



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, श्याम 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/132KV/RVPNL/268/NH-754K, km 119-120/1591 दिनांक: 04.09.2023

INVITATION OF PUBLIC COMMENTS

विषय: Proposal for grant of permission for overhead crossing of 132 KV S/C Jeewana-Khokha line crossing between Ch. 119-120 in Village-Sangana, Distt-Jalore of Amritsar-Jamnagar expressway Pkg-AJ/ DRGB-5 of NH-754K by M/s. RRVPNL - reg.

सन्दर्भ: 1.EE (T&C) RRVPNL Sirohi letter no. 272 dated 09.02.2022 and AE (T&C) RRVPNL Jalore letter no. 138 dated 03.08.2022.
2.PD, PIU-Jodhpur letter no. 35015/2023/DRGB-5/NH-Crossing/2063 dated 21.08.2023 (received on 24.08.2023).

Sir,

It is to inform all concern that EE (T&C), RRVPNL, Sirohi vide letter cited under ref. (1) above has submitted a proposal for the subjected work and PD, NHAI, PIU, Jodhpur has submitted the above proposal vide letter under reference (2) for approval of the Competent Authority, Highway Administration.

2. The proposal is for grant of permission for overhead crossing of 132 KV S/C Jeewana-Khokha line crossing between Ch. 119-120 in Village-Sangana, Distt-Jalore of Amritsar-Jamnagar expressway Pkg-AJ/ DRGB-5 of NH-754K by M/s. RRVPNL.

3. 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).

4. 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 laying Overhead crossing of 132 KV S/C Line on the subjected stretch. The objections/comments may be addressed to the below mentioned address upto 03.10.2023, 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 is issued with the approval of the Regional Officer, NHAI, RO, Jaipur (Rajasthan).

भवदीय,

(मनोज खोड़ा)
प्रबन्धक (तकनीकी)

- Copy to: (i) Web Admn., NHAI, HQ, New Delhi - for uploading in NHAI's website [web-admin@nhai.org]
(ii) Director, NIC, New Delhi - for uploading in Ministry's website. [mansoor@nic.in]
(iii) PD, PIU-Jodhpur: for information.
(iv) EE (T&C), RRVPNL, Sirohi: for information.



सत्यमेव जयते

भारतीय राष्ट्रीय राजमार्गप्राधिकरण (सड़क परिवहन एवं राजमार्गमंत्रालय, भारत सरकार) National Highways Authority of India

(Ministry of Road Transport & Highways, Government of India)
परियोजनाकार्यान्वयनइकाई, जोधपुर- 188, उम्मादहैरिटेज, रातानाड़ा,
जोधपुर- 342011 (राजस्थान)

Project Implementation Unit- Jodhpur - 188, Umaid Heritage, Ratanada
Jodhpur - 342011 (Rajasthan), फोन / Tel. : 0291-2510065, 2511165
ई-मेल: jodhpur@nhai.org, jodhpurpiu3@gmail.com



No.: 35015/2023/DRGB-5/NH-Crossing/2063

To,

The Chief General Manager (Tech.)
National Highway Authority of India,
Regional Office, F-120, Janpath,
Shyam Nagar, Jaipur (Raj) 302019

MCD MK
24/8



3

Date: 21-08-2023

Steno (MKS)
20/8

Sub: Construction of 6-lane access controlled Greenfield Highway from 97+000 to km 125+000 of Deogarh (near Dhandhaniya) - Rajasthan /Gujarat Boarder Section of NH-754K as a part of Amritsar - Jamnagar Economic Corridor in the State of Rajasthan on EPC mode under BharatmalaPariyojana (Phase-I)(AJ/DRGB-Package -5) **Proposal for 132 KV S/C Jeewana-Khokha line is crossing NHAI (BharatmalaPariyojana) between Ch. 119+120 in Village Sangana District Jalore.**

- Ref:** 1. Assistant Engineer (T&C) RRVPNL, Jalore office letter no. 138 dated 03.08.2022
2. This office letter no. 35015/2022/DRGB-5/NH-Crossing/1176 dated 10.05.2022
3. AE- letter no. CPC/AJ-7-5/NH-754K/1/21-22/514 dated 28.04.2022
4. This office Letter no. 35015/2022/DRGB-5/NH-Crossing/581 dated 03.03.2022
5. Executive Engineer (T&C) RRVPNL, Sirohi office letter no. 272 dated 09.02.2022

Sir,

Executive Engineer (T&C) RRVPNL, Sirohi vide letter under ref.(5) has submitted proposal for 132 KV S/C Jeewana-Khokha line is crossing NHAI (BharatmalaPariyojana) between Ch. 119+120 in Village Sangana District Jalore.

The same was forwarded to the Authority Engineer vide letter under ref.(4) deployed on project captioned to scrutinize the proposal in accordance with the Ministry's guidelines, issued vide letter no. RW/NH-33044/29/2015 S&R(R) dated 22.11.2016 and was asked to submit comments / recommendation. Authority Engineer vide letter under ref.(3) submitted recommendation after examination of proposal in the light of Ministry Guidelines. Vide this office letter no. 1176 dated 10.05.2022 a demand note for license fee and Bank Guarantee in accordance with Ministry Circular no. RW/NH-33044/29/2015 S&R(R) dated 22.11.2016 was issued Executive Engineer (T&C) RRVPNL, Sirohi for submission Bank Guarantee & Licence fees.

Assistant Engineer (T&C) RRVPNL, Jalore vide their letter no. 138 dated 03.08.2022 submitted Bank Guarantee & Licence fees. Vide this office letter no. NHAI/PIU/Jod/2022/BG conf/2050 dated 18.08.2022 and NHAI/PIU/Jod/2022/BG conf/1864 dated 02.08.2023 has requested RO-Jaipur for confirmation of the BG on SFMS. Further, RO-Jaipur vide letter no. NHAI/22025/1/2023/RO, Jaipur/BG/1400 dated 11.08.2023 has confirmed that the BG is Shown on SFMS.



सत्यमेव जयते

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

(Ministry of Road Transport & Highways, Government of India)

परियोजना कार्यान्वयन इकाई, जोधपुर- 188, उम्मेद हैरिटेज, रातानाड़ा,

जोधपुर- 342011 (राजस्थान)

Project Implementation Unit- Jodhpur - 188, Umaid Heritage, Ratanada

Jodhpur - 342011 (Rajasthan), फोन / Tel. : 0291-2510065, 2511165

ई-मेल: jodhpur@nhai.org, jodhpurpiu3@gmail.com



Hence proposal submitted by Executive Engineer (T&C) RRVPNL, Sirohi for for 132 KV S/C Jeewana-Khokha line is crossing NHAI (Bharatmata Pariyojana) between Ch. 119+120 in Village Sangana District Jalore is being submitted along documents details as under:-

- 1) As per MoRTH circular dated 22.11.2017 license agreement on 500/- Rs. Stamp and under taking as per SI No. 10.0 to 10.8 are enclosed.
- 2) DLC rates duly verified by Revenue Office are enclosed.
- 3) Certified calculation sheet showing calculation amount of Bank Guarantee is enclosed.

In view of above, the detailed proposal is herewith submitted with recommendation of PIU for accord of approval of Competent Authority.

Thanking you,

Yours faithfully,

Encl: (2 Original, 1 Copy)

(GPS Chauhan)
Project Director

- Copy to:
1. M/s Chaitanya Projects Consultancy Pvt. Ltd. for information.
 2. M/s NG Projects Limited: for information.
 3. The Executive Engineer (O&M) JdVVNL, Sirohi for information.

Guidelines for Project Directors for processing the proposal for laying of over head line in the land along National Highway vested with NHAI.

General Information

1	Name and address of the Applicant/Agency	Rajasthan Rajya Vidyut Prasaran Nigam Ltd. Jaipur
2	National Highway Number	NH-754 K (BHARATMALA)
3	State	Rajasthan
4	Location	Village-SANGANA (JALORE)
5	Chainage in KM	119-120
6	Span Length in Meters	120 mtr
7	Width of available ROW	70mtr.
(a)	Left side from center line towards increasing chainage/KM direction	
(b)	Right side from center line towards increasing chainage/KM direction	
8	Side of NH (Left or Right side of NH towards increasing chainage/KM direction)	132 KV Line crossing at 119+810
9	Name of Highways Authority of NHAI/PWD/BRO	NHAI
10	Highway Administration address	Highway administration Cum Regional Officer MORTH, F- 120, Jan Path, Saket Nagar, Shyam Nagar, Jaipur, Rajasthan 302019


Executive Engineer (T&C)
RVPNL, Sirohi


Manager (Tech.)
NHAI, PIU Jodhpur




**CONSTRUCTION OF 132 KV S/C LINE FROM 132 KV GSS KHOKHA TO
132 KV GSS JEEWANA**

(Part-1)

NHAI Crossing Details

National Highway-754 K (BHARATMALA) Crossing Between Location Number 119-120

Name of line which is crossing	132 KV S/C LINE FROM 132 KV GSS KHOKHA TO 132 KV GSS JEEWANA (Overhead Crossing)
NH which is being crossed	NH-754 K (BHARATMALA)
NH-BHARATMALA Road width	35 Mtr
Crossing Angle	90 DEGREE
Village Name	Sangana, District- Jalore
Crossing Span	Overhead Crossing
Loc. No. 30	132 KV D/C TTB+6
Loc. No. 31	132 KV D/C TTD+6
Type of Tower	Galvanised Lattice Tower
Distance of Towers from Centre of the Road	60 mtr & 60 mtr
Minimum Sag at 0°, No wind	0.59 mtr
Maximum Sag at 75°, No wind	1.57 mtr
Vertical clearance from Lowest point of Conductor	14.10 Mtr.
Right of Way for 132 KV Lines	27 meter


Executive Engineer (T&C)
RVPNL, Sirahi


Manager (Tech.)
NHAI, PIU Jodhpur


Project Director
NHAI
PIU Jodhpur



S. N.	Item	Measurement. Observations as per site conditions	MORTH Norms	Whether complying with MORTH Norms
1	Detail of already laid utility service, if any	Enclosed	Enclosed	Yes
2	Whether up gradation of the stretch in near future is proposed or not			
	(a) If yes, provision of utility adversely affect the plan of up-gradation	NA	Not affect plan of up-gradation	-
3	Laying of the utility service along the National Highways			
3.1	Location of proposed utility service along the stretch	NA	Utility Duct / beyond the toe line of the embankment and drains, and close to the extreme edge of the RoW.	-
3.2	Depth of top of utility service from ground level	NA	0.6 meter	-
3.3	Mechanism for crossing water channel	NA	Through utility duct (if provision exists) or beneath the bed of water channel	-
3.4	Whether ROW is restricted in this stretch ?			
3.4.1	If yes, whether provision of land acquisition is required to lay utility	NA		-
	(a) If yes, whether undertaking for land acquisition along with relevant L.A. details has been furnished	NA		-
3.4.2	Width of concrete duct, if utility services are proposed to be laid in concrete ducts	NA	Not less than one lane	-
4	Laying of utility services across the NH			
4.1	Whether Existing drainage structures is allowed to carry the utility lines.	NA	Not to be allowed	-
4.2	Proposed crossing of utility service	90 Degree	Perpendicular to NH or near to 90 Degree	Yes
4.3	Type of casing pipe / conduit carrying the utility line.	NA	Steel, cast iron or reinforced cement concrete and have adequate strength	-
4.4	Whether ends of the casing / conduit pipe are sealed from the outside	NA	Scaled	-
4.5	Length of casing / conduit pipe crossing NH.	NA	Extend from drain to drain in cuts and toe to toe of slope in the fills	-
4.6	Depth of top the casing / conduit pipe	NA	At least 1.2 m below the top of subgrade	-

[Signature]
 Executive Engineer (T & C)
 NHAI, Jodhpur



[Signature]
 Executive Engineer (T & C)
 RVPNL, Sirahi

[Signature]
 Project Director
 NHAI
 PIU, Jodhpur

4.7	Crossing method in case of CC pavement.	NA	Only boring method (I/DD)	-
4.8	Horizontal and vertical clearances in case utilities are allowed overhead.	(17 mtr) More than 9.10 mtr	In accordance with IRC codes & RRVPNL Guidelines	Yes
5	Documents / Drawing enclosed with the proposal			
5.1	Cross-Section showing the size of trench for open trenching method	NA	Enclosed, if applicable	-
	(a) Trench width	NA	More than 30 cm and less than 60cm wider than the outer diameter of the utility pipe	-
	(b) Filling of trench	NA	As per ministry guidelines vide letter No. RW / NH-34044 / 29 / 2015 / S&R (R) dated 22.11.2016	-
	(c) 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	Yes
5.4	Plan and profile drawing of stretch showing cross section of road at 20 m distance along with ROW and proposed utility	Enclosed	Enclosed	Yes
6	Methodology for laying of utility line	Enclosed	Enclosed	Yes
7	Draft License Agreement is as per Ministry guidelines vide letter No. RW / NH-34044 / 29 / 2015 / S&R (R) dated 22.11.2016 and signed by two witnesses	Enclosed	Enclosed	Yes
8	License fees in favor of MORTI RPAO Jaipur	Undertaking Enclosed	As per Ministry guidelines vide letter no. RE/NH-34044/29/2015/S&R dated 22.11.2016	Yes
9	Whether bank guarantee has been obtained			
	(a)if yes, whether confirmation of BG has been obtained as per MORTI / NHAI guidelines.	Undertaking Enclosed	As per Ministry guidelines vide letter no. RE/NH-34044/29/2015/S&R dated 22.11.2016	Yes

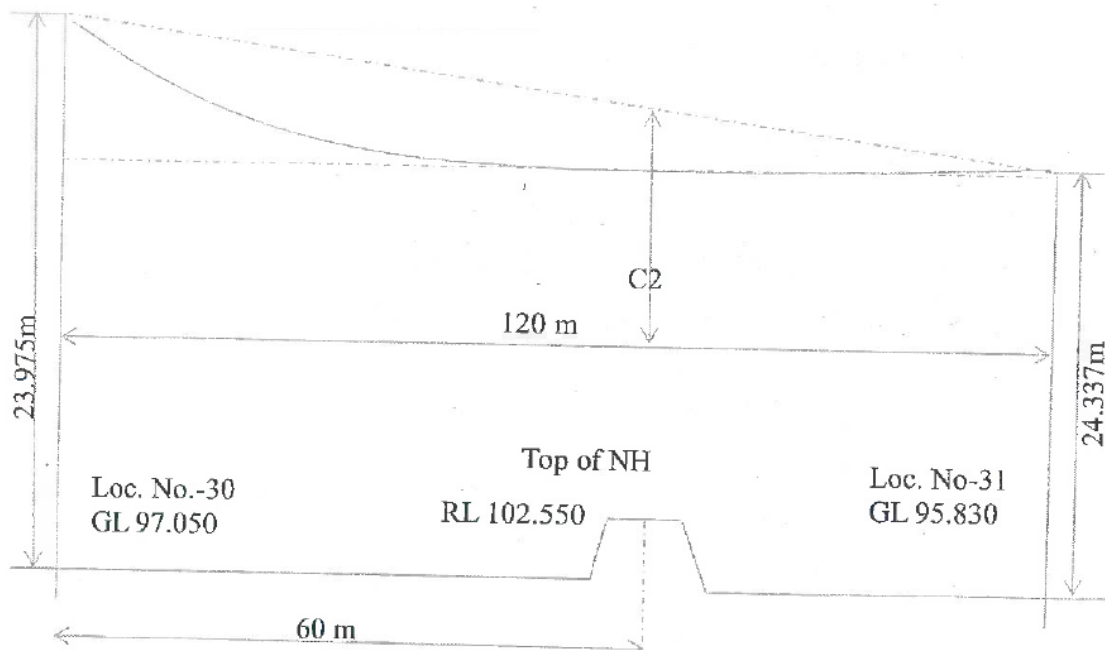
Executive Engineer (T & C)
RVPNL: Sirohi

Manager (Tech.)
NHAI, RVPNL Jaipur

Project Director
NHAI
RVPNL Jodhpur



Team Leader



SAG CALCULATION SHEET AT 0°C

L Span= (mtr)	120
T1 Max at 0°C= (Kg)	2990
W= (kg/m)	0.974
h=level difference (mtr) =	23.975+97.050-95.830-24.337
h (mtr)=	0.858
$L1 = L/2 - T1 \times h / L \times W$	
L1=	38.05

Null point has shifted negative side from 120 Mtr span, due to unequal tower height, so L1 will be consider as max span length

$$L1 \text{ (mtr)} = 0.00$$

$$S1 \text{ Sag from loc. No. 2} = wxL1xL1/2T$$

$$S1 = 0.00$$

$$L2 \text{ (mtr)} = 60.00$$

$$\text{Sag } S2 \text{ from loc.30 at NH} = wxL2xL2/2T$$

$$S2 = 0.59$$

$$\text{Slant Height } C2 \text{ (mtr)} = (L2 \times h) / L = 0.43$$

$$\text{Hence clearance at NH} = 23.975 - (102.550 - 97.050) - S2 + C2 =$$

$$18.318$$

Practically clearance on Nationa highway road will be less than above but always above 9.10 mtr

SAG CALCULATION SHEET AT 75°C

L Span= (mtr)	120
T1 Max at 75°C= (Kg)	1119
W= (kg/m)	0.974
h=level difference (mtr) =	23.975+97.050-95.830-24.337
h (mtr)=	0.858
$L1 = L/2 - T1 \times h / L \times W$	
L1=	51.79

Null point has shifted negative side from 120 Mtr span, due to unequal tower height, so L1 will be consider as max span length

$$L1 \text{ (mtr)} = 32.77$$

$$S1 \text{ Sag from loc. No. 2} = wxL1xL1/2T$$

$$S1 = 0.47$$

$$L2 \text{ (mtr)} = 60.00$$

$$\text{Sag } S2 \text{ from loc.2 at NH-125} = wxL2xL2/2T$$

$$S2 = 1.57$$

$$\text{Slant Height } C2 \text{ (mtr)} = (L2 \times h) / L = 0.43$$

$$\text{Hence clearance at NH} = 23.975 - (102.550 - 97.050) - S2 + C2 =$$

$$17.337$$

Practically clearance on Nationa highway road will be less than above but always above 9.10 mtr

Executive Engineer (T & C)
RVPNL; Sirohi

