



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)
National Highway Authority of India
(Ministry of Road Transport and Highway Govt. of India)
परियोजना कार्यान्वयन इकाई-छपरा
Project Implementation Unit - Chhapra

मकान-श्री मति गायत्री देवी, ए1, प्रभुनाथ नगर, पोस्ट-तारी, थाना-मुफसिल, जिला-सारन (छपरा), बिहार, पिन-841301
H/o- Smt. Gayatri Devi, A1, Prabhunath Nagar, PO-Tari, PS-Mufsil, District-Saran (Chhapra), Bihar, Pin - 841301



Ph: 06152-248058 & 248052
Email: hajipur@nhai.org,
nhaichhapra@gmail.com

No:NHAI/PIU/Chhapra/NH-102/US/2021/ 944

Date: 22.10.2021

Invitation of Public Comments

Sub: Two Laning with Paved shoulder of Chhapra-Rewaghat-Muzaffarpur section of NH-102 from Km 1+300 to Km 74+200 (Existing Chainage) and Km 1+300 to Km 74+359 (Design Chainage), (Total Design length 73.049 Kms.) in the state of Bihar under NHDP- IV on EPC mode: Proposal for Approval for NHAI Road Crossing at AP-24-AP-24A.

The Executive Engineer, M/s Bihar State Power Transmission Company Ltd has submitted the proposal for NOC for the crossing of transmission line 220KV D/C, Amnor-Digha Transmission line over NH-102(Chhapra-Rewaghat-Muzzafarpur).

2. From the submitted proposal, it is seen that:-

- (i) The change of above said location is 8+515
- (ii) ROW of NH-102 at that location is approx. 20 mtr
- (iii) Span of crossing transmission line is 240 mtr
- (iv) Angle of crossing is 90 degree
- (v) Distance of proposed structure from centre line of the road project is 161.21 mtr LHS and 89.19 mtr RHS.
- (vi) Vertical clearance between lowest conductor of proposed line and BT surface of road is 15.01 mtr

3. Since the vertical clearance is 15.01 mtr which is more than 14 mtr as per the prevailing norms and lateral clearance is 240 mtr which is more than ROW which is 20 mtr. Presently project is 2-lane with paved shoulder and further development as four lane can be easily accommodated if required.

4. 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).

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.

Project Director
National Highways Authority of India,
PIU-Chhapra
H/o- Gayatri Devi, Plot No:-A1
Parbhunath Nagar, P.o- Tari,
P.s- Muffasil, Dist: Saran, Pin:-841301
E-mail: nhaichhapra@gmail.com

Encl: As above.

(Bibhuti Bhushan Kumar)
Project Director

Copy to:

1. Web Admin, NHAI, HQ-with a request for uploading on the NHAI website.
2. The Technical Director, NIC, Transport Bhawan, New Delhi-with a request for uploading on Ministry's website. Email: pk.jain@nic.in, mansoor@nic.in, shashi@nic.in, lokesh.kumar92@nic.in



Bihar State Power Transmission Company LTD.
Office of Electrical Executive Engineer
Transmission Division, Saran
132/33 KV GSS Campus, Chapra, Dist.-Saran, 841301 (Bihar)

Letter No. 64 /Saran

Email: eeetdsaran@gmail.com

Dt. - 03/02/2020

To,

Project Director,

National Highway Authority of India,
Chhapra
Patna (Bihar).

Sub: Power line crossing of 220 KV D/C AMNOUR-DIGHA Transmission line Bihar State Power Transmission Limited (Under Construction) Over NH-722, near village-Aloni of Tehsil Garkha, Dist-Chhapra AP-24 – AP24A OF BSPTCL - Proposal for approval for NHAI Road Crossing at AP-24-AP 24A.Reg.

Dear Sir,

The Subject transmission line construction is the initiative by Govt. Of India, Ministry of Power on tariff based competitive bidding by Independent Transmission Companies on built own operate and maintain basis. Govt. of India, Ministry of Power granted prior approval under Section 68(1) of Electricity Act-2003 vide Vender no: (Copy enclosed) for the construction of 220 KV D/C Amnour-Digha Transmission line and operation maintenance of the Said project.

220 KV D/C Amnour-Digha Transmission line proposed to the cross the NATIONAL HIGHWAY No-722, (Muzaffarpur-Chhapra) near village-Aloni of Tehsil Garkha, Dist-Chhapra

The necessary clearance between the top of the road and bottom conductor of our line being crossed have been ensured in the proposal as per the applicable IE rules 1956...All the necessary document are here with furnished in two sets for your kind perusal. In the events, if your office intends to have a field visit for the joint verification, kindly depute your representative for the same intimation to the undersigned for the arranging same.

The Following documents are furnished:

- The Crossing Profile for the 220 KV Amonur-Digha Transmission line proposed crossing drawing.
- Checklist for crossing Detail.
- Tower Spotting Data of 220 KV D/C Amonur-Digha Transmission Line
- Single Line of Diagram of the Crossing.
- Prior Approval Granted by GOI
- Undertaking.
- Draft Agreement.


Yours Faithfully

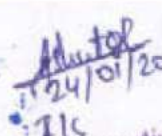
Vijai Kumar
03/02/2020
(Vishal Kumar)
Electrical Executive Engineer

[Signature]
05.02.2020
a

CHECK LIST		
DETAILS OF CONSTRUCTION 220 KV D/C AMNOUR-DIGHA TRANSMISSION LINE ACROSS THE NATIONAL HIGHWAY NO-722 B/W AP 24-24A		
Sr. No	Description	Details
1	1.1 Name of Applicant	Bihar State Power Transmission Company limited 132/33 Kv GSS Campus, Bada Telpa, Chapara, Saran, Bihar 841301
	1.2 Telephone and Fax	
	1.3 Details and Purpose of erecting towers	Constuction of 220 KV Amnour-Digha D/C Tr. Line
	1.4 Details regarding Over Head Line	
	a) Situation of Crossing	Between proposed structure AP24-AP24A
	b) Distance of Proposed Structure from centre of the road	AP - 24 to 161.21 M AP -24A to 81.81M
	c) Span at the crossing	Crossing Span-240 M
	d) Angle of Crossing	90°00'00"
	e) Structure used to cross the existing NH and its deviation angle	AP 24-DD+0, 32°07'55"RT AP 24A-DD+6- 00°00'00"
2	Details regarding road alignment	
	2.1 Name of Road	CHAPARA-MUZAFFARPUR
	2.2 Category of Road	NH -722
	2.3 ROW	35 M
	2.4 Black Topped Carriage Way Width	Two lane
	2.5 Road Boundary	12 M LEFT SIDE & 14 M RIGHT SIDE
	2.6 All these detail are to be shown on the drawing	Yes shown in drawing
	2.7 Location of 220 KV D/C line along with the crossing to mentioned	Between AP24-AP 24A & Between KM stone (64-65)
3	Details of to be supplied on layout drawing (3 Copies)	Drawing attached
4	Ground clearance under maximum sag condition between lowest conductor of proposed line and existing National Highway	15.01 Mtr (From top of BT surface of NH)
5	Conductor used to cross the National Highway with complete technical details of conductor	i) Conductor Name: ACSR Hexa-Zebra ii) Cable Diameter-28.62 mm iii) Cross Sectional Area: 484.5 Sq. mm iv) Unit Weight: 1.621 Kg/m v) Modulus of Elasticity: 6322 Kg/Sq mm vi) Ultimate tensile strength: 13289 Kg vii) Co-efficient of linear Expansion: 0.0000193
6	Document/Drawing enclosed	
	6.1 Soft copy of Profile	Enclosed
	6.2 Tower Spotting data of 220 kv D/C Amnour-Digha Tr. Line	Enclosed
	6.3 Single line diagram of the crossing	Enclosed
	6.4 Prior approval granted by GOI, MoP under section 68,	Enclosed
7	Undertaking from the applicant	
	7.1 Draft Agreement	Enclosed
	7.2 Undertaking as per norms (MORT& H, IRC32-1969, IS 5613 (Part3/Sec2)	Enclosed
8	CERTIFICATION	
	8.1 This is to certify that no Govt. road shall be occupied by BSPTCL except for the purpose of Electric line across or along the road	Confirmed
	8.2 This is to certify that the work shall be done in accordance with Govt. Rules and Regulations	Confirmed
	8.3 This is to certify that all required cost and fees as per Rules and Regulation confirmed of the Govt. will be deposited timely	Confirmed

Date & Place:

 Basim Sardar
 Assistant Manager (Survey)
 Associated Power Transmission Co. Ltd.
 Pvt. limited

 Anil Kumar
 24/01/2020
 Assistant Executive Engineer
 Bihar State Power Transmission Co. Ltd.
 Transmission Sub. Division-CHAPRA

Vajihal Kumar
 03/02/2020
 Electrical Executive Engineer
 Transmission Division, Saran



220/219210
Bihar 2266
AGREEMENT FOR CROSSING OF 220 kV D/C AMNOUR-DIGHA 133
HIGH VOLTAGE OVERHEAD TRANSMISSION LINE OVER
NATIONAL HIGHWAY.
श्री १३३/२२६६
श्री प्रसाद यादव

This indenture made the of month of year Two thousand, between the **Project Director National Highway Authority of India Patna Bihar** of the one part and the Project Head Bihar State Power Transmission Company limited incorporated under the provisions of the Indian Companies Act 1913 (VII of 1913), and having its registered office in **132/33 Kv GSS Campus, Bada Telpa, Chhapra, Saran, Bihar 841301** (hereinafter referred as "The Company" which expression shall, unless excluded by or repugnant to context, include its successors and assigns) of the other part.

Whereas the Company applied to the Project Director, National Highway Authority of India, Patna, Bihar (herein after referred to as "The Project Director. NHAI, Patna") for permission to erection 220 kV D/C Amnour -Digha high voltage Transmission towers for overhead conductors across National Highway No. 722 (Chapara - Muzaffarpur) Milestone (64-65) near Village " Aloni.

Vijal Kumar
03/02/2020.

Which is in charge of the National Highway Department and within the company's licensed area in the **Patna** Division.

And whereas the said permission has been granted by the Project Director, NHAI, Patna. subject to the following terms and conditions:-

Now this indenture witnessed as follows:-

1. The Extra High Voltage Transmission towers shall be Erected by the company on either side of the road whichever is convenient and in such places as would neither within formation width nor the kerning of the road end as may be approved by the **Project Director, NHAI Patna**. The said Extra High Voltage transmission tower and the overhead conductor shall be maintained in good condition in accordance with the provisions of the Indian Electricity Act. 1910 Law applicable for the time being in force and the rules the under and to the entire satisfaction in all respect of the **Project Director, NHAI Patna**
2. All Extra High Voltage transmission tower erected close to the road kerbing, shall be painted with the white or aluminum paint up to a height of at least ten feet from the ground Level, Such painting being renewed as may be necessary to keep it in good condition so as to be clearly visible to drivers of vehicle at all time.
3. Where the surface of the road dug up for the holes, made for the tower is of a higher type such as asphalt, tar, cement concrete etc. The work or properly filling the holes shall be carried out by Government at the entire cost of the company and the terms. if Any, kerbing or any other part of mild which may be dug up or disturbed while erecting the tower or carrying our repair; to or removing the same shall be restored by the Project Director, NHAI, Patna, to their original condition at the entire cost of company which shall pay the same forth with demand and which, if unpaid can be recovered us arrears of land revenue. The decision of the Project Director, NHAI Patna as to the amount of the cost incurred, shall be final. Where the surface is other than higher type as aforesaid, the work shall be carried out by the company as its cost to the entire satisfaction of the Project Director, NHAI, Patna or his representative.
4. The company shall have no right or interest whatever in or over the Said road except merely the license to enter upon it, for the Purpose of carrying out necessary operations on its plant during the continuance of the agreement.
5. The government does not guarantee the preservation of the company's property from injury.

Vijal Kumar
03/02/2020

Electrical Executive Engineer
Transmission Division, Saran

6. The company shall be solely Liable for any loss or injury which any person may sustain by reason of any defect or want of any repaired in any of its plants, or as a result of any carelessness or negligence or misconduct of its employees in the erection, setting up or use of the plants & the company shall indemnify & keep indemnified the Government against all claims, demands and liabilities & expenses to which Government may be put to on account of any claim made in behalf.
7. The company shall, at its own expenses maintain High Voltage transmission tower for overhead line in a proper condition of repairs and make a good immediately & damage which might be caused the surface or road/roadside land or to other property of government to entire satisfaction of the project Director, NHAI, Patna or his representative.
8. Subject to the provisions of sub section (3) and (4) of section 18 of the Indian Electricity Act. 1910 no tree on the roadside shall be cut or Mutilated in any way by the Company without obtaining the previous permission in writing of the Project Director without paying to Government such Compensations as may be fixed by the Project Director for so doing, the lopped of wood or branches in all cases being handed over by the company to Project Director, Patna. The ends of the lopped off branches shall be neatly sawn off and coated with tar by the company. The said work shall be done by company in a manner approved by the Project Director or his representative.
9. All overhead conductors, which may be spur-up across a road shall provide a clear headway of not less the 15.0 meters from the level of the road. But where, in the opinion of the Project Director, NHAI, Patna, it is found as any time after construction of the work that the clearance is insufficient for any reason, the company shall at its own cast without any claim for compensation, raise the height of the overhead lines whenever called upon to do so.
10. The company shall, at its own cost and without claim for compensation, remove the towers, if and when so required by the Project Director, NHAI, Patna on three month notice.
11. In the event of its being at any time found necessary to carry out any alterations to the road or any other land which may necessitate the removal and re erection of the high voltage transmission tower, the cost of removal and re-erection of the same shall be borne by the company.
12. Government shall, at all times, be at liberty to terminate this agreement by giving three months' notice to that effect in which case the company shall not be entitled to any compensation on account of the termination of this agreement.

Vijal Kumar
03/02/2020

Electrical Executive Engineer
Transmission Division, Sara

13. On the Company's failure to observe any of the condition of this agreement, the Project Director, NHAI, Patna shall be at liberty to remove the High voltage transmission tower on the expiry of three months' Notice, and the company shall be liable for the expenses so incurred by the Project Director, NHAI, Patna
14. If and whenever any part of the sum payable by the company under this agreement shall be in arrears, the same shall be recoverable from the company as arrears of land revenue without prejudice to any other remedies which may be open to Government.
15. The company shall bear the cost of the preparation. Stamping and execution of this agreement.
16. Any difference of opinion between the company and the Project Director, NHAI, Patna, shall be referred to the Chief Engineer (N.H.) and his decision shall be final and binding on the company.
17. Any notice or other document to be given to or serve upon the Company may be given or served on behalf of Government by the Project Director, NHAI, Patna and any such notice or document shall be deemed to have been duly given to or served on the Company, if it is delivered at the registered office of the company or sent by registered post to the registered address for the being of the company.
18. Government may, if they think fit in special circumstance extend the period of notice referred to in clause 11, 13 and 14 up to six months.

For laying electric power/ line or erecting high voltage transmission tower, the standards for vertical and horizontal clearance of the overhead electric power line and telecommunication lines and related to Roads. This covers the guidelines for the Power line transmitting 110 Volts to 650 Volts. In respect of high tension power lines, the following are the instruction for guidance and adoption in the field.

2 Lateral and Vertical Clearance of HT lines.

2.1 The overhead lines and their supporting towers should ordinarily be placed at the extreme edge of the road land boundary; In any case, these shall be at-least 10 to 12 meters away from the edge of the existing shoulders of the extreme traffic lane. where the existing roadways is narrower than the minimum required according to standards or where the widening is proposed for any reason, the lateral clearance shall be reckoned with the respect to ultimate roadway. The Pylons of EHT lines along /crossing the road shall be located outside N.H. land:

Vijay Kumar
03/02/2020.

Electrical Executive Engineer
Transmission Division, Patna

2.2 In mountainous country the overhead lines should be created preferably on the valley side and as far away as practicable.

2.3 The vertical clearance of the overhead lines crossing the road shall be reckoned from the top of crown of the road taking into account the anticipated final top level due to future raising of road level, strengthening of pavement, etc, the actual ground clearance of extra high tension lines for voltage above 650 volts varies depending upon the Voltage transmitted and these are stipulated in Indian Standard codes is 5613- 1976 part I to IV and Indian Elam-icily Rules 1956 as under-

<u>Voltage</u>	<u>Vertical Clerances</u>
66 KV	6100 mm
132 KV	6100 mm
220 KV	7015 mm
400 KV	8840 mm
765 KV	18880 mm

3) It is necessary that the Electrical construction Departments have proper pre-planning and prior-consultation with the highway authorities in locating the lines. This apart from preventing disruption to the highway construction and maintenance work on hand may avoid costly re-location / shifting of the lines in future when highway development works are taken up. It shall be responsibility of the construction department to ensure the safety of the highway traffic against the hazards of the extra high voltage lines.

4) In this connection the State Govt. authorities dealing with N.H. are requested to establish close liaison with the concerned electricity authorities especially when the National Highway and Electricity authority expansion and developmental programs are under finalization for setting the appropriate location of the lines keeping in view of the likely development/improvements of the National Highway. This would obviate the need for shifting/relaying utilities when the national Highway works are taken up in future. For actual lying of lines, the concerned highway engineers in charge shall ensure Proper location as mentioned in Para 2 this letter.

5) The contents of this letter may be brought to the notice of all the field officer so that these instructions are strictly followed.

Vijal Kumar
03/02/2020

Electrical Executive Engineer
Transmission Division, Saran

This agreement has been executed in duplicate and each party to this agreement has retained one stamped copy each.

In the witness of **Project Director, National Highway Authority of India, Patana, Bihar** for and on behalf of the Government of Bihar and set his hand and the seal of his office hereto.

Signed, sealed and delivered by

NHAI, Patna

For and on behalf of the

Government of Bihar

OFFICAL SEAL

1.....

2.....

And

In witness where of project Head, BSPTCL, Chhapra for and on behalf the company in pursuance of the resolution of the board of Bihar State Power Transmission Company Limited has set their hands and the seal of the company have been affixed hereto the day and year above written.

Vijay Kumar 02/02/2020 **Electrical Executive Engineer**
Transmission Division, Saran

Signed, sealed and delivered by

Bihar State Power Transmission Company Limited
EEE, Transmission Division, Chhapra.

1.....

2.....

Original duplicate



Bihar State Power Transmission Company LTD.
Office of Electrical Executive Engineer
Transmission Division, Saran
132/33 KV GSS Campus, Chapra, Dist.-Saran, 841301 (Bihar)

Email: eeetdsaran@gmail.com

Letter No.- /Saran

Dt.— 03/02/2020

CERTIFICATE

I, Vishal Kumar (EEE), BSPTCL, Chhapra do hereby certify in respect of our proposed Erection of overhead 220 kV transmission line for crossing on NH -722 at km. 64.901 near village - Aloni, Tehsil - Garkha, District - Saran (Bihar) as per enclosed Map / Drawing and further:

1. Certified that no other structure will be erected nor any other service Rendered within the ROW of NH - 722 without prior permission of NHAI.

Vishal Kumar
03/02/2020.

Electrical Executive Engineer
Transmission Division, Saran



बिहार BIHAR

REF

2206
६-१२-१८

Y 087934

Date

नरेश्वर प्रसाद यादव

CONSTRUCTION OF 220 KV D/C AMNOUR - DIGHA
OVERHEAD TRANSMISSION LINE CROSSING OVER NH-722 AT CH 64.901 KM

UNDERTAKING

1. An undertaking by BSPTCL is given that work shall be executed after approval of competent authority. Failing which MOSRT&H/State PWD/NHAI or his representative shall have the right to remove the 220 KV D/C Amnaur-Digha transmission line at risk and cost of BSPTCL.
2. In lieu of the proposal seeking permission for laying 220 KV D/C Amnaur-Digha transmission line across the National Highway-722 (Chapara- Muzaffarpur) between KM stone between 64 and 65 as stated in the proposal. We hereby confirm that we will take care of existing service lines that have been laid previously if line.
3. We are agreeable to the terms and conditions laid down in the draft agreement and hereby confirm the signing of agreement within 30 days of receipt of the approval from NHAI. We also confirm to deposit the statutory fees/user charges/Bank Guarantee as applicable and agreed in the agreement at the time of signing of the agreement.
4. Bihar State Power Transmission Limited is hereby undertaking that we shall take care of all existing utilities during laying of 220 KV D/C Amnaur-Digha Transmission line, Bihar State Power Transmission Limited will pay all expenses to restore the same to its original condition to concern agency or NHAI.

Vijal Kumar
03/02/2020

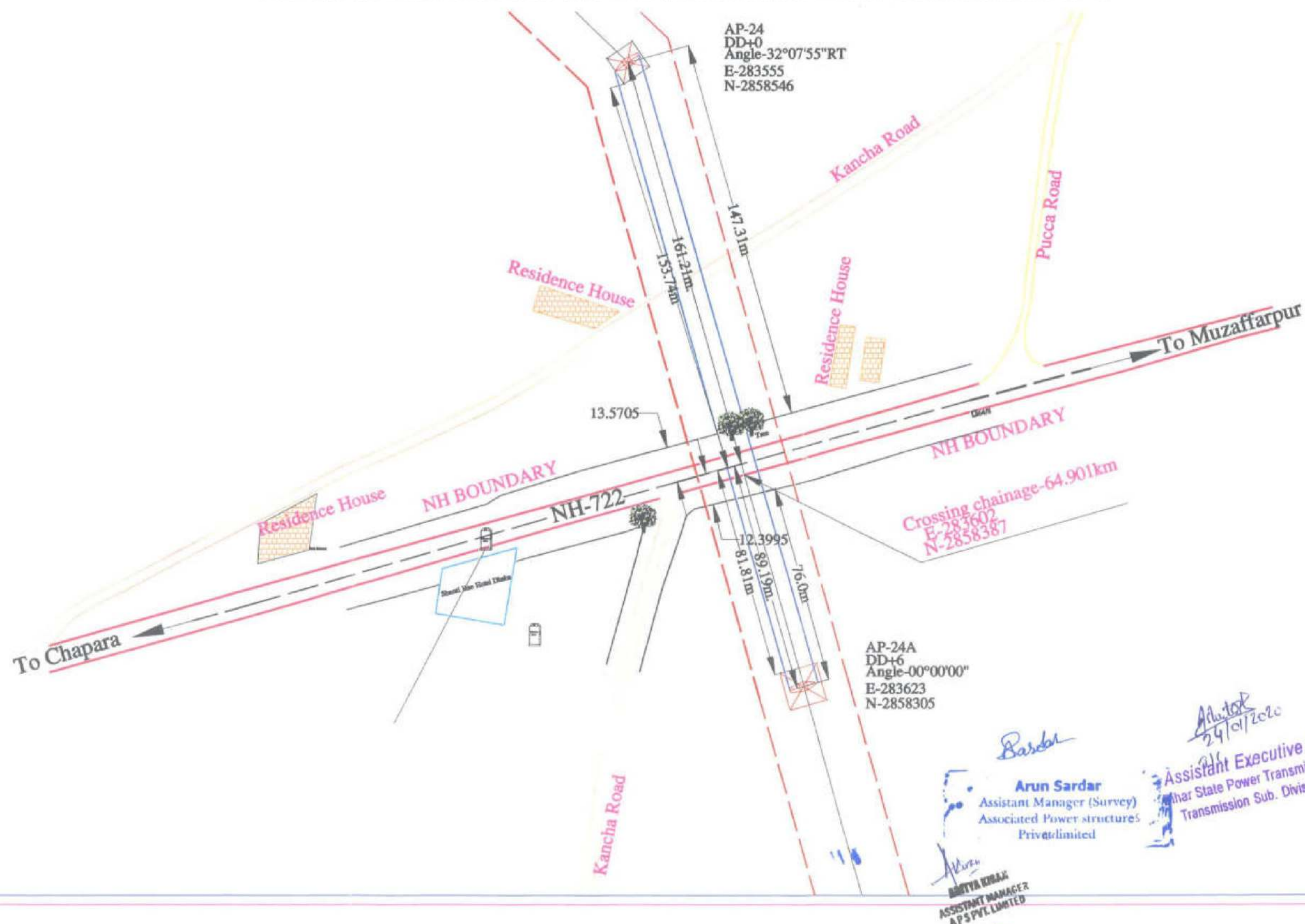
5. Bihar State Power Transmission Limited. Is hereby undertaking take we shall take proper Insurance coverage (Indemnity) for prospects damage and claims during crossing of National Highway No-722 between Km stone 64-65 at Ch.64.901km.
6. Bihar State Power Transmission Limited. Is here by undertake that 220 KV D/C AMNOUR-DIGHA Transmission line shall be laid across NH-722 between Km. stone 64-65 at Ch. 64.901 .by overhead method without disturbing the upper surface and no traffic movement will affected during laying of 220 KV D/C Amnaur-Digha Transmission line
7. Bihar State Power Transmission Limited. Is hereby undertake that if any claim raised by Concessionaire for laying 220 KV D/C Amnaur-Digha Transmission line across National Highway -722, between Km stone 64-65 at Ch. 64.901 then the same will be paid Bihar State Power Transmission Limited
8. Bihar State Power Transmission Limited. Is hereby undertake that prior approval shall be taken with NHAI before undertaking any work of installation shifting or repairs or any alternation of 220 KV D/C Amnaur-Digha Transmission line /any other utilities located in the NH ROW.
9. Bihar State Power Transmission Limited. is hereby undertake that the expenditure if any, incurred by NHAI for repairing any damage caused to the National Highway by the laying, maintenance or sifting of the 220 KV D/C Amnaur-Digha Transmission line will be borne by the Bihar State Power Transmission Limited

Nihal Kumar
03/02/2020

Bihar State Power Transmission Company Limited

Electrical Executive Engineer
Transmission Division, Saran

NH -722 CROSSING PLAN OF 220 KV D/C AMNOUR -DIGHA TRANSMISSION LINE



Arun Sardar
 Assistant Manager (Survey)
 Associated Power structures
 Private Limited

Uttal Kumar
 03/02/2020
 Assistant Executive Engineer
 Bihar State Power Transmission Co. Ltd.
 Transmission Sub. Division-CHAPRA

APSPVCL LIMITED

BIHAR STATE POWER TRANSMISSION CO. LTD

220 KV D/C AMNAUR-DIGHA TRANSMISSION LINE
CROSS BY NH-722 (CHAPPARA-MUZAFFARPUR)

NH-722

Legend

- Feature 1
- Feature 2



Google Earth

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Image © 2019 Maxar Technologies

Arun Sardar
Arun Sardar
Assistant Manager (Survey)
Associated Power structure
Privet limited

Arjun Kumar
Arjun Kumar
ASSISTANT MANAGER
P S PVT. LIMITED

Adul
Adul
24/01/2020
Assistant Executive Engineer
Bihar State Power Transmission Co. Ltd.
Transmission Sub. Division-CHAPRA

Vijay Kumar
Vijay Kumar
03/02/2020
Electrical Executive Engineer
Transmission Division, Saran

