentioned of maintainance to be employed to ensure the following protections: | |
| a. | From overhanging or decaying tress which might fall on the line. | Tree clearance to a width of 23 Mtr is kept on both side from the center of the tower. |
| b. | To reduce the hazzard to life and property. | Warning boards are provided. |
| c. | supporting structure includeing guys, from the danger of being struck by moving road vehicle. | Structures are at safe distance from road. |
| 25 | Drawing showing details of crossing distrubance of road ground or attachment that may be necessary (to be quadruplicate) | Enclosed |

Naureen
Naureen Kerman
Field Engineer

Mpham

मर्तुजा खान/Murtuza Khan
महाप्रबंधक/General Manager
पावरग्रिड, मुजफ्फरपुर उप-केंद्र
POWERGRID, MUZAFFARPUR SUB-STATION



[Signature]
Project Director
N.H.A.I.
Muzaffarpur