



**भारतीय राष्ट्रीय राजमार्ग प्राधिकरण**  
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)  
**National Highways Authority of India**  
(Ministry of Road Transport & Highways, Government of India)



सत्यमेव जयते

परियोजना कार्यान्वयन इकाई, अजमेर  
बी-136-सी, बी-ब्लॉक, पंचशील नगर, अजमेर-305004 (राज.)

**Project Implementation Unit, Ajmer**

B-136-C, B-Block, Panchsheel Nagar, Ajmer-305004 (Raj.)

Ph. No.: 0145-3559245/ 2680571, E-mail / ई-मेल : [ajmer@nhai.org](mailto:ajmer@nhai.org), Web./ वेब : [www.nhai.gov.in](http://www.nhai.gov.in)

No. NHAI/Ajm/KUA/NH-48/Access-Utility/Overhead-RRVNL/313-314/20950

Date: 05.01.2026

**सार्वजनिक टिप्पणियों का आमंत्रण / Invitation of Public Comments**

**विषय:** Six lanning of Kishangarh-Gulabpura Section of NH-48 (Old NH-79A & 79): **Proposal of Permission for Overhead Crossing for the proposed construction of LILO from 132 KV S/C Gulabpura-Masuda Line for 132 KV GSS Bandanwara - reg.**

**संदर्भ:** Superintending Engineer (T&C), RRVNL, Ajmer letter no. RVPNL/SE/T&C/Ajmer/F. M/s. J.K.Elect./F. Bandanwara line/NHAI/D.877 dated 17.10.2025.

सर्व संबंधितों को सूचित किया जाता है कि अधीक्षण अभियंता (टी.एंडसी.), आरआरवीपीएनएल, अजमेर द्वारा उपरोक्त संदर्भित पत्र दिनांक 17.10.2025 के माध्यम से विषयगत कार्य के लिए एक प्रस्ताव, सक्षम प्राधिकारी, राजमार्ग प्रशासन के अनुमोदन हेतु इस कार्यालय को प्रस्तुत किया है। It is to inform all concern that Superintending Engineer (T&C), RRVNL, Ajmer vide above cited letter dated 17.10.2025 has submitted a proposal to this office for subject work for approval of Competent Authority, Highway Administration.

2. यह प्रस्ताव राजस्थान राज्य के ग्राम-बान्दनवाड़ा, जिला-अजमेर में एनएच-48 किशनगढ़-गुलाबपुरा खंड के किमी 313 से 314 के मध्य ओवरहेड विद्युत लाईन/हाई टेंशन 132 केवी एस/सी गुलाबपुरा-मसूदा लाईन क्रॉसिंग की अनुमति प्रदान करने के लिए है। The Proposal is for grant of Permission for Overhead Electrical Line/Overhead High Tension 132 KV S/C Gulabpura-Masuda Line at NH-48 on Kishangarh-Gulabpura section between Km 313 to 314 near Village-Bandanwara, District-Ajmer in the State of Rajasthan.

3. मंत्रालय के दिनांक 22.11.2016 के परिपत्र संख्या आरडब्ल्यू/एनएच-33044/29/2015 एसएंडआर (आर) के पैरा-4 के अनुसार, दावे और आपत्तियां (सार्वजनिक असुविधा, सुरक्षा और सामान्य सार्वजनिक हित के आधार पर) मांगने के लिए आवेदन को 30 दिनों के लिए सार्वजनिक डोमेन में रखा जाएगा। As per para-4 of Ministry's Circular 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 ground of public inconvenience, safety and general public interest).

4. उपरोक्त के मद्देनजर, सक्षम प्राधिकारी के अनुमोदन से पहले, मंत्रालय के दिनांक 22.11.2016 के परिपत्र के संदर्भ में, इस खंड पर क्रॉसिंग बिछाने और पार करने के कारण प्रभावित जनता की टिप्पणियाँ/आपत्तियाँ आमंत्रित की जाती हैं। आपत्तियाँ/टिप्पणियाँ नीचे दिए गए पते पर निर्धारित तिथि **04.02.2026** तक भेजी जा सकती हैं, नियत तिथि के बाद कोई भी टिप्पणी/आपत्ति स्वीकार नहीं की जाएगी। 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 and crossing of utility on the subjected stretch. The objections/comments may be addressed to the below mentioned address upto **04.02.2026**, beyond due date, no comments/objections will be accepted.

<p><b>परियोजना निदेशक, प.का.ई.-अजमेर</b> भारतीय राष्ट्रीय राजमार्ग प्राधिकरण बी-136-सी, बी-ब्लॉक, पंचशील नगर, अजमेर-305004 टेलीफोन: 0145-2680571, ई-मेल: <a href="mailto:ajmer@nhai.org">ajmer@nhai.org</a></p>	<p><b>Project Director, PIU-Ajmer</b> National Highways Authority of India, B-136-C, B-Block, Panchsheel Nagar, Ajmer-305004 Tel.: 0145-2680571, E-mail: <a href="mailto:ajmer@nhai.org">ajmer@nhai.org</a></p>
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(हरि सिंह गोला)  
परियोजना निदेशक

प्रतिलिपि:

- वेब प्रशासन, भाराराप्रा, मुख्यालय, नई दिल्ली – भाराराप्रा की वेबसाइट पर अपलोड करने हेतु [[web-admin@nhai.org](mailto:web-admin@nhai.org)]
- निदेशक, एनआईसी, नई दिल्ली – मंत्रालय की वेबसाइट पर अपलोड करने हेतु [[mansoor@nic.in](mailto:mansoor@nic.in)]
- क्षेत्रीय अधिकारी, भाराराप्रा, क्षेत्रीय कार्यालय, जयपुर – को सूचनार्थ प्रेषित।
- अधिकृत प्रतिनिधि, M/s. Rajasthan IV 4B Power Transmission Ltd., Nagaur – को सूचनार्थ प्रेषित।



**RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED**

(An ISO 9001-2015 Certified Company)

Corporate Identity Number (CIN): L40109RJ2000SGC016485  
(Registered Office Vidyut Bhawan, Jan Path, Jyoti Nagar, Jaipur)

**OFFICE OF SUPERINTENDING ENGINEER (T&C)**

SHASTRI NAGAR AJMER 305001, TELEFAX: 0145-2977242

**E-Mail ID:** [se.tnc.ajmer@rvpn.co.in](mailto:se.tnc.ajmer@rvpn.co.in) **Website:** <http://enegy.rajasthan.gov.in/rvpnl>



**NO. RVPN/SE/T&C/Ajmer/F. M/s. J.K.Elect.. / F. Bandanwara line/NHAI / D. 877 DATED: -17.10.2025**

Project Director,  
NHAI, Ajmer.

**Subject:** - Submission of NHAI crossing case for the proposed construction of LILO form 132 KV S/C Gulabpura- Masuda line for 132 KV GSS Bandanwara.

**Reference:** - 1. RVPN/XEN/T&C/Ajmer/f. /D. 252 Dt. 17.10.2025.

In reference to above cited subject the kindly find enclosed here with the NHAI crossing case for the proposed construction of LILO form 132 KV S/C Gulabpura- Masuda line for 132 KV GSS Bandanwara.

It is submitted the the proposed line will be crossed of NH-48 between the change No. 313-314 near Bandanwara.

Enclosed: (Original in two copy)  
Duplicate in (2 copies)

  
**Superintending Engineer (T&C)**  
**R.V.P.N.L., Ajmer**

Copy submitted/forwarded to the following for information and further n/action:

1. The Zonal Chief Engineer (T&C), RVPN, Ajmer.
2. The Executive Engineer(T&C) RVPN, Ajmer.
3. M/s. J.K. Electrical, Jaipur.

  
**Superintending Engineer (T&C)**  
**R.V.P.N.L., Ajmer**

### My Applications

Sno	Application Ref. No	State/District/Highway	Application Category/items (Click on Category Name to Add/Edit Locations)	Stage	Approvals Accorded	Application Location	Add New
1	20251006/3/1/13180/60222 [New]	RAJASTHAN [AJMER ] NH48 NEW [NH48 NEW 1 Category 6 Lane	<ul style="list-style-type: none"> <li>Private Properties                             <ul style="list-style-type: none"> <li><a href="#">Fill Details</a></li> </ul> </li> </ul>	Under Submission	--		Edit    Delete <input type="button" value="Submit"/>

**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-48
3	State	Rajasthan
4	Location	Village-Bandanwara (Beawar)
5	Chainage in KM	56+700
6	Span Length in Meters	140 mtr
7	Width of available ROW	60 Mtrs
(a)	Left side from center line towards increasing chainage/KM direction	72m
(b)	Right side from center line towards increasing chainage/KM direction	68m
8	Side of NH (Left or Right side of NH towards increasing chainage/KM direction)	132 KV Line crossing at 56+700
9	Name of Highways Authority of NHAI/PWD/BRO	NHAI
10	Highway Administration address	Highway Administration Cum Regional Officer MORTH, DCM, Ajmer Road, Jaipur

*Jaipur*  
Assistant Engineer (T&C)  
RRVNL, Beawar

*Jaipur*  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

*Jaipur*  
SE (T&C)  
RVPN, AJMER

S. N.	Item	Measurement/Obse rvation 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	Sealed	-
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	-
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.	(14.00m) More than 11.60 mtr	In accordance with IRC codes & RRVPNL Guidelines	Yes
5	Documents / Drawing enclosed with the proposal			

Assistant Engineer (T&C)  
RRVPNL, Beawar

Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

SE (T&C)  
RRVPNL, Beawar

10.6	Undertaking for management of traffic movement during laying of utility line without hampering the traffic.	Enclosed	Enclosed	Yes
10.7	Undertaking that if any claims is raised by the Concessionaire / contractor then the same has to be paid by the applicant.	Enclosed	Enclosed	Yes
10.8	Undertaking that the applicant has obtained various safety clearances from the representative authorities such as directorate of Electricity, Chief controller of Explosives, Petroleum and Explosive Safety Organization, Oil Industry Safety Directorate, State / Central Pollution Control Board and any other statutory clearances applicable, before applying to Highway Administration.	Enclosed	Enclosed	Yes

The Right of Way (ROW) of the National Highway available at the proposed location from the centering of divided carriageway is 30 Mtr. From center of ROW to edge of ROW towards proposed utility.

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

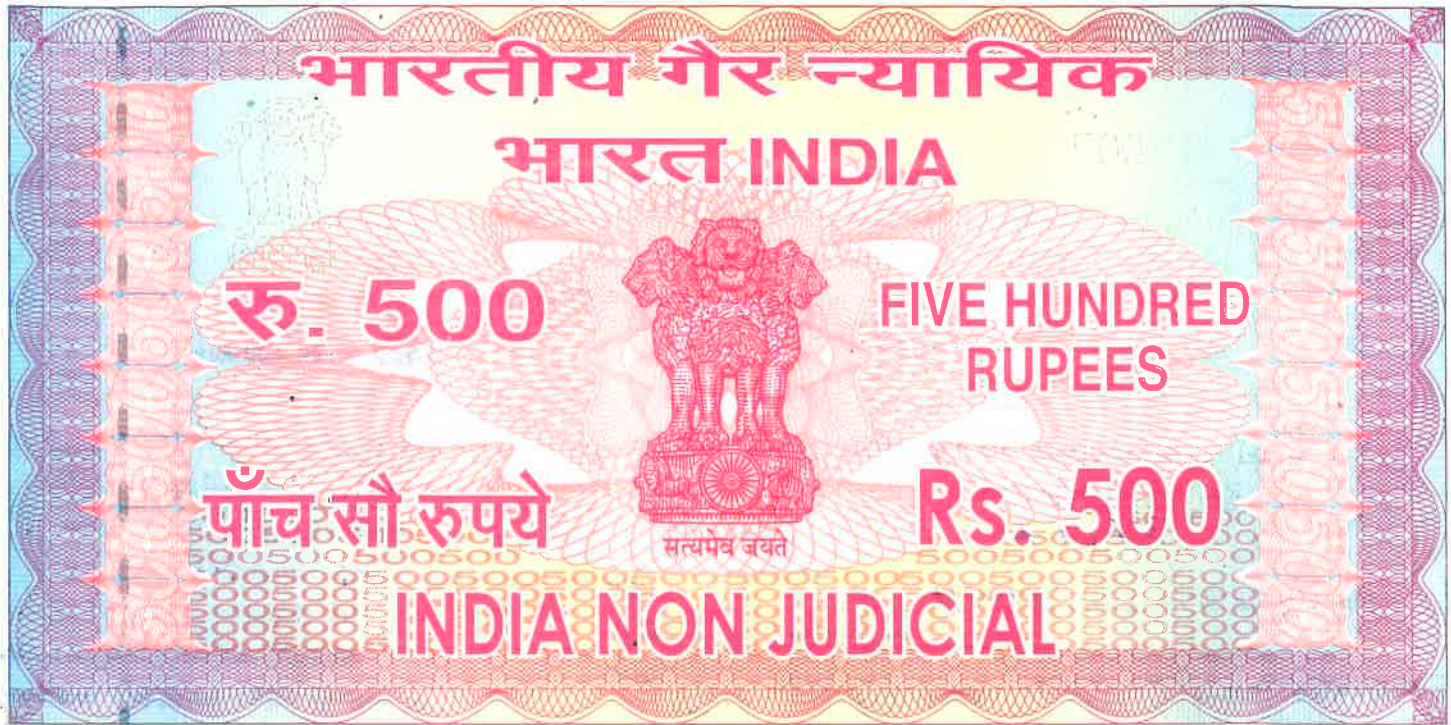
**Name, Designation & Signature of the authorized representative of applicant**

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER





राजस्थान RAJASTHAN

AE 222003



Enclosure to Ministry of Road Transport & Highways letter No. 33044 / 29 / 2015 / S&R(R) dated 22.11.2016

**AGREEMENT REGARDING GRANTING OF RIGHT OF WAY PERMISSIONS**

**FOR LAYING UTILITY SERVICES ON NATIONAL HIGHWAYS**

Agreement to lay Construction of 132 KV LILO of 132 KV S/C Gulabpura-Masuda Line for 132 KV GSS Bandanwara by Rajasthan Rajya Vidyut Prasaran Nigam Ltd., Jaipur (Raj.) for crossing on National Highway-48 between chainage No. 313-314 at Bandanwara, District-Ajmer in the state of Rajasthan.

*Wipu*  
Assistant Engineer (T&C)  
RRVNL, Beawar

*17.10.16*  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

*SE (T&C)*  
RVPN, AJMER

This Agreement made this .....day of .....(month) of 2025 between.....acting in his executive capacity through

..... (hereinafter referred to as the "Authority" which expression shall unless excluded by or repugnant to the context, include his successors in office and assigns) on the one part, and M/s RRVPNL, a company registered under the Companies Act-1956 and having Registered Office at Vidyut Bhawan, Janpath, Jyoti Nagar, Jaipur (hereinafter called the "Licensee") which expression shall unless excluded by repugnant to the context, include his successors/ administrator assignees on the second part.

Whereas the Authority is responsible, inter-alia, for development and maintenance of land between KM chainage No. 313-314 of NH-48 ROW.

Whereas the Licensee proposes to lay of 132 KV LILO of 132 KV S/C Gulabpura-Masuda Line for 132 KV GSS Bandanwara by Rajasthan Rajya Vidyut Prasaran Nigam Ltd., Jaipur (Raj.) for crossing on National Highway-48 between chainage No. 313-314 at Bandanwara, District-Ajmer in the state of Rajasthan referred to as utility services in subsequent paras.

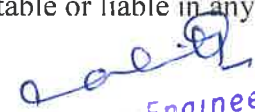
Whereas the licensee has applied to the Authority for permission to lay of 132 KV LILO of 132 KV S/C Gulabpura-Masuda Line for 132 KV GSS Bandanwara by Rajasthan Rajya Vidyut Prasaran Nigam Ltd., Jaipur (Raj.) for crossing on National Highway-48 between KM chainage No. 313-314 at Bandanwara, District- Ajmer in the state of Rajasthan.

And whereas the Authority has agreed to grant such permission for way leave on the NH Row as per terms conditions herein after mentioned.

Now this agreement witnessed that consideration of the conditions hereinafter contained and on the part of the Licensee to be observed and performed, the Authority hereby grants to the Licensee permission to lay utility services as per the approved drawing attached here to subject to the following conditions, namely.

1. Row permission are only enabling in nature. The purpose of extending the way leave facility on the National Highway ROW is not for enhancing the scope of activity of a utility service provider, either by content of by intent. Further, enforceability of the permission so granted shall be restricted only to the extent of provisions/ scope of activities defined in the license agreement & for the purpose for which it is granted.
2. No Licensee shall claim exclusive right on the Row and any subsequent user will be permitted to use the Row, either above or below, or by the side of the utilities laid by first user, subject to technical requirements being fulfilled. Decision of the Authority in relation to fulfillment of technical requirements shall be final and binding on all concerned parties. In case any disruption/damage is caused to any existing user by the subsequent user, the Authority shall not be held accountable or liable in any manner.


  
Assistant Engineer (T&C)  
RRVPNL, Beawar


  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER




3. The Licensee shall be responsible for undertaking all activities including, but not limited to site identification, survey, design, engineering, arranging finance, project management obtaining regulatory approvals & necessary clearances, supply of equipment material, construction, erection, testing and commissioning, maintenance and operation and all other activities essential or required for efficient functioning of their own utility/ industrial infrastructure facilities.
4. The licensee shall pay licensee fees @ Rs...../sqm/ month to the Authority. The Licensee fee shall become payable from the date of handing over of Row land to the Licensee, for laying of utilities/cable/conduits/pipelines for infrastructure/service provider. As regards Tariff and Terms and conditions for providing common utility ducts along National Highways, there shall be a separate agreement regime.
5. Fee shall have to be paid in advance for the period for which permission is granted for entering into a license agreement. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @15% per annum compounded annually.
6. Present policy of the MORTH is to provide a 2.00m wide utility corridor on either side of the extreme edge of ROW. In cases where utility ducts with sufficient space are already available along NH, the utility services shall be laid in such ducts subject to technical requirement being fulfilled.
7. The utility services shall be laid at the edge of the ROW. In case of restricted width of ROW, which may be adequate only to accommodate the carriageway, central verge, shoulders, slopes of embankment, drains, other road side furniture etc; the utility services shall be laid beyond the toe line of the embankments and clear of the drain.
8. The licensee shall make his own arrangement for crossing of cross drainage structure, rivers etc. below the bed. In case, this is not feasible, the utility services may be carried outside the railings/ parapets and the bridge superstructure. The fixing and supporting arrangement with all details shall be required to be approved in advance from concerned Highway Administration. Additional cost on account of fixing and supporting arrangement as assessed by the Authority shall be payable by the licensee.
9. In exceptional cases, where Row is restricted the utility services can be allowed beneath the carriageway of service road, if available, subject to the condition that the utility services be laid in concrete ducts, which will be designed to carry traffic on top. The width of the duct shall not be less than one lane. In such cases, it also needs to ensure that maintenance of the utility services shall not interfere with the safe and smooth flow of traffic. The cost of operation and maintenance will have to be borne by the Licensee.


  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.A.V.P.N.Ltd., AJMER

  
RVPN, AJMER

10. It is to be ensured that at no time there is interference with the drainage of the road land and maintenance of the National Highways. Towards this, top of the utility services shall be at least 0.6 meter below the ground level. However, any structure above ground shall be aesthetically provided for/ landscaped with required safety measures as directed by the concerned Authority.
11. The utility services shall be permitted to cross the National Highway either through structure or conduits specially built for that purpose. The casing/ conduit pipe should, as minimum, extend from drain to drain in cuts and toe of slope to toe of slopes in the fills and shall be designed in accordance with the provision of IRC and executed following the Specifications of the Ministry.
12. Existing drainage structure shall not be allowed to carry the lines across.
13. The top of the casing/ conduit pipe containing the utility services to cross the road shall be at least 1.2m below the top of the sub grade or the existing ground level whichever is lower, subject to being at least 0.3m below the drain inverts. A typical sketch showing the clearances is given in Attachment-I.
14. The utility services shall cross the National Highway preferable on a line normal to it or as nearly so as practicable.
15. The casing/ conduit pipe for crossing the road may be installed under the road embankment either by boring or digging a trench. Installation by boring method shall be preferred.
16. In case of trenching, the sides of the trench should be done as nearly vertical as possible. The trench width should be at least 30 cm, but not more than 60 cm wider than the outer diameter of the pipe. Filling of the trench shall conform to the specifications contained here-in-below or as supplied by the Highway Authority.
  - a) Bedding shall be to a depth not less than 30 cm. It shall consist of granular material, free of lumps, clods and cobbles, and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edges should be excavated and replaced by selected material.
  - b) The backfill shall be completed in two stages (i) Side-fill to the level of the top of the pipe (ii) Overfill to the bottom of the road crust.
  - c) The side fill shall consist of granular material laid in 15 cm. Layers each consolidated by mechanical tamping and controlled addition of moisture to 95% of the Proctor's density. Overfill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or ponding will not be permitted.
  - d) The Road crust shall be built to the same strength as the existing crust on either side of the trench or to thickness and specification stipulated by the Highway Authority.

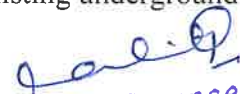
  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
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17. The Licensee shall ensure making good the excavated trench for laying utility services by proper filling and compaction, so as to restore the land in to the same condition as it was before digging the trench, clearing debris/ loose earth produced due to execution of trenching as least 50m away from the edge of the right of way.
18. All required restoration work subsequent to laying of the cable shall be required to be undertaken by the Licensee at its cost either by itself or through its authorized representative in consultation with the Authority as per predetermined time schedule and quality standards.
19. Prior to commencement of any work on the ground a performance Bank Guarantee @ Rs. Per route meter with a validity of one year initially (extendable if required till satisfactory completion of work) shall have to be furnished by the Licensee to the Authority/ its designated agency as security against improper restoration of ground in terms of filling/unsatisfactory compaction damages caused to other underground installations/ utility services & interference, interruption, disruption or failure caused thereof to any service etc. In case of the Licensee failing to discharge the obligation of making good of the excavated trench/other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.
20. In case the Performance Bank Guarantee is invoked as mentioned above, the Licensee shall be required to replenish and reinstate the required Performance Bank Guarantee within one month of such invoking. In case the work contemplated herein is not completed to the satisfaction of the Authority, which has granted the permission, within a period of 11 month from the date of issue of the Bank Guarantee, the Licensee shall either furnish a fresh guarantee or extend the guarantee for a further period of one year. Notwithstanding this, the Licensee shall be liable to pay full compensation to the aggrieved Authority/its designated agency for any damage sustained by them by reason of the exercise of the Row facility.
21. The Licensee shall shift the utility services within 90 days (or as specified by the respective Authority) from the date of issue of the notice by the concerned Authority to shift/relocate the utility services, in case it is so required for the purpose of improvement/widening of the road/ route/highway or construction of flyover/ bridge restore the road/land to its original condition at his own cost and risk.
22. The Licensee shall be responsible to ascertain from the respective agency in coordination with Authority, regarding the location of other utilities/ underground installation/ facilities etc. The Licensee shall ensure the safety and security of already existing underground/ installation/utilities/ facilities etc. before commencement of the excavation/ using/ the existing cable ducts. The Licensee shall procure insurance from a reputed insurance company against damage to already existing underground installation/ utilities/facilities etc.


  
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RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER

23. The Licensee shall be solely responsible/ liable for full compensation/ indemnification of concerned agency/ aggrieved Authority for any direct, indirect or consequential damage caused to them/claims or replacements sought for, at the cost and risk of the licensee. The concerned agency in coordination with Authority shall have a right make good such damage/ recover the claims by forfeiture by Bank Guarantee.
24. If the Licensee fails to comply with any condition to the satisfaction of the Authority, the same shall be executed by the Authority at the cost and risk of the Licensee.
25. Grant of License is subject to the Licensee satisfying (a) minimum disruption of traffic and (b) No damage to the highways. As far as possible, The Licensee should avoid cutting of the road for crossing highway and other roads and try to carry out the work by trenchless technology. In case any damage is caused to the road pavement in this process, the Licensee will be required to restore the road to the original condition at its cost. If due to unavoidable reason the road needs to be cut for crossing or laying utility services, the Licensee has to execute the restoration work in a time bound manner at its cost either by itself or through its authorized representative in consultation with the Authority as per predetermined time schedule and quality standards. In case of the Licensee failing to discharge the obligation of making good of the executed trench/ other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.
26. The Licensee shall inform/ give notice to the concerned agency designated by the Authority at least 15 day in advance with route details prior to digging trenches, for fresh or maintenance/ repair works. A separate performance Bank Guarantee for maintenance/ repair works shall have to be furnished by the Licensee.
27. Each day, the extent of digging the trenches should be strictly regulated so that utility service is laid and trenches filled up before the close of the work that day. Filling should be completed to the satisfaction the concerned agency designated by the Authority.
28. The licensee shall indemnify the concerned agency in coordination with authority, against all damages and claims, if any due to the digging of trenches for laying cable/ducts.
29. The permission for laying utility services is granted maximum for 5 year at a time, which can thereafter be considered for renewal. On payment of additional fee at the time of renewal, the permission shall automatically be renewed, unless defaults exist. In case of renewal, rate prevailing at the time of renewal, shall be charged. Delay in deposition of fee shall attract interest @ 15% per annum compounded annually.
30. The permission shall be valid only for the period it is issued and fee deposited. However, the authority also has a right to terminate the permission or to extend the period of Agreement.

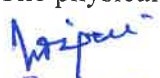
  
Assistant Engineer (T&C)  
RRVPNL, Beawar

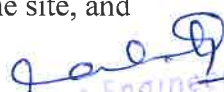
  
Executive Engineer (T&C)  
R.R.V.P.N. Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER



31. That the licensee shall not undertake any work of shifting, repairs or alterations to the utility services without prior written permission of the concerned agency in coordination with the authority.
32. The permission granted shall not in any way be deemed to convey to the Licensee any ownership right or any interest in route/ road/ highway land/property, other than what is herein expressly granted. No use of NH Row will be permitted for any purpose other than that specified in the agreement.
33. During the subsistence of this agreement, the utility service located in highway land/ property shall be deemed to have been constructed and continued only by the consent and permission of the authority so that the right of the Licensee to the use thereof shall not become absolute and indefeasible by lapse of time.
34. The Licensee shall bear the Stamp Duty charged on this Agreement.
35. Three copies of 'as laid drawings' of utility (hard and soft copies) with geo- tagged photographs and geo- tagged video recordings of laying of cables in the trench ( with respect to the NH) and after complete restoration shall be submitted to the Authority for verification and record within a month of completion of works.
36. The Licensee shall allow free access to the site at all times to the authorized representatives of Authority to inspect the project Facilities and to investigate any matter within their Authority, and upon reasonable notice, shall provide reasonable assistance necessary to carry out their respective duties and functions.
37. The utility services shall not be made operational by the Licensee unless a completion certificate to the effect that the utility services has been laid in accordance with the approved specification and drawings and the trenches have been filled up to the satisfaction of the concerned agency in coordination with the Authority has been obtained. Notwithstanding anything contained herein, this agreement may be cancelled at any time by Authority for breach of any condition of the same and the Licensee shall neither be entitled to any compensation for any loss caused to it by such cancellation nor shall it be absolved from any liability already incurred.
38. The Licensee shall ensure adherence to relevant Indian standards and follow best industry practices, methods and standards for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation, repair and maintenance of any part of the utility lines/ industrial infrastructure facilities and which practices, methods and standards shall be adjusted as necessary, to take account of.
  - a. Operation repair and maintenance guidelines given by the manufactures,
  - b. The requirement of law,
  - c. The physical conditions at the site, and


  
**Assistant Engineer (T&C)**  
**RRVPNL, Beawar**

  
**Executive Engineer (T&C)**  
**RRVPNL, AJMER**

  
**SE (T&C)**  
**RVPN, AJMER**

- d. The safety of operating personnel and human beings.
39. The Licensee shall have to provide safety measures like barricading, danger lighting and other necessary caution boards while executing the work.
40. While laying utility services, at least one lane of road shall be kept open to traffic at all times. In case of single lane roads a diversion shall be constructed. If any traffic diversion works are found necessary during the working period such diversion shall be provided at the cost of licensee.
41. After the termination/ expiry of the agreement, the licensee shall remove the utility services within 90 days and the site shall be brought back to the original condition failing which the Licensee will lose their right to remove utility services. However before taking up the work of removal of utility services the Licensee shall provide a Bank Guarantee to the Authority for a period of one year for an amount assessed by the Authority as a security for making good the excavated trench by proper filling and compaction, clearing debris, loose earth produced due to excavation of trenching at least 50m away from the edge of the Row.
42. Any disputes in interpretation of the terms and conditions of the Agreement or their implementation shall be referred to the redress mechanism prevailing in the Ministry and the decision of redress mechanism shall be final and binding on all.
43. For PPP projects, in case any financial loss incurred by the respective project concessionaires to such laying/shifting of utility services by the licensee, compensation for the same shall be required to be borne by the licensee in mutual agreement with the respective project concessionaires. MORTH/NHAI implementing authorities for the project shall not be liable to the concessionaire in any way in this regard.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R. & S.D. Div., AJMER

  
SE (T&C)  
RVPN, AJMER

This agreement has been made in duplicate, each on a stamp paper, each Party to this agreement has retained one stamped copy each.

IN WITNESS WHERE OF THE PARTIES HERETO HAVE CAUSED THIS AGREEMENT TO BE EXECUTED THROUGH THEIR RESEPECTIVE AUTHORISED REPERSENTIVE THE DAY AND THE YEAR FIRST ABOVE WRITTEN.

SIGNED SEALED AND DELIVERED FOR AND OF BEHALF OF AUTHORITY.

BY SHRI.....  
(Signature, name and address with stamp)

SIGNED ON BEHALF ON M/S RRVPNL (LICENSEE)

BY SHRI M.K. JARWAL  
(Signature, name and address with stamp)

HOLDER OF GENERAL POWER OF ATTORNEY DATED.....

EXECUTIVE IN ACCORDANCE WITH THE RESOLUTION NO.....

DATED.....PASSED BY THE BOARD OF DIRECTIONS IN THE MEETING HELD ON IN PRESENCE OF (WITNESS)

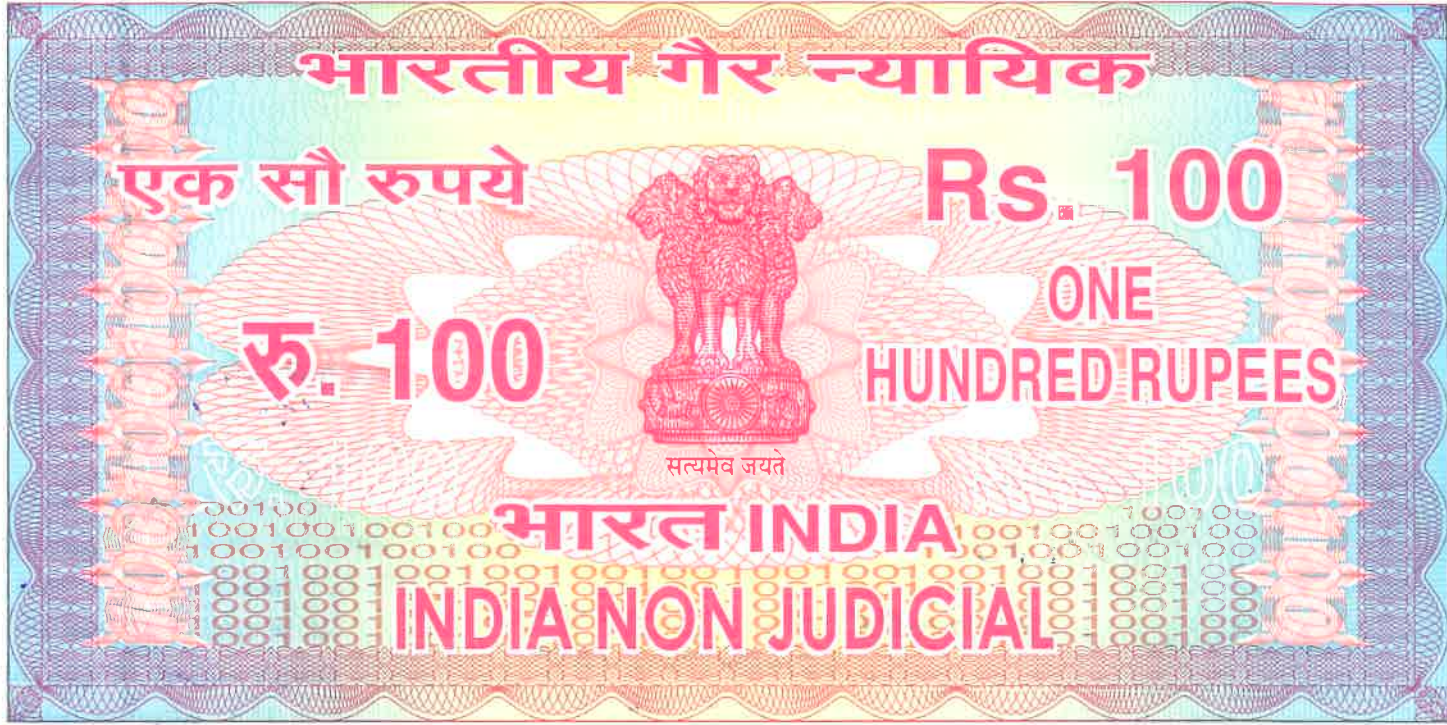
1. D.K. TILWANI  
XEN (T&C), RRVPNL, AJMER

  
17.10.2018  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

2.   
M.R. DIGWAL  
AEN (T&C), RRVPNL, BEAWAR  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
SE (T&C)  
RVPN, AJMER





राजस्थान RAJASTHAN

BY 538288



### UNDER-TAKING

I, D. K. Tilwani (Executive Engineer), on behalf of Rajasthan Rajya Vidhyut Prasaran Nigam Limited, Jaipur having its registered office at Vidyut Bhawan, Jan path , Jyoti Nagar , Jaipur -302005 (here in after the Company) do hereby affirm and hereby undertakes the following:

1. Make the payments of difference of levy charges due to increase in DLC rate during the course of execution.
2. Pay the necessary license fee and land use charges as decided and whenever asked by the NHAI / MORTH.
3. That necessary alterations, including complete removal at its own cost if so required by NHAI / MORTH for the development like improvement or repair on national highway or in the interest of safety in this section, it will be carried out at the cost of the agency owing to the utility line within a reasonable time (not exceeding 60 days) of the intimation given.
4. Expenditure, if any incurred for repairing and damage caused to the national highway by the laying, maintenance or shifting of the utility line will be done by the agency owning the line.
5. Property rights for the land used for lying of utility line along project shall remain with the NHAI / MORTH and shall not claim for the same.
6. Bank Guarantee in favor of NHAI / MORTH as per the specified format of NHAI / MORTH shall be submitted as per the directions of NHAI / MORTH.

*Jaipur*  
Assistant Engineer (T&C)  
RRVNL, Beawar


*17.10.25*  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

*SE (T&C)*  
RVPN, AJMER



7. If NHAI / MORTH desires for renewal of bank guarantee, the user agency undertake to renew the same for the duration asked by NHAI / MORTH.
8. Prior approval of the NHAI / MORTH shall be obtained before undertaking any work of installation, shifting, repairs or alteration of the utility line located in the ROW of national highway.
9. Lying of utility line will not have any deleterious effects on any of the structure components and roadway safety for traffic.
10. Shall be responsible and liable in case of any damage due to utility line, if any.
11. Only specified or technology as directed by NHAI / MORTH shall be used for laying utility line.
12. Shall ensure that there is no traffic disruption during the execution of work.
13. We declare that during execution of work, if any accident or mishap occurred; in such cases we only shall be liable to pay compensation to the concerned during the execution of work, the damages to the road, if any, will also be repaired.
14. Hereby undertake to make the initial permission for 5 years.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
17.10.25  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER

## UNDER-TAKING

We have applied to NHAI Authorities for permission to lay a 132 KV LILO of 132 KV S/C Gulabpura-Masuda Line for 132 KV GSS Bandanwara Power transmission line across NH-48 at Bandanwara, District- Ajmer between chain-age No. 313 - 314 Ajmer to Bhilwara Section.

In this regard we undertake that we don't damage the other utility, If any damaged then We will pay the losses to either to MORTH/NHAI or to the Concerned agency.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
17.10.25  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER


  
SE (T&C)  
RVPN, AJMER

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In this regard we undertake that the Bank Guarantee in favor of NHAI / MORTH as per the specified format of NHAI / MORTH shall be submitted as per the directions of NHAI / MORTH and renewal of Bank guarantees and when asked by NHAI/MORTH.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
17.10.25  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER


  
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RVPN, AJMER

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In this regard we undertake that we will confirming all standards condition of MORTH/NHAI guidelines.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
17.10.25  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER




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In this regard we undertake that “RRVPNL” will shifting of utility as and when asked by MORTH/NHAI within a month at their own cost.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER

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In this regard we undertake that “RRVPNL” will indemnity against all damages & claims.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER


  
SE (T&C)  
RVPN, AJMER

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In this regard we undertake that “RRVPNL” will manage of traffic movement during laying of utility line without hampering the traffic.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER


  
SE (T&C)  
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In this regard we undertake that If any claim is raised by the Concessionaire/contractor then the same has to be paid by the RRVPNL.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER




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In this regard we undertake that “RRVPNL” will obtained various safety clearances from the representative authorities such as directorate of Electricity, Chief controller of Explosives, Petroleum and Explosive Safety Organization, Oil Industry Safety Directorate, State / Central Pollution Control Board and any other statutory clearances If applicable, before applying to Highway Administration.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
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R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER

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In this regard we undertake that If Lane closure charges is raised by the Concessionaire/contractor then the same has to be paid by the RRVPNL.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER


  
SE (T&C)  
RVPN, AJMER

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In this regard we undertake that we don't damage the other utility, If any damaged then We will pay the losses to either to MORTH/NHAI or to the Concerned agency.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER


  
SE (T&C)  
RVPN, AJMER

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In this regard we undertake that the Bank Guarantee in favor of NHAI / MORTH as per the specified format of NHAI / MORTH shall be submitted as per the directions of NHAI / MORTH and renewal of Bank guarantees and when asked by NHAI/MORTH.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER

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In this regard we undertake that we will confirming all standards condition of MORTH/NHAI guidelines.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER




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In this regard we undertake that "RRVPNL" will shifting of utility as and when asked by MORTH/NHAI within a month at their own cost.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R. V.P.N.L. AJMER


  
SET (T&C)  
RVPN, AJMER

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In this regard we undertake that "RRVPNL" will indemnity against all damages & claims.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER

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In this regard we undertake that "RRVPNL" will manage of traffic movement during laying of utility line without hampering the traffic.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER


  
SE (T&C)  
RVPN, AJMER

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In this regard we undertake that If any claim is raised by the Concessionaire/contractor then the same has to be paid by the RRVPNL.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER

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In this regard we undertake that "RRVPNL" will obtained various safety clearances from the representative authorities such as directorate of Electricity, Chief controller of Explosives, Petroleum and Explosive Safety Organization, Oil Industry Safety Directorate, State / Central Pollution Control Board and any other statutory clearances If applicable, before applying to Highway Administration.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER



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In this regard we undertake that traffic movement during the execution of work (i.e. Overhead crossing) will be managed by RVPN if any.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER

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In this regard we undertake that not to damage other utilities. If damaged then to pay the losses either to the NHAI or to the concern agency.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER

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In this regard we undertake that there should not be any hindrance to traffic movement during execution of 132 KV Overhead line crossing work and all safety measurement shall be taken at their own cost.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER

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In this regard we undertake that RVPN will make the payments of difference of levy charges due to increase in DLC rate during the during execution of 132 KV Overhead line crossing work.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER

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In this regard we undertake that RVPN will pay the necessary license fee and land use charges as decided and whenever asked by the NHAI / MORTH during execution of 220 132 KV Overhead line crossing work.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER



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In this regard we undertake that the property rights for the land used for lying of utility line along project shall remain with the NHAI / MORTH and RVPN shall not claim for the same during execution of 132 KV Overhead line crossing work.

  
Assistant Engineer (T&C)  
RRVPI, Reawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER


  
SE (T&C)  
RVPN, AJMER

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In this regard we undertake that the Bank Guarantee in favor of NHAI / MORTH as per the specified format of NHAI / MORTH shall be submitted as per the directions of NHAI / MORTH.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER

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In this regard we undertake that if NHAI / MORTH desires for renewal of bank guarantee, the user agency undertake to renew the same for the duration asked by NHAI / MORTH.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar


  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER


  
SE (T&C)  
RVPN, AJMER

## UNDER-TAKING

We have applied to NHAI Authorities for permission to lay a 132 KV LILO of 132 KV S/C Gulabpura-Masuda Line for 132 KV GSS Bandanwara Power transmission line across NH-48 at Bandanwara, District- Ajmer between chain-age No. 313 - 314 Ajmer to Bhilwara Section.

In this regard we undertake that the lying of utility line will not have any deleterious effects on any of the structure components and roadway safety for traffic during execution of 132 KV Overhead line crossing work.

  
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RRVPNL, Beawar

  
Executive Engineer (T&C)  
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In this regard we undertake that only specified or technology as directed by NHAI / MORTH shall be used for laying utility line during execution of 132 KV Overhead line crossing work.

  
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In this regard we undertake that we declare that during execution of work, if any accident or mishap occurred; in such cases we only shall be liable to pay compensation to the concerned during the execution of work, the damages to the road, if any, will also be repaired during execution of 132 KV Overhead line crossing work.

  
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## UNDER-TAKING

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In this regard we undertake that we hereby undertake to make the initial permission for 5 years.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
RVPN, AJMER

**132 KV LILO of 132 KV S/C Gulabpura-Masuda Line for  
132 KV GSS Bandanwara**

(Part-1)

**NHAI Crossing Details**

National Highway-48 Crossing Between Location Number 313-314

Name of line which is crossing	132 KV LILO of 132 KV S/C Gulabpura-Masuda Line for 132 KV GSS Bandanwara (Overhead Crossing)
NH which is being crossed	NH-48
NH-48 Road width	30 Mtr
Crossing Angle	90 DEGREE
Village Name	Bandanwara, District- Beawar
Crossing Span	Overhead Crossing
Loc. No. 70	220 KV D/C Narrow Base TTD+3
Loc. No. 71	220 KV D/C Narrow Base TTD+3
Type of Tower	Galvanised Lattice Tower
Distance of Towers from Centre of the Road	68 mtr & 72 mtr
Minimum Sag at 0°, No wind	1.21 mtr
Maximum Sag at 75°, No wind	2.92 mtr
Vertical clearance from Lowest point of Conductor	More than 11.60 mtr
Right of Way for 132 KV Lines	27 meter

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RRVPNL, Beawar

**Executive Engineer (T&C)**  
R.R.V. Limited, AJMER

**SE (T&C)**  
RVPN, AJMER

## LANE CLOSURE TIMING


We require 1 Hours 20 Minutes lane closure of NH-48 for overhead crossing of 132 KV LILO OF 132 KV S/C MASUDA-GULABPURA LINE FOR 132 KV GSS BANDANWARA.

Road require to be closed for 20 minutes time in four slots.

Total slots for pulled up all wires	=	4 Slots
Time required to pulled wires in one slot	=	20 Minutes
Total Time required for lane closure	=	20 X 4 = 80 Minutes (1 Hours 20 Minutes)

We undertake that the claim of lane closure charges of 80 minutes of NH-48 is raised by the Concessionaire the same has been paid by RVPNL.

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
RRVPNL, Ajmer

  
SE (T&C)  
RVPN, AJMER

## Methodology for laying of Utility Transmission Line

**STUB SETTING:-** It is the process of tower foundation, which is already beyond the range of ROW of NH-48 and do not affect/damage the NH-48 in any circumstances.

**TOWER ERECTION:-** It is the process of building the tower on casted foundation, which is also beyond the range of ROW of NH-48.

### CONDUCTOR LAYING:-

- (i) It is the process of laying an overhead conductor between two tower locations.
- (ii) The conductor is an overhead conductor not an underground cable.
- (iii) Both the towers are already beyond the range of ROW of NH-48 and do not affect/damage the NH-48 in any circumstances.

### WORKING METHODOLOGY


1. Two (02) Nos. Tower on both side of the NH-48 already erected as per approved drawing.
2. Thereafter, the traffic will be stopped by the help of Traffic stopper of NHAI, Red Taps, and Red Flags holding by manpower etc. on both the side of Road at Both Directions.

For Safety purpose we will also engage the local Police for avoiding any kind of practical issue and 2-3 Government vehicle will also be available at location for attending an emergency if occurs.

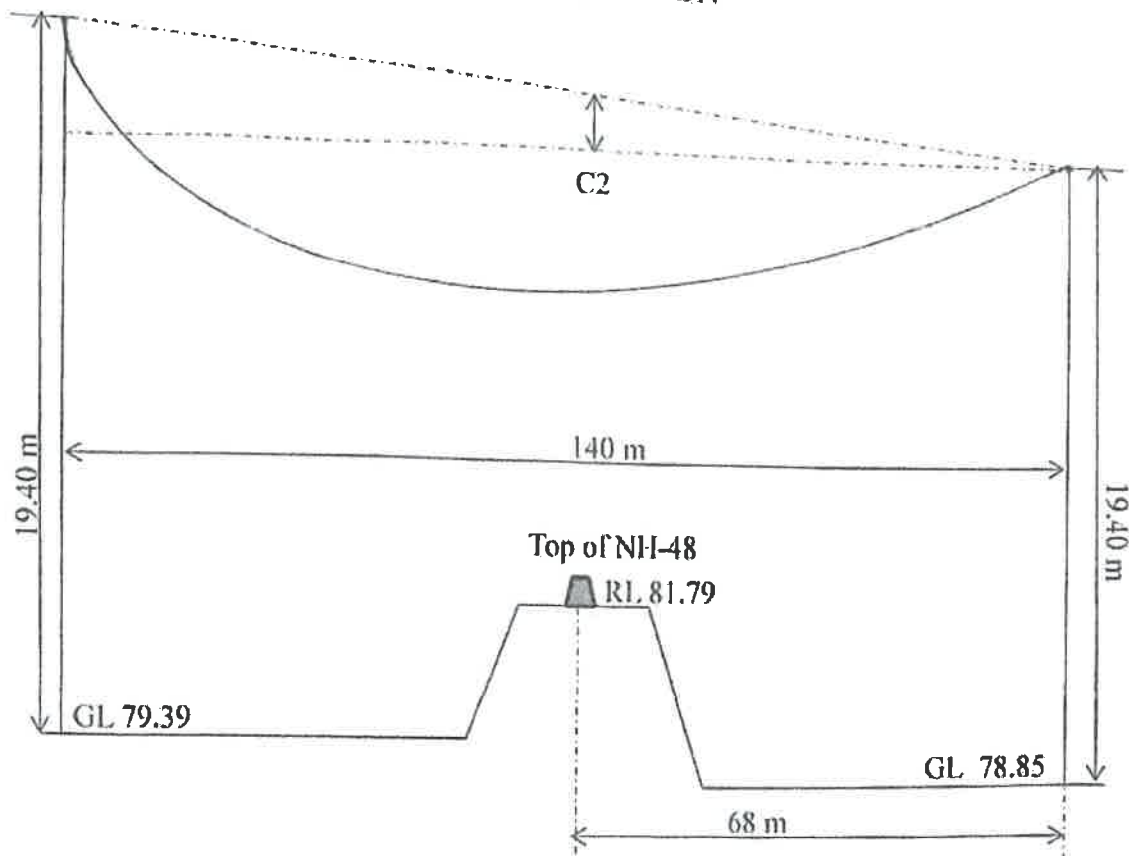
3. Then the conductor will be placed from one side tower structure to another side tower structure and actual stringing will be subsequently made without any delay. The details of slots and its timing is as follows:-

  
Assistant Engineer (T&C)  
RRVPNL, Beawar

  
Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

  
SE (T&C)  
R.R.V.P.N.Ltd., AJMER

# SAG CALCULATION



## SAG CALCULATION SHEET AT 0°C

L Span= (mtr)	140
Tl Max at 0°C= (Kg)	2965
W= (kg/m)	0.974
h=level difference (mtr) =	19.40+79.39-78.85-19.40
	h (mtr)= 0.54
	$L1 = L/2 - T1 \times h / L \times W$
	L1= 58.26

Null point has shifted negative side from 108 Mtr span, due to unequal tower height, so L1 will be consider as max span length

$$L1 \text{ (mtr)} = 58.26$$

$$S1 \text{ Sag from loc. No. 1} = w \times L1 \times L1 / 2T$$

$$S1 = 0.56$$

$$L2 \text{ (mtr)} = 68.00$$

$$\text{Sag } S2 \text{ from loc. 1 at NH-08} = w \times L2 \times L2 / 2T$$

$$S2 = 0.76$$

Slant

$$C2 \text{ (mtr)} = (L2 \times h) / L = 0.26$$

$$\text{Hence clearance at NH-48} = 19.40 - (81.79 - 78.85) - S2 + C2 =$$

$$15.963$$

Practically clearance on Nationa highway road will be less than above but always above 11.60 mtr

## SAG CALCULATION SHEET AT 75°C

L Span= (mtr)	140
Tl Max at 75°C= (Kg)	1233
W= (kg/m)	0.974
h=level difference (mtr) =	19.40+79.39-78.85-19.40
	h (mtr)= 0.54
	$L1 = L/2 - T1 \times h / L \times W$
	L1= 65.12

Null point has shifted negative side from 108 Mtr span, due to unequal tower height, so L1 will be consider as max span length

$$L1 \text{ (mtr)} = 65.12$$

$$S1 \text{ Sag from loc. No. AP-1} = w \times L1 \times L1 / 2T$$

$$S1 = 1.67$$

$$L2 \text{ (mtr)} = 68.00$$

$$\text{Sag } S2 \text{ from loc. 1 at NH-08} = w \times L2 \times L2 / 2T$$

$$S2 = 1.83$$

Slant

$$C2 \text{ (mtr)} = (L2 \times h) / L = 0.26$$

$$\text{Hence clearance at NH-48} = 19.40 - (81.79 - 78.85) - S2 + C2 =$$

$$13.876$$

Practically clearance on Nationa highway road will be less than above but always above 11.60 mtr

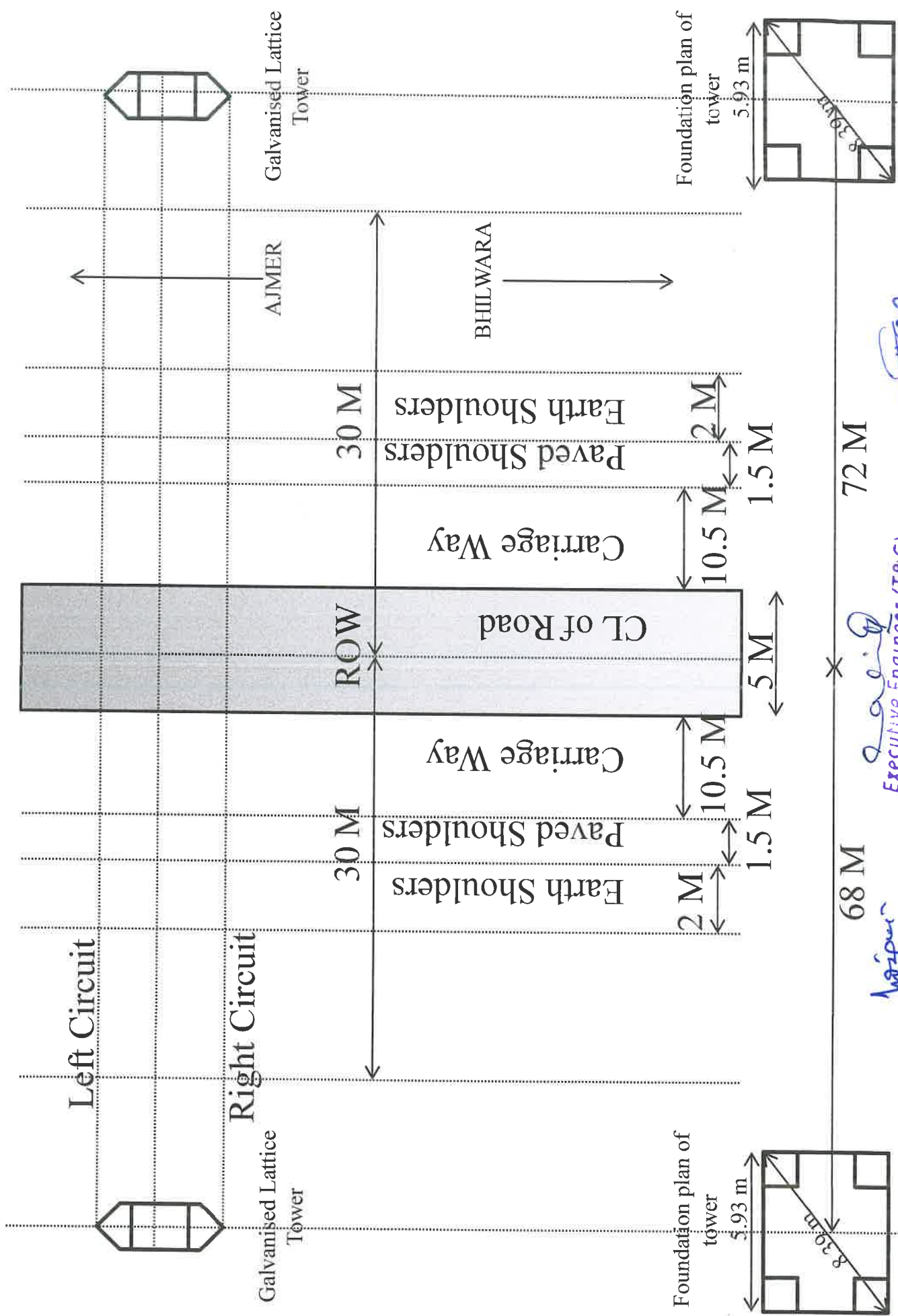
Assistant Engineer (T&C)  
RRVNL, Beawar

Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

SE (T&C)  
RVPN, AJMER



# Plan (Top View) of NH-48 Crossing at Ch. nage no. 313-314



Loc. No.-70

220 KV NB D/C TTD+3

Assistant Engineer (T&C)  
RRVNL, Beawar

Signature

Executive Engineer (T&C)  
R.R.V.P.N.Ltd., AJMER

68 M

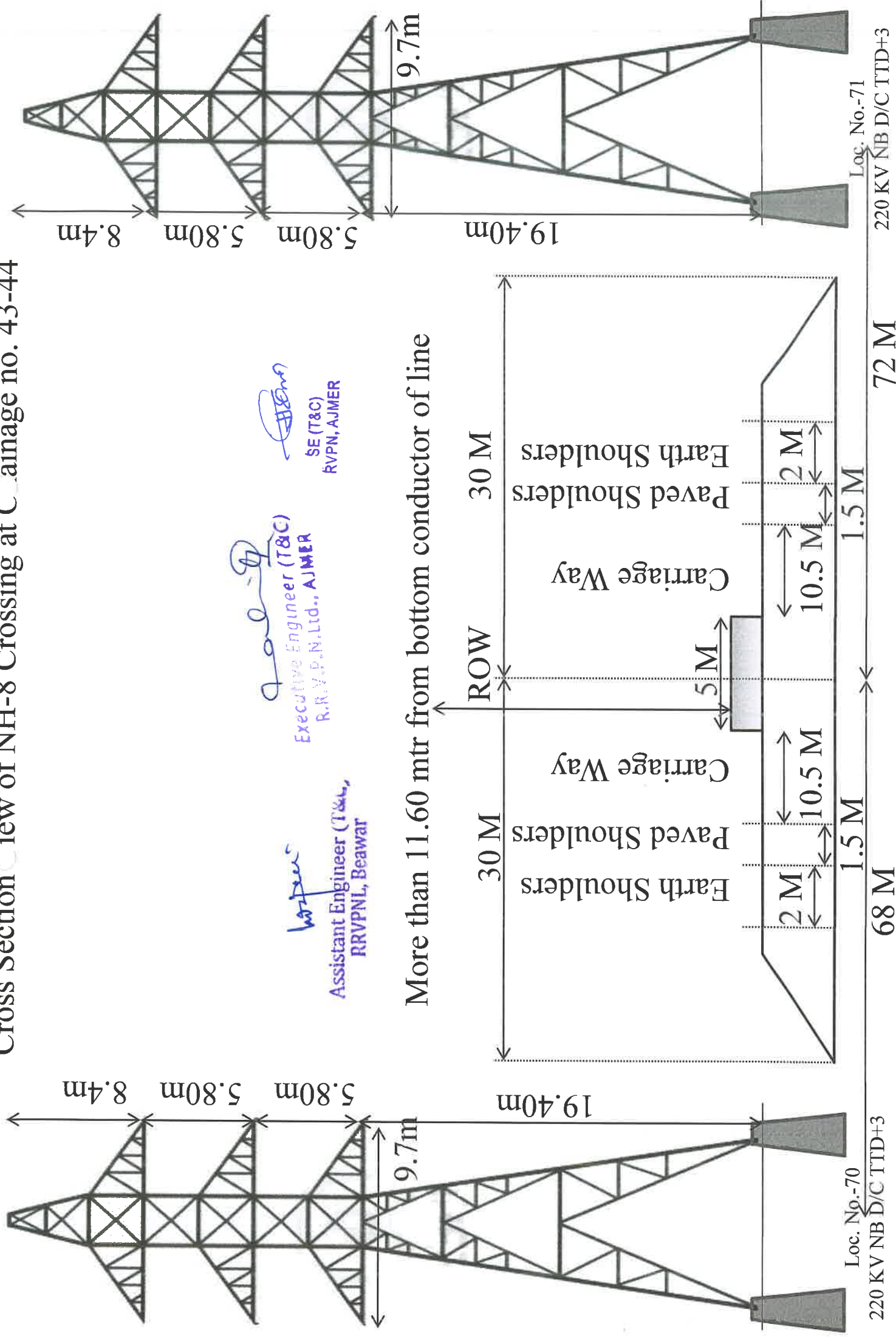
72 M

Signature  
SE (T&C)  
RVPN, AJMER

Loc. No.-71

220 KV NB D/C TTD+3

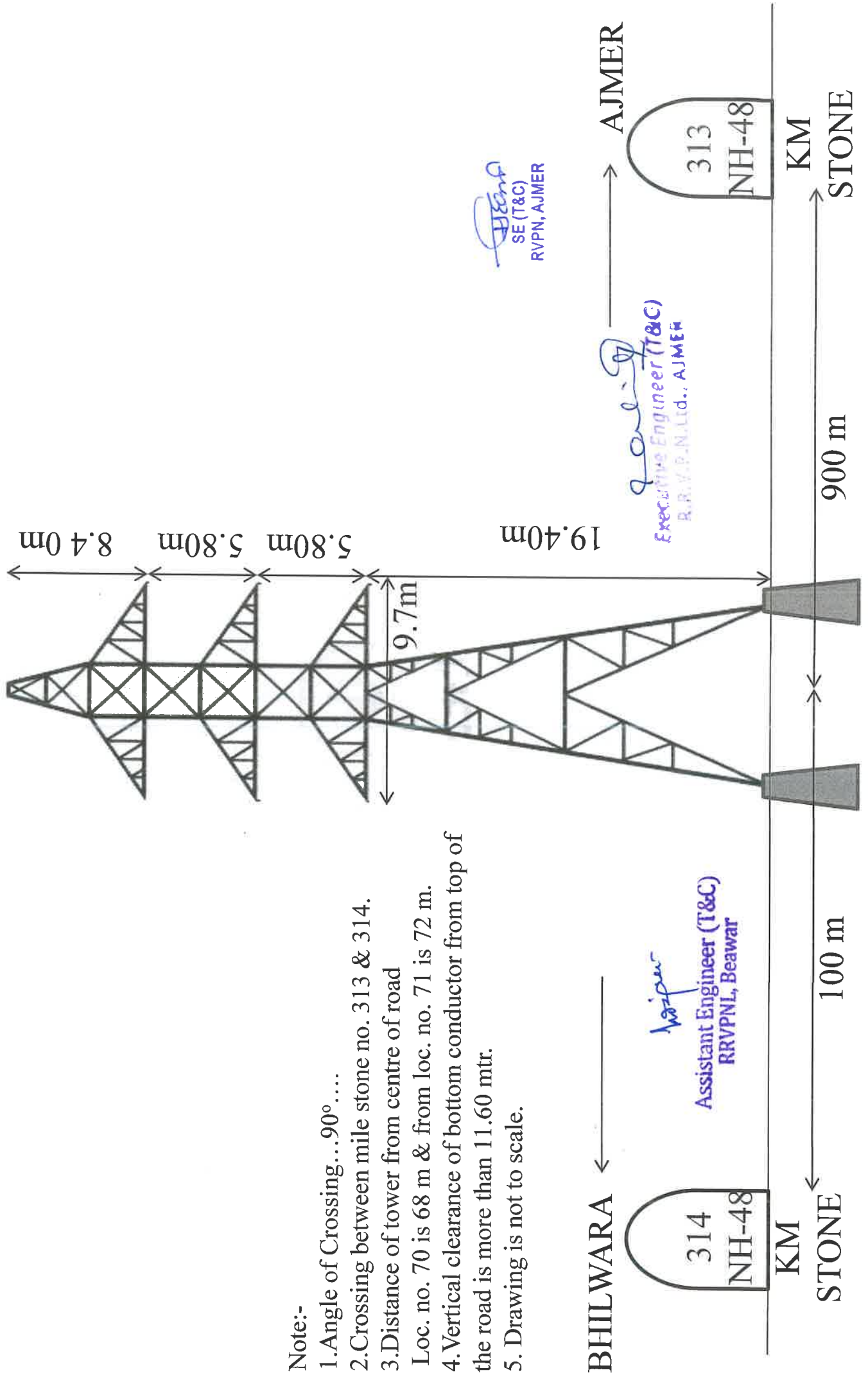
## Cross Section View of NH-8 Crossing at Cairage no. 43-44



# L Section View of NH-48 Crossing at Chainage no. 313-314

Note:-

- 1.Angle of Crossing...90°....
- 2.Crossing between mile stone no. 313 & 314.
- 3.Distance of tower from centre of road
- Loc. no. 70 is 68 m & from loc. no. 71 is 72 m.
- 4.Vertical clearance of bottom conductor from top of the road is more than 11.60 mtr.
5. Drawing is not to scale.



## CALCULATION OF PERFORMANCE BANK GUARANTEE

(As per Clause 6 Ministry vide circular no. RE/NH-33044/29/2015/S&(R) dated 22.11.2016)

“Performance Bank Guarantee =

1. Rs. 50 per m for utility services to be provided in the ducts already provided.
2. Rs 100 per m for  $\leq 300$  mm dia/width
3. Rs. 250 per m for  $> 300$  mm dia/width but  $\leq 1000$  mm
4. Rs. 500 per m for  $> 1000$  mm
5. Rs 100 per sq m for utility services such as tower etc.

### Calculation of PBG Amount

S.N.	Particulars	Route meter in NHAI ROW	Distance between outer conductor at the tower of transmission line	<u>Total Area</u>
(A)	Route area utilized by RVPN	60	27 m	1620 Sq. Mtr

S.N.	Particulars	Rate (Rs. 100/sq m as per guidelines)	Route area Utilized by RVPN	<u>Total Amount</u>
(B)	Amount of PBG	100	1620	162000/-

  
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