

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण ( सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार ) National Highways Authority of India



(Ministry of Road Transport & Highways, Govt. of India) क्षेत्रीय कार्यालय : एफ-120, जनपथ, झ्याम नगर, जयपुर-302019 Regional Office : F-120, Janpath, Shyam Nagar, Jaipur-302019 Tel. (O) / फोन : (ऑ.) 0141-2292056, 2292049 E-mail / ई-मेल : rojaipur@nhai.org Web. / वेब : www.nhai.gov.in

क्रमांक: NHAI/18013/1/2021-ROJ/Permission-OH Crossing 132 KV/RVPNL/297/NH-148D, km 116-117 /2300 दिनांक: 09.11.2023

## **INVITATION OF PUBLIC COMMENTS**

- Proposal for grant of permission for overhead crossing of 132 KV S/C Shahpura-Jahajpur विषय: Transmission line between Km. 116+00 to 117+00 on Gulabpura-Uniayara section of NH-148D at Shahpura City, Distt-Bhilwara in the state of Rajasthan by RVPNL - reg.
- (i) SE (T&C), RVPNL, Bhilwara letter no. RVPN/SE/T&C/BHL/2023-24/F. Tech/D.537 सन्दर्भः dated 14.08.2023.
  - (ii) PD, PIU-Sawaimadhopur letter no. NHAI/PIU-SWM/NH-148D/13016/2/2023/ RVPNL/7081 dated 30.10.2023 (receive in this office on 07.11.2023).

Sir,

It is to inform all concern that SE (T&C), RVPNL, Bhilwara vide letter cited under ref. (i) above has submitted a proposal for the subjected work and PD, NHAI, PIU, Sawaimadhopur has submitted the above proposal vide letter under reference (ii) for approval of the Competent Authority, Highway Administration.

2. The proposal is for grant of permission for overhead crossing of 132 KV S/C Shahpura-Jahajpur Transmission line between Km. 116+00 to 117+00 on Gulabpura-Uniayara section of NH-148D at Shahpura City, Distt-Bhilwara in the state of Rajasthan by RVPNL.

As per Para-4 of Ministry's Circular No. RW/NH-33044/29/2015S&R(R) dated 22.11.2016, the Highway Administration 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, before approval of the competent authority, the comments/objections of affected public is hereby invited with reference to the Ministry's circular dated 22.11.2016 due to overhead crossing of 132 KV transmission line across the subjected project stretch. The objections/comments may be addressed to the below mentioned address upto 08.12.2023, beyond due date, no comments/objections will be accepted.

> The Regional Officer, Regional Office - Jaipur National Highways Authority of India, F-120, Janpath, Shyam Nagar, Jaipur (Raj.)-302019, Tel: 0141-2292049, 2292054 Email: rojaipur@nhai.org

This issues with the approval of Highway Administration-cum Regional Officer, NHAI, Jaipur

खांडा)

प्रबन्धक (तकनीकी)

- Copy to: (i) Web Admn., NHAI, HQ, New Delhi for uploading in NHAI's website [webadmin@nhai.org]
  - (ii) Director, NIC, New Delhi for uploading in Ministry's website. [mansoor@nic.in]
  - (iii) PD, PIU-Sawaimadhopur: for information.
  - (iv) SE (T&C), RVPNL, Bhilwara: for information.



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार) National Highways Authority of India

(Ministry of Road Transport & Highways, Government of India) परियोजना कार्यान्वयन इकाई-सवाई माधोपुर मकान नं० 12, श्याम सरोवर, पटेल नगर, आलनपुर, सवाई माधोपुर – 322021 (राज.) Project Implementation Unit - Sawai Madhopur House No. 12, Shyam Sarover, Patel Nagar, Alanpur, Sawai Madhopur - 322021 (Raj.)

Ph. No. : 07462-294310, E-mail / ई-मेल : piusawaimadhopur@nhai.org Web. / वेब : www.nhai.gov.in

NHAI/PIU-SWM/NH-148D/13016/2/2023/RVPNL/7081

श्रीमान् क्षेत्रीय अधिकारी, महोदय क्षेत्रीय कार्यालय, राजस्थान, भारतीय राष्ट्रीय राजमार्ग प्राधिकरण एफ–120, जनपथ, श्याम नगर, जयपुर – 302019

M(T)-MK



Conto -2

- विषय: राष्ट्रीय राजमार्ग संख्या-148 डी गुलाबपुरा उनियारा पथांश के दो लेन मय पेव्ड शोल्डर के निर्माण कार्य हेतु – Permission for overhead crossing of 132 KV S/C Shahpura-Jahajpur Transmission Line between Km 116+000 to 117+000 on NH-148D at Shahpura City, Shahpura, Bhilwara in the state of Rajasthan reg
- للانات 1. SE (T&C) RVPNL, Bhilwara letter no RVPN/SE/T&C/BHL/2023-24/F. TECH/D. 537 dated 14.08.2023 (Received in this office on 16.08.2023)
  - 2. This office letter no NHAI/PIU-SWM/NH -148D/13016 /5/2021/AP/6892 dated 22.08.2023
  - 3. Authority Engineer letter no LNM / PIU/SWM/NH 27/09/2023 24/803 dated 11.09.2023 (Received in this office 21.09.2023)
  - 4. Govt. of Rajasthan Circular no प0 / 1 (4) राज -6 / 2001 / पार्ट / 02 दिनांक 25.04. 2016
  - 5 RVPNL Circular no F&R no. 1277 dated 08.05.2019
- Sir,

A proposal for grant permission for overhead crossing of 132 KV S/C Shahpura-Jahajpur Transmission Line between Km 116+000 to 117+000 on NH-148D at Shahpura City, Shahpura, Bhilwara in the state of Rajasthan vide Superintending Engineer (T&C) RVPNL, Bhilwara letter under reference (1).

2] The proposal was forwarded to Authority Engineer of the project vide letter dated 22.08.2023 (**ref-(2)**) for site verification & examination as per Ministry's guidelines issued vide letter no. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016.

3] After due verification & site inspection, Authority Engineer of the project vide its letter dated 11.09.2023, which was received in this office on dated 21.09.2023 (ref-(3)) has submitted their comments and recommended the proposal for approval.

4] The permission for overhead crossing may be considered as per the details given in checklist and as per site conditions & comments as below-

प्रधान कार्यालय : जी–5 एवं 6, सेक्टर–10, द्वारका, नई दिल्ली–110075, दूरभाष : 011-25074100, 25074200 वेब : www.nhai.gov.in Corporate Office : G-5 & 6, Sector-10, Dwarka, New Delhi - 110075, Tele.: 011-25074100, 25074200 Web.: www.nhai.gov.in

- a. The crossing of new 132 KV transmission line is proposed to be located from km. 116-555 to 116.580, Transmission line from our project highway road is crossing toward from Left hand side to Right hand side.
- b. The location where crossing of new 132 KV Transmission line is to be laying comes in the **2-lane** section and at this location the road construction work has been done in foundation width of **12.00 Meter** and ROW available at this location is **45.00 M**.
- c. The vertical clearance of the proposed 132 KV line is 16 meters over the FRL of the project highway 148D which complies minimum clearance of IRC32 and RVPN Circular F&R No 1277 dated 08.05.2019 i.e. 6m & 11.60m, Respectively.
- d. The tower pole of the transmission line is being erected at a Horizontal distance of 65 meters from the center line of the left side and 83 meters from the center line of the Right-hand side.

5] The checklist, undertaking as per MORTH Guideline dated 22.11.2016 is appended with the proposal.

In view of the above, the proposal for grant permission for overhead crossing of 132 KV S/C Shahpura-Jahajpur Transmission Line between Km 116+000 to 117+000 on NH-148D at Shahpura City, Shahpura, Bhilwara is herewith recommended for approval of Competent Authority.

Thanking you,

भवदीय

(मनोज कुमार शर्मा) 30/10/23 परियोजना निदेशक

Encl: As above.

april.

Copy to- Superintending Engineer (T&C) RVPNL Bhilwara- for your kind information please

-2/2-

## CHECK -LIST

Guidelines for processing the proposal for lying of utility line in the land along National Highways vested with NrIAI/PWD/BRO.

## General Information

1.	Name and address of the Applicant/Agency	:- Rajasthan Rajya Vidyut Prasaran Nigam Ltd. Jaipur
2.	National Highways No.	:- NH-148 D
3.	Stato	:- Rajasthan

4. Location

5. Chainage in KM

6. Length in M

7. Width of available ROW in both side

- :- Near Shahpura City.
- Uniyara-Gulabpura Highway, Distt.-Shahpura
  - :- Between 116.555-116.580
  - :- Overhead crossing
  - :- 45 Mtrs (22.5 Mtr either
    - side from centre of line)
- 8. Side of NH(Left or right side of NH towards Increasing change/KM direction)
- :- Overhead crossing

9. Name of Highways Authority of NHA1/PWD/BRO :- NHAI

10. Highway Administration address

:- Highway administration Cum Regional Officer MORTH, DCM, Ajmer Road, Jaipur Project Implementation Unit, PD (SWM), H. No. 12, Shyam Sarovar, Patel Nagar, Alanpur, Sawai Madhopur - 322021

Executive Engineer (T&C) RRVPNL.BHILWARA

SUPERINTENDING ENGINEER (T&C) RRVPNL, OHILWARA

Junior Er

Assistant Edemeer - J (T&C) **RRVPNL**, Bhilwara

RRVFNL, Bhilwara Engineer

उप प्रबंधक (तक) L.N. Malviya Infra Projects Pvt. Ltd.

Name of the Transmission Line: 132 KV S/C Shahpura-Jahazpur Interconnection Overhead High Tension Transmission Line

Crossing Tower Loc. No. 17 - 132KV S/C TTDD+6 & Loc. No. 18 - 132KV S/C TTD+6 on NH-148D

ANNX- A

CRO	SSING DETAILS:		
1	Name and Details of the NH Crossing		132 KV S/C Shahpura- Jahazpur Interconnection Overnead High Tension Transmission Line for crossing on National highway -148 D.
2	Height of crossing Towers	, .	Loc. No. 17 132KV S/C TTD+6 = 20.43 Mtr Loc. No. 18 132KV S/C TTD+6 = 20.43 Mtr
3	Situation of the crossing	•	Near Shahpura City, Gulabpura Highway, Dist Shal.pura
4	Span at crossing	:	150 Mtr.
5	Angle of Crossing	:	90°
6	Structure used to cross the existing power line and its deviation of angle		ΝΛ
7	Conductor used to cross the power line and its detail		ACSN Panther Coductor
8	Right Of Way For Line	2	27 mlr.
9	Minimum Sag at C° , No wind		
10	Maximum Sag at 85° , No wind	-	
11	Clearence Under Maximum sag condition between lowest conductor of the proposed line and NH-148D	ž	16.40mtr

CROSSING DETAILS:

JEn (780) Shilwarg Junior Engineer - I (T&C) **RRVPNL**, Bhilwara

Assistant Engineer - I (T&C) **RRVPNL**, Bhilwara Executive Engineer (T&C) RRVPNL, BHILWARA

Resident Engineer L.N. Malviya Infra Projects Pvt. Ltd. SUPERINTENDING ENGINEER (T&C) RRVPNL., BHILWARA

PROJECT DIRECTOR

उप प्रबंधक (तक) भा.रा.रा.प्रा.. पकाई-सवाई माघोपुर NHAI, PIU Sawai Madhopur

# Name of the Transmission Line:-132 KV S/C Shahpura- Jahazpur Interconnection Overhead High Tension Transmission Line

# Minimum and Maximum SAG calculation

ANN-D

Crossing Tower Loc. No. 17 132KV S/C TTD+6 & Loc. No. 18 132KV S/C TTD+6 on NH-148D

	SAG FORMULA=	$WL^2$	n nag fails Tagailte
	ond i onnoun-	81	
Where:	W = Unit Weight of L = Span length in t	Conductor in Kg/mtr	
	T = Tension of cond and 85° C temp.		
Minimum "Sag"	(0°C No wind)		
Where :	W = 0.974Kg/mtr		
	L = 150.00 m		2 - E
	T = 2650 Kg		
			21915
Sag	= <u>0,974x150X150</u> 8x2650		21200
	= 1.034 Mtr		
Maximum "Sag"	(35°C No wind)		
Where :	W = 0.974 Kg/mt	l,	
	L = 150.00  m		
	T = 1450  Kg		
Sag	$= 0.974 \times 150 \times 150$	)	21915
	8x1450		11600
	= 1.889 Mur		

JEn (12C)

Junier Enginser-I (T&C) RRVFNL, Bhilwara

Resident Engineer L.N. Malviya Infra Projects Pvt. Ltd. Assistant togineer -I (T&C) RRVPNL, Bhilwara

Executive Engineer (T&C) RRVPNL, BHILWARA

SUPERINTENDING ENGINEER (T&C) RRVPNL., BHILWARA

भा.रा.रा.प्रा. पकाई-सवाई माधोपुर

#### CHECK-LIST

No.	ltem	Measurment Observations as per site conditions.	Morth Norms	
1	Details of aiready laid utility service, many	NIL	Enclosed	
2	Whether up gradation of the strench in near future is proposed or not	NO		
	(a) if yes, provision of utility adversely affect the plan of up graduion	NA	Not affect plan of up-gradation	
	Laying of the utility service along the National Highways.			
	Location of proposed utility service along the strench	NA	Utility Duct/beyond the toe line of the embankment and drains, and close to the extreme edge of the ROW	
	Depth of top of utility service from ground level	NA	0.6 meter	
	Mechanism for crossing water channel	NA	Through utility duct (if provision exists) or beneath the bed of water channel	
341	Whether ROW is restricted in this strench?	NA		
	If yes, whwther provision of land acquisition is required to lay utility	NA		
1	(a) if yes, whelther undertailing for land acquisition along with relevent L.A. details has been inmished	NA	5	
3.4.2 s	Width of concrete duct, if utility service are proposed to be taid in concrete ducts	ΝA	Not less than one lane	
44	laying of utility service across the NH	NA (Overhead Electrical Power Line crossing)		
	Whether Existing drainage structures s allowed to carry the utility lines.		Not to be allowed	
4.2 P	Proposed crossing of utility service	Overhead Electrical Power Line crossing	Perpendicular to NPH .	
	ype of casing pipe/conduit carrying he utility line	NO	Steel,cast iron,or reinforced cement concrete and have adequate strength	
	Whether ends of the casing/conduit lipe are scaled from the outside	NA	Sealed	
4	ength of casing/conduit pipe rossing NH		Extend from drain to drain in cuts and to to toe of slope in the fills	

SUPERINTENDING ENGINEER ( RRVPNL., OHILWARA

Executive Engineer (T&C) RRVENL, BILLWARA

Resident Engineer L.N. Malviya Infra Projects Pvt. Ltd.

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4.6	Depth of top of the casing/conduit pipe	NA	At least 1.2 m below the top of subgrade
4.7	Crossing method in case of CC Pavement	NA	Only boring method (HDD)
4.8	Horizontal and vertical clearances in case utilities are allowed overhead	EHV line structure i.e towers are 65 Mirs from road center (LHS) & 83 Mirs from road center (RHS)	In accordance with IRC codes.
5	Document/Drawing enclosed with the proposal	NA (Overhead Electrical Power Line crossing)	
5.1	Cross-section showing the size of trench for open trenching nuethod	NA	enclosed, if applicable
	(a) Trench width	NO	more than 30cm and less than 60cm wider than the outer diameter of the utility pipe
	(b) Filling of trench	NO	as per Ministry guidelines vide letter No. RW/NH-34044/29/2015/S&R® dated 22.11.2016
	©Location of trench	NA	extreme edge of the ROW
5.2	Cross section showing the size of pit and location of conduit for HDD method	NA	enclosed, if applicable
5.3	Strip plan/Route plan showing utility line, chainage, width of ROW, distance of proposed utility from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Enclosed	Enclosed
J.4	Plan and profile drawing of strench showing cross section of road at 20m distance along with ROW and proposed utility	Enclosed	Fnclosed
6	Methodology for laying of utility line	NA (Overhead Electrical Power Line crossing)	Enclosed
7	Draft license agreement is as per Ministery guidelines vide letter no. RW/N-34044/29/2015/S&R* dated 22.11.2016 and signed by two witness		Enclosed
1	License fees in favour of Morth RPAO Jaipur		As per Ministry vide circiular No. RE/NH-34044/29/2015/(S&R) dated 22.11.2016
1	Whether Bank Guarantee has been obtained		As per Ministry vide circiular No. RE/NH-34044/29/2015/(S&R) dated 22.11.2016
	(a) If yes, whether confirmation of BG has been obtained as per MORTH/NHAI guidelines	Enclosed	

SUPERINTENDING ENGINEER (T&C) RRVPNL., BHILWARA Ex

Executive Engineer (T&C) RRVPNL, BHILWARA

Junior Engineer -I (T&C) RRVPNL, Ehijwara Resident Engineer, पुकाई-सवाई माघोपुर L.N. Malviya Infra Projects Pvt. Ltd.

RRVPNL,,Bhilwara

10.1	Undertaking for not to dinage other existing utility, if camaged than to pay the losses to either to MORTH/NHAI or to the concered agency	Friclosed	Enclosed	
10.2	Undertaking for renewal of Bank Guarantees and when asked by NHAI/MORTH	Enclosed	Enclosed	
10.3	Undertaking for containing all standard condition of MORTH/NHAI guidelines.	Enclosed	Enclosed	
10.4	Undertaking for shifting of utility as and when asked by MORTH/HAT within a month at their own cost.	Enclosed	Enclosed	
10.5	Undertaking for identifity against ail damages and claims	Enclosed	Enclosed	
10.6	Undertaking for management of traffic movement during laying of utility line without hampering the traffic.	Unclosed	Enclosed	
10.7	Undertaking that if any claim is raised by the concessionaire/contractor them the same has to be paid by the applicant	Enclosed	Enclosed	
10.8	Undertaking that the applicant has obtained various safety clearences from the representative authorities such as directorate or electricity, Chief controller of explosive safety organization, oil industry safety Directorate, State/Central Pollution control Board and any other statutory clerances applicable, before applying to Highway administration.	Friclosed	Enclosed	

The Right of the Way (KOVV) of the National Highway available at the proposed location from the center line of divided carriageway is (.....) (from center of ROW to edge of ROW towards proposed utility)

The above particulars along with the erawings and documents have been verified and certified as correct as per prevailing site conditions.

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Name Designation & Signature of the autocrized representative of applicant

SUPERINTENDING ENGINEER (T&C)

Name Designation concerned field authority

Assistant Engineer -1 (T&C) RRVPNL, Bhilware

Junior Engineer -I (T&C) RRVPNL., BHILWARA Executive Engineer (T&C) **RRVPNL**, Bhilwara RRVPNL, BHILWARA

Resident Engineer L.N. Malviya Infra Projects Pvt. Ltd.

PROJECT DIRECTOR NHAI, PIU Sawai Madhopur

#### CERTIFICATE

- Undersigned has examined the proposal of the applicant for Stringing of ACSR Panther Conductor for Construction of 132 KV S/C Shahpura- Jahazpur Interconnection Overhead High Tension Transmission Line by Rajasthan Rajya Vidyut Prasaran Nigam Ltd. Jalpur (Raj.) for crossing on National highway -148 D between chainage no. 116.555 to 116.580 (Near Shanpura City) at Shahpura, Distt-Shahpura in the state Rajasthan and confirm that the all standard conditions issued vide Ministry Circular No. RW/NH-33044/29/2015/S&R® dated 22.11.2016 has been followed.
- 2. It is certified that any other of utility line would be extremely difficult and unreasonable costly and installation of utility line within ROW will not adversely affect the design, stability & traffic safety of the highway nor the likely future improvement such as widening of the carriage ray, easing of curve etc.
- 3. I will ensure supervision of the work of lying of utility and ensure that the defects in road portion after lying of utility are corrected.
- 4. I will notify/rerfait the BG for claims for damages done/disruption in working, if any.
- 5. I will ensure that proposed permission in entered the register of records.
- 6. The record of previous approval, if any has been considered and copy of same enclosed with the proposal.

Name Designation & Signature of Concerned field authority of NHAI/PWD/BRO Assistant Enderer -I (T&C) Executive Engineer (T&C) **RRVPNL**, Bhilwara RRVPNL,BHILWARA REVENL BERVERA SUPERINTENDING ENGINEER (T&C) RRVPNL., BHILWARA **Resident Engineer** उप प्रबंधक (तक) L.N. Malviya Infra Projects Pvt. Ltd. भा.रा.रा.प्रा., पकाई-सवाई माधोएर

# RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED



[Corporate Identity Number (CIN):U40109RJ2000SGC016485] Regd. Office: Vidyut Bhawan, Jyoti Nagar, Jaipur-302005 O/O THE SUPERITERDING ENGINEER (T&C) RVPNL BHILWARA <u>E-mail: sc.tnc.bhilwara@rvpn.co.in</u>

# Undertaking

It is to undertake that the work execution of 132 KV S/C Shahpura-Jahazpur Interconnection Overhead High Tension Transmission Line by Rajasthan Rajya Vidyut Prasaran Nigam Ltd. Jaipur (Raj.) for crossing on National Highway -148 (D) Uniyara- Gulabpura NH between chainage KM 116.555 to 116.580 near Shahpura Distr. Shahpura in the state Rajasthan is being to be carried out as per enclosed profile and drawing. Following circular/standards with the terms and condition specified by the NHAI are being strictly followed by the RVPNL for execution of this work.

1. We undertake, not to damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency.

2. MORT&H circular no. NHII/P/20/77 dated 08.04.1982/RW/NH-33044/29/2015/S&R( R ) dated 22.11.2016 circular for accommodation of underground electric power lines on National highway land.

3. IRC32-1969-Standard for vertical and horizontal clearance of underground electric power and telecommunication lines as related to roads.

4. IS 5613(part3/sec2):1989-is code of ErIV lines for road crossings.

5. For conforming standard condition of ministry circulars and NHAI guidelines will be followed. 6. We undertake shifting of EHV line as and when required by NHAI at our own cost.

7 We undertake shifting of EHV line due to six laning /widening of NH.

8 We undertake for indemnity against all damages and claims.

9 We undertake for traific movement during crossing of EHV line to be managed by applicant. 10 We undertake that any claim is raised by the confessional then the same will be paid by the applicant.

11 We undertake that prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs or alterations to the EHV line/any other utility located in the National Highway Right of Way.

Assistant Engineer - I (T&C) tive E ngineer (T&C) RRVPNL, Bhilwara **RRVPNL**. Bhilwara SUPERINTENDING ENGINEER (T&C) RRVPNL., BHILWARA **Resident Engineer** L.N. Malviya Infra Projects Pvt, Ltd. भा.स.स.मा. पकाई- सवाई मायोगर