



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)
(परियोजना कार्यावन्थन ईकाई-रेवारी)
प्लॉट नं. 20, सेक्टर 32,
गुरुगांव - 122003, (हरियाणा)

National Highways Authority of India
(Ministry of Road Transport and Highways, Govt. of India)
(Project Implementation Unit-Rewari)
Plot No. 20, Sector 32, (Institutional Area),
Gurgaon-122003, (Haryana)



ई-मेल / E-mail: piurewari@nhai.org, वेब / web: www.nhai.gov.in, फोन/Ph.: +91 124 3525610

PIU/EU/NH148B/08/10/51/2024-25/2605

27.02.2025

Invitation of Public Comments

Sub: NOC case for Crossing of Transmission Line of 765KV D/C Bikaner III- Neemrana II Transmission lines on NH- 148B ay Ch. 8+541 in Village- Nangal Soda, District- Mahendergarh in the State of Haryana.

Project Head, TATA Projects Limited (Bikaner III- Neemrana II Transmission line) submitted the proposal for Crossing of Transmission Line of 765KV D/C Bikaner III- Neemrana II Transmission lines on NH- 148B ay Ch. 8+541 in Village- Nangal Soda, District- Mahendergarh in the State of Haryana.

2. From the submitted proposal, it is seen that the Crossing of Electric Line, length is proposed for 69 m. 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).

3. 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 30 days from the date of publication beyond which no comments shall be entertained.

The Project Director,
National Highways Authority of India
Project Implementation Unit- Rewari
Plot no. 20, Sector 32, Gurugram
Haryana, 122003

Encl: As above.


(Yogesh Tilak)
Project Director

Copy to:

1. Technical Director, NIC, Transport Bhawan, New Delhi- with request for uploading on the Ministry's website. (Email: mansoor@nic.in).
2. Regional Officer - Delhi, NHAI- for kind information.
3. Project Head, TATA Projects Limited (Bikaner III- Neemrana II Transmission line) - for information.



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
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प्लॉट नं. 20, सेक्टर 32,
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पीआईयू/ईसी/NH148B/08/10/51/2024-25/2605

दिनांक: 24/02/2025

सार्वजनिक टिप्पणियों का आमंत्रण

विषय: एनएच-148बी पर 765 केवी डी/सी बीकानेर III-नीमराना II ट्रांसमिशन लाइनों की ट्रांसमिशन लाइन के ओवरहेड क्रॉसिंग का प्रस्ताव चैनल 8+541 पर (गांव-नांगल सोडा, जिला-महेंद्रगढ़, हरियाणा)।

आवेदक परियोजना प्रमुख, टाटा प्रोजेक्ट्स लिमिटेड (बीकानेर III-नीमराना II ट्रांसमिशन लाइन) ने एनएच-148बी पर (8+541 गांव- नांगल सोडा, जिला-महेंद्रगढ़, हरियाणा) 765 केवी डी/सी बीकानेर III- नीमराना II ट्रांसमिशन लाइनों की ओवरहेड क्रॉसिंग का प्रस्ताव प्रस्तुत किया है।

2. प्रस्तुत प्रस्ताव से, यह देखा गया है कि विद्युत लाइन की क्रॉसिंग, लंबाई 69 मीटर के लिए प्रस्तावित है। मंत्रालय के दिनांक 22.11.2016 के कार्यालय ज्ञापन संख्या आरडब्लू/एनएच-33044/29/2015/एसएंडआर® के अनुसार, राजमार्ग प्रशासक जनहित के आधार पर 30 दिनों के लिए सार्वजनिक टिप्पणियों के लिए उपयोगिता बिछाने की अनुमति मांगने वाला प्रस्ताव उपलब्ध कराएंगे।

3. उपरोक्त के मद्देनजर, उपर्युक्त प्रस्ताव पर जनता की टिप्पणियां आमंत्रित की जाती हैं और ये टिप्पणियां 30 दिनों के भीतर उपर्युक्त पते पर पहुंच जानी चाहिए, इसके बाद किसी भी टिप्पणी पर विचार नहीं किया जाएगा। यह क्षेत्रीय अधिकारी सह राजमार्ग प्रशासक के अनुमोदन से जारी किया जा रहा है।

संलग्न: उपरोक्त अनुसार।

प्रो.सं. 21
(योगेश तिलक)

डीजीएम(टी)/परियोजना निदेशक

प्रतिलिपि ::

1. तकनीकी निदेशक, एनआईसी, परिवहन भवन, नई दिल्ली- मंत्रालय की वेबसाइट पर अपलोड करने के अनुरोध सहित।
2. आरओ (दिल्ली), एनएचएआई-मुख्यालय, द्वारका, नई दिल्ली।
3. परियोजना प्रमुख, टाटा प्रोजेक्ट्स लिमिटेड (बीकानेर III-नीमराना II ट्रांसमिशन लाइन)-सूचना के लिए।

Check List
Annexure - 1

NH148B-KOTPUTLI-BATHINDA National Highway Over Head Crossing by 765 kv D/C Bikaner III- Neemrana II Transmission Line (2nd).

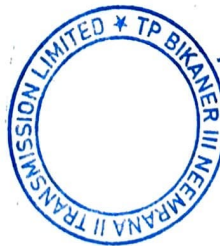
S.No	Description	Details
General Information		
1	National Highway Name & No.	KOTPUTLI-BATHINDA NATIONAL HIGHWAY NO- 148B
2	Crossing Line Name	765 kv D/C Bikaner III- Neemrana II Transmission Line (2nd)
3	System of supply(i.e.Voltage) Frequency, no.of Phases.	765 kv, Double Circuit (Hexa), Six Phase, 1 Nos OPGW, 1 Nos Earthwire.
4	Name of the Applicant/Agency	TP BIKANER-III NEEMRANA-II TRANSMISSION LIMITED.
5	Address of Applicant/Agency	Plot No – 72, Jaipur Road, Opposite – Kotak Mahindra Bank, Dist - Bikaner, State - Rajasthan , PIN- 334001.
6	Telephone No. & Fax	Kunal Sharma 9910447815, kunal.sharma@tatapower.com
7	purpose for Crossing.	Construction of 765 kv D/C Bikaner III- Neemrana II Transmission Line (2nd).
8	Details regarding overhead transmission line.	
(a)	Situation of crossing	Between Proposed structure AP 194/0 and AP 195/0
(b)	Distance of proposed structure from centre of the Road	AP194/0 = 117.80 Mtr. AP195/0 = 120.30 Mtr.
(c)	Span at the crossing	Crossing Span:- 238.00 Mtr.
(d)	Angle of crossing	85°00'00"
(e)	Structure used to cross the existing NH and its deviation Angle	AP194/0 - DD45-3 33°23'19"LT AP195/0 - DD45+0 44°14'53"RT
(f)	Perpendicular distance from center of tower to center of road.	AP194/0 to NH-148B Road Center = 117.80 Mtr. AP195/0 to NH-148B Road Center = 120.30 Mtr.
(g)	Distance from NH boundary from center of Tower.	AP194/0 to NH148B Road Boundary = 85.60 Mtr. AP195/0 to NH148B Road Boundary = 85.10 Mtr.
(h)	Sag of AL59 Conductor size AL 59 Zebra (61 AL.Alloy/3.08 MM) Conductor.	4.81 Mtr.
	Foundation Type	AP 194/0 - Tower of Type(DD45-3), Foundation Type - Sandy. AP 195/0 - Tower of Type (DD45+0),Foundation Type - Sandy.
(j)	Preceding span with loc.	313 Meter - Loc No - 193/1
(k)	Succeeding span with loc.	334 Meter - Loc No - 195/1.
(l)	Protection assembly of Line.	Danger Board, Anticlimbing Device.
(m)	Tower Earthing	One Leg Earthed with Pipe Type Earthing.
(n)	Plain Profile Diagram	Profile Enclosed- Annexure - A
9	Detail Regarding National Highway Road Alignment	
9.1	Name of Road	KOTPUTLI-BATHINDA NATIONAL HIGHWAY NO- 148B
9.2	Category Of Road	National Highway
9.3	Crossing Near Village	Nangal Soda
9.4	Width of the Road	29.50Mtr.
9.5	Black Topped carriage Way width	2 x 14.75 Mtr. = 29.50Mtr.



Siddharth Sharma
Group Head-Sub Station Electrical
TP Bikaner-III Neemrana II Trans. Ltd.

Check List
Annexure - 1

NH148B-KOTPUTLI-BATHINDA National Highway Over Head Crossing by 765 kv D/C Bikaner III- Neemrana II Transmission Line (2nd).		
No	Description	Details
6	Road Boundary	
7	Location of 765 KV D/C line along the or crossing to mentioned .	32.15 Mtr.& 35.20 Mtr. both side from the centre of Road(TRIPLE LANE)
8	Details to be supplied on layout drawing (3 copies)	BETWEEN K.M. STONE NO:- 8 TO 9
9	All these Detail are to be shown on the Drawing	Drawing in 3 copy attached
10	Ground clearance under maximum Sag condition between lowest conductor of Proposed line and existing National Highway.(Clearance over road)	Yes showing in Drawing- Annexure - B
11	Chainage in between at Crossing Point	21.99 Mtr. from Top of Between Surface NH148B
12	Conductor used to cross the National Highway with Complete Technical Details of Conductor	CH - MAHENDERGARH - 54 KM, CH - PANIYALA MORE- 8 KM.
13	Earthwire used to cross the National Highway	Conductor Detail:- (i) Name:- AL59 ZEBRA. (II) Diameter:- 27.72 mm. (iii) Conductor area :- 454 sq mm. (iv) Weight of conductor :- 1.254 kg/m. (v) Modulus of Elasticity :- 5.608440E+05 kg/sq mm. (vi) Ultimate Tensile strength :- 11013 kg (vii) Co-efficient of linear expansion:- 2.300000E-05 / deg c



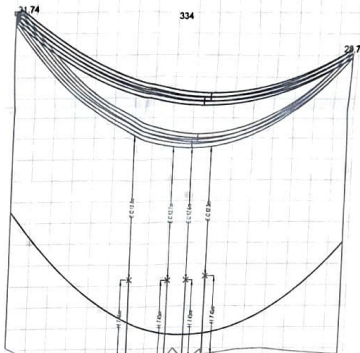
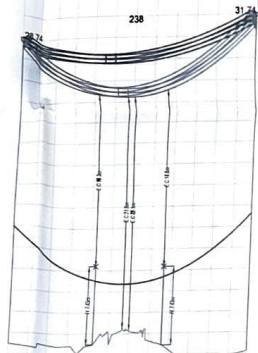
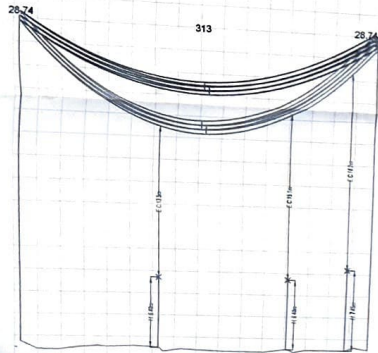
A.K. Pandey - *Siddharth Sharma*
 Siddharth Sharma
 Group Head-Sub Station Electrical
 TP Bikaner-III Neemrana II Trans. Ltd.

Tower No. 193/1
Tower Type DA-3
Wind Span 319
WL Span (Cold) 119(L)+160(R)=279(T)
WL Span (Hot) 137(L)+159(R)=296(T)
X=614115.50
Y=3678458.42
HL=26.74ELE=336.50

Tower No. AP194
Tower Type DD45-3 (30°-45°)
Wind Span 278
WL Span (Cold) 153(L)+85(R)=238(T)
WL Span (Hot) 155(L)+108(R)=263(T)
X=614426.84
Y=3678530.77
HL=26.74ELE=336.02

Tower No. AP195
Tower Type DD45-3 (30°-45°)
Wind Span 284
WL Span (Cold) 143(L)+193(R)=336(T)
WL Span (Hot) 150(L)+163(R)=313(T)
X=614811.74
Y=3678552.91
HL=31.74ELE=335.22

Tower No. 195/1
Tower Type DA-3
Wind Span 320
WL Span (Cold) 141(L)+162(R)=303(T)
WL Span (Hot) 152(L)+159(R)=311(T)
X=614844.10
Y=3678552.91
HL=26.74ELE=334.46



- NOTE:**
- ALL DIMENSIONS ARE IN M.
 - ELECTRICAL CLEARANCE FOR RAILWAY CROSSING DETAILS:
 - PRIOR APPROVAL OF RAILWAY AUTHORITY IS TO BE OBTAINED.
 - MINIMUM CLEARANCE BETWEEN LOWEST POINT OF 765 KV LINE CONDUCTOR AND RAIL LEVEL SHALL BE 25M. HOWEVER APPROVAL OF RAILWAY CROSSING FROM RAILWAY AUTHORITY HAS TO BE OBTAINED IN EACH CASE.
 - IF RAILWAY CROSSING IS PROPOSED TO BE ELECTRICIFIED, THE CLEARANCE BETWEEN 765 KV CONDUCTOR & THE CROSSING SHALL NOT BE LESS THAN 18M UNDER MAXIMUM SAG CONDITION.
 - IF THE CROSSING SPAN SHALL BE LIMITED TO 30M.
 - THE CROSSING SHALL NORMALLY BE AT RIGHT ANGLE TO THE RAILWAY TRACK.
 - CROSSING SHOULD BE DONE WITH DD TYPE TOWER.
 - POWER LINE CROSSING:
 - MINIMUM CLEARANCE BETWEEN 765 KV CONDUCTORS OTHER POWER LINES SHALL NOT BE LESS THAN 3M AS PER TECHNICAL SPECIFICATION.
 - TELECOMMUNICATION LINE CROSSING:
 - 7.8M CLEARANCE TO BE MAINTAINED FROM 765KV OHL FROM MAXIMUM CONDUCTOR SAG.
 - THE ANGLE OF CROSSING SHALL BE AS NEAR TO 90° AS POSSIBLE. HOWEVER DEVIATION TO THE TEND 30° MAY BE PERMITTED UNDER EXCEPTIONALLY DIFFICULT SITUATION.
 - SECTION TOWER:
 - THE NUMBER OF CONSECUTIVE S. BETWEEN THE SECTION POINT SHALL NOT BE EXCEED 15 SPANS OR 30M IN HILLY TERRAIN AND 10 SPANS OR 30M IN HILLY TERRAIN. A SECTION POINT SHALL COMPOSE OF SECTION POINT WITH TOWER TYPE "B" OR "C" AS APPLICABLE.
 - FOR ALL NATIONAL HIGHWAY CROSSING, ANGLE TOWER TO BE USED AND THE CROSSING SPAN IS NOT TO EXCEED 25METERS. THE MINIMUM CLEARANCE BETWEEN CONDUCTOR AND ROAD SURFACE SHALL BE 18.8M WITH MAXIMUM CONDUCTOR SAG.
 - RIGHT OF WAY LEAVE CLEARANCE: 25M EITHER SIDE FROM THE C.L. OF THE TOWER.
 - MAXIMUM DEVIATION OF LINE FOR 3RD END TOWER SHALL BE 1° BOTH SIDE (i.e. LINE SIDE AND SUBSTATION SIDE (BLACK SPAN SIDE)).
 - SUSPENSION TOWER SHALL BE SPOTTED SUCH THAT VERTICAL LOAD OF INDIVIDUAL SPAN SHALL BE ACTING DOWNWARDS ONLY. NO UPLIFT IS PERMITTED ON SUSPENSION TOWER.
 - TOWER TYPE "DC" SHALL BE USED FOR TRANSDUCTION WITH 8 DEG. DEVIATION WITH MODIFICATION OF TOWER.

PLS-CADD Profile Drawing of 765KV D/C TL (Wind Zone-4, 47m/s)

Tower Spacing Data for 765KV D/C TL (Wind Zone-4, 47m/s)

1) Conductor	ALH 2B8BA
2) Cable Diameter	27.2 mm
3) Area of Conductor	464 mm ²
4) Unit Weight of Conductor	1.24 Kg/L
5) Normal Span (Shall Span)	485 mtr
6) Maximum Sag @ 33° Temperature, No Wind	13.5M mtr
7) Ground Clearance (Including Sag error of 0.15m)	18.10 mtr
8) Sag Tension For Hot Curve (33° Temp, No Wind)	164.91 Kp
9) Sag Tension For Cold Curve (0° Temp, No Wind)	204.40 Kp

Legends

Sr.No.	Description	Symbol
1)	Alignment	---
2)	Power Line Corridor	---
3)	Hot Curve / Cold Curve	---
4)	Ground Clearance / Ground Profile	---
5)	House / Ground Profile Side Hill	---
6)	Railway Track	---
7)	National Highway / State Highway	---
8)	Road / Cart Track	---
9)	Existing 110KV / 132KV / 220KV / 400KV & above TL	---
10)	66KV / 33KV Line	---
11)	110V Line / LT Line	---
12)	Telephone Line / Fence	---
13)	Pond / Canal / Nala / River	---
14)	Band / Well / Tube Well / Tree	---

Notes:-

- All Dimensions are in Metre Otherwise Stated
- Kindly refer tower schedule for further details about wind and weight span

Revision	Description	Date	Drawn
01	Accepted for Approval	05 SEPT, 2024	BDH/BJT
02			
03			

DRG NO. TP/PLC/AP/194-AP/195/196/197
 Sheet Name: AP194-AP195 Section Length: 238 Kms. Paper Size: 24" x 36" Date: 05 SEPT, 2024

Scale: Horizontal Scale 1:2000 (1 cm = 20m)
 Vertical Scale 1:200 (1 cm = 2m)

CLIENT: TP BIKNER-III NEEMRANA-II TRANSMISSION LIMITED

EPC CONTRACTOR: TATA PROJECTS LIMITED
101 FLOOR TOWER 1 (GATEWAY) THE PLOT NO. 101 SECTOR 42 NOIDA-201301 UP

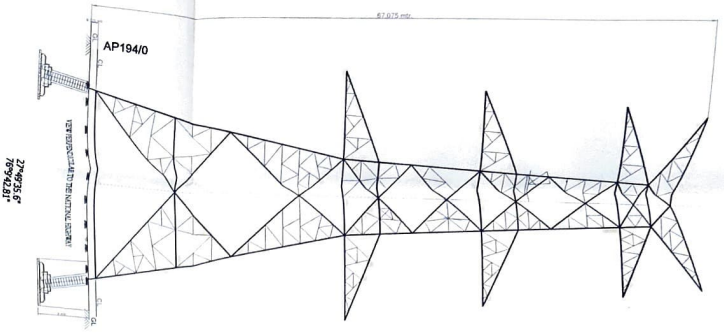
PROJECT: ESTABLISH INTER STATE TRANSMISSION SYSTEM FOR TRANSMISSION SYSTEM FOR EVACUATION OF POWER FROM RAJASTHAN REZ PH-IV (PART-I) (BIKNER COMPLEX) PART-C

DRAWING DESCRIPTION: EXISTING NH148B (KOTPUTLI-BATHINDA) - OVERHEAD CROSSING

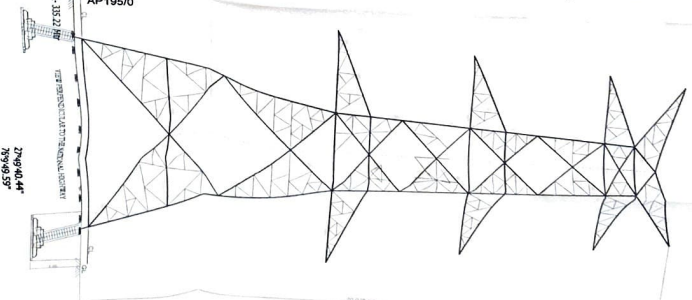
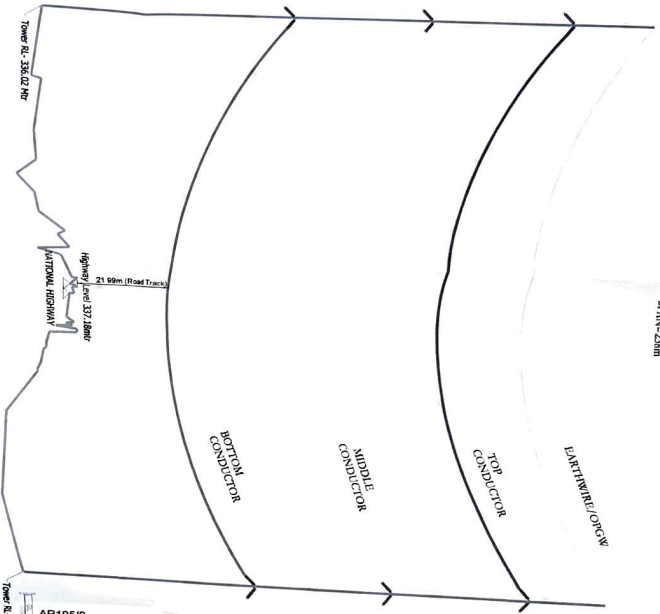
APPROVED BY	CHECKED BY	SUBMITTED BY
RECOMMENDED BY	APPROVED BY	
RECOMMENDED BY	APPROVED BY	

1034*594mm

Tower No. AP184
 Tower Type DD45-3
 33°23'19"LT
 76°42'28"E
 H=37.45m
 W=18.00m
 Wb=18.00m
 Wc=18.00m
 Wd=18.00m
 We=18.00m
 Wf=18.00m
 Wg=18.00m
 Wh=18.00m
 Wi=18.00m
 Wj=18.00m
 Wk=18.00m
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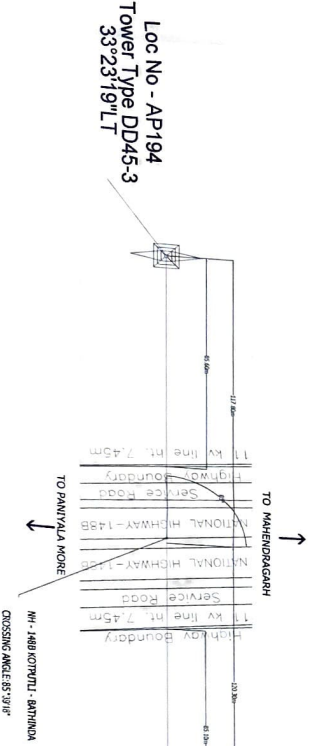


SPAN=23km



Tower No. AP195
 Tower Type DD45-3
 44°14'53"RT
 76°42'28"E
 H=37.45m
 W=18.00m
 Wb=18.00m
 Wc=18.00m
 Wd=18.00m
 We=18.00m
 Wf=18.00m
 Wg=18.00m
 Wh=18.00m
 Wi=18.00m
 Wj=18.00m
 Wk=18.00m
 Wl=18.00m
 Wm=18.00m
 Wn=18.00m
 Wo=18.00m
 Wp=18.00m
 Wq=18.00m
 Wr=18.00m
 Ws=18.00m
 Wt=18.00m
 Wu=18.00m
 Wv=18.00m
 Ww=18.00m
 Wx=18.00m
 Wy=18.00m
 Wz=18.00m

CHAINAGE (m)	GROUND LEVEL (m)
0.00	336.02
20.00	335.74
40.00	335.88
60.00	335.81
80.00	335.86
100.00	336.71
120.00	337.18
140.00	336.28
160.00	335.42
180.00	334.59
200.00	334.48
220.00	334.79
238.00	335.22



Loc No - AP194
 Tower Type DD45-3
 33°23'19"LT

Loc No - AP195
 Tower Type DD45-3
 44°14'53"RT



Sudhanshu Kumar
 Project Engineer
 TATA PROJECTS LIMITED