

# 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



 $No: NHAI/18013/1/2021-ROJ/Permission-OH\ Crossing-400KV/PGCIL/206/NH-48,\ km\ 138.75\ \&\ 138.76/3334\ Date: 03.03.2023$ 

## **INVITATION OF PUBLIC COMMENTS**

Sub.: Proposal for grant of approval of overhead crossing at Km. 138+750 & 138+760 on Delhi to Jaipur road section of NH-48 for Transmission line Package TW04 for Sikar to Neemrana 400 KV D/C Transmission line under Transmission Scheme for evacuation of power from Solar Energy Zones in Rajasthan (8.1 GQ) under Phase-II-Part-C through Tariff Based Competitive (TBCB) Route by PGCIL - reg.

Ref.: 1. Manager, Powergrid sikar Transmission Ltd. Letter no. PG/NR1/SNTL/302 dated 01.10.2021, letter no. 08 dated 14.07.2022 and letter no. 10 dated 05.08.2022.

2. PD, PIU-Jaipur letter no. NHAI/JPR/Powergrid/138+750-76/Crossing/2022/3149 dated 24.01.2023.

Sir,

It is to inform all concern that Powergrid sikar Transmission Ltd., Neemrana (Alwar) vide letter under reference (1) above has submitted a proposal for the subjected work and PD, NHAI, PIU, Jaipur has submitted the above proposal vide letter under reference (2) for approval of the Competent Authority, Highway Administration.

- 2. The proposal is regarding grant of approval of overhead crossing at Km. 138+750 & 138+760 on Delhi to Jaipur road section of NH-48 for Transmission line Package TW04 for Sikar to Neemrana 400 KV D/C Transmission line under Transmission Scheme for evacuation of power from Solar Energy Zones in Rajasthan (8.1 GQ) under Phase-II-Part-C through Tariff Based Competitive (TBCB) Route by PGCIL.
- 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 OH Crossing of 400 KV D/C transmission line on the subjected stretch. The objections/comments may be addressed to the below mentioned address **upto 03.04.2023**, 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

Yours faithfully,

(Manoj Khoda) Manager (Tech.)

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-Jaipur: for information.

(iv) Manager, Powergrid sikar Transmission Ltd., Neemrana (Alwar): for information

प्रधान कार्यालय : जी—5 एवं 6, सेक्टर—10, द्वारका, नई दिल्ली—110075, दूरभाष: 011-25074100, 25074200 फैक्स: 011-25093507/25093514 वेब: www.nhai.gov.in Corporate Office: G-5 & 6, Sector-10, Dwarka, New Delhi – 110075, Tele.: 011-25074100, 25074200 Fax: 011-25093507/25093514 Web.: www.nhai.gov.in



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सडक परिवहने और राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

(Ministry of Road Transport & Highways, Government Of India) परियोजना कार्यान्वयन इकाई, जयपुर/ Project Implementation Unit, Jaipur

डी-148, आर. एस.ई.बी. सब-स्टेशन के पीछे, वैशाली नगर, जयपुर-302021 D-148, Behind RSEB Sub-Satation, Vaishali Nagar, Jaipur-302021 दूरभाष / Phone : 91-141 - 4026465, ई-मेल /E-mail : jai@nhai.org H V V HI

(2)/

Date

No. NHAI/JPR/NOC/Powergrid/138+750-760/crossing/2022/3149

Highway Administrator cum Regional Officer National Highways Authority of India Regional Office, F-120, Janpath, Shyam Nagar, Jaipur-302019

\* (52.25 \* ) \* 23 \* 25 11 23 \* ad crossing proposal at km 1384'

Sub.: Approval of NH-08 (Delhi-to jaipur)Overhead crossing proposal at km. 138+750 & 138+760 for transmission line package Tw04 for Sikar-2-Neemrana 400 KV D/C Transmission Line under Transmission scheme for evacuation of power from solar energy zones in Rajasthan (8.1 GW) under phase-II-part C through tariff based competitive (TBCB) route -reg.

Ref: 1. Manager, Powergrid sikar Transmission Ltd. Letter no. PG/NR1/SNTL/302 dated 01.10.2021

2. This office letter no. 1695 dated 16.11.2021

- 3. IE M/s CEG Ltd.-ICT Pvt. Ltd. & JV In Association with Sugam Technocrats Pvt. Ltd. Jaipur letter no. 95 dated 17.03.2022
- 4. This office letter no 107 dated 07.04.2022
- 5. M/s Powergrid sikar Transmission Ltd. Letter no.08 dated 14.07.2022
- 6. M/s Powergrid sikar Transmission Ltd. Letter no.10 dated 05.08.2022
- 7. This office letter no. 1531 dated 15.09.2022
- 8. IE M/s L.N. Malviya Infra Projects Pvt. Ltd. letter no. 224 dated 03.12.2022

Sir

Please refer Manager Powergrid sikar Transmission Ltd. above referred letter dated 01.10.2021 regarding approval of NH-08 (Delhi-to jaipur)Overhead crossing proposal at km. 138+750 & 138+760 for transmission line package Tw04 for Sikar-2-Neemrana 400 KV D/C Transmission Line under Transmission scheme for evacuation of power from solar energy zones in Rajasthan (8.1 GW) under phase-II-part C through tariff based competitive (TBCB) route at km. 138+750-138+760 on NH-08.

- 2. The said proposal has been examined by Independent Engineer of the Project Gurgaon-Kotputli-Jaipur section of NH-8, M/s CEG Ltd. In JV. IE vide their letter dated 17.03.2022 has submitted their comments and recommendation to the office. While scrutiny of the said proposal some clarification/documents has been sought from the applicant. Applicant vide above referred letter dated 14.07.2022 & 05.08.2022 has submitted the compliance on the said proposal. Further, the same has been forwarded to IE of the project highway vide this office letter dated 15.09.2022 to examination and comments.
- 3. The said proposal has been examined by Independent Engineer of project M/s L.N. Malviya Infra Projects Pvt. Ltd. dated 03.12.2022 has submitted the comments as under
  - 1) M/s Powergrid has been submitted a proposal vide their letter on 01.10.2021 for Approval of NH-08 (Delhi to Jaipur) Overhead crossing proposal at Km. 138.750 & 138.760 for transmission line package TW04 for Sikar-2-Neemrana 400 KV D/C Transmission Line under Transmission scheme for evacuation of power from solar energy zones in Rajasthan (8.1 GW) under phase-II-part C through tariff based competitive (TBCB) route.
  - 2) This said proposal has been examined by the previous IE (Consulting Engineers Group Ltd. International Consultants & Technocrats Pvt. Ltd. (JV) in association with Sugam Technocrats Pvt. Ltd.) and submitted their comments and recommendation to NHAI, PIU-Jaipur office on 17.03.2022. Furthermore, NHAI, PIU-Jaipur asked some clarification/documents from the applicant. Then the

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मुख्यालयः जी-५ एवं ६, सेक्टर-१०, द्वारका, नई दिल्ली - ११००७५ 🗆

Web: www.nhai.org

Corporate Office: G-5 & 6, Sector-10, Dwarka, New Delhi-110075:

Applicant has been submitted the compliance vide their letter dated 14.07.2022 & 05.08.2022. The compliance a tabulated as under:

Sl. No.	Observations by NHAI, PIU-Jaipur	Compliances by Powergrid	
An undertaking on Rs. 50/- non judicial stamp duly stating that "within 07 days of receipt of notice PGCIL, will submit any kind of additional license deed amount as when as it was demanded by NHAI/MORTH".		Submitted by letter no. PG/NR1/TBCB/SK-II- NEEMARANA/10 dated 05.08.2022.	
2	Proof of online submission of proposal.	Submitted	
3	In lieu of NHAI policy circular number 7.5.3/2020, dated 3 <sup>rd</sup> November 2020, it is requested to submit Proof of one-time processing fee of Rs. 5,00,000/-directly in Bharatkosh account.	Submitted by letter no. PG/NR/TBCB/SK-II- NEEMARANA/08 dated 14.07.2022.	
4	Undertaking on Rs. 50/- non judicial stamp as mentioned in MORTH Checklist para no. 10.7 & 10.8	Submitted by letter no. PG/NR1/TBCB/SK-II- NEEMARANA/10 dated 05.08.2022.	
5	Checklist as per Ministry's Guideline Issued videno. RW/NH-33044/29/2015/ S&R(R) dated 22.11.2016.	Submitted by letter no. PG/NR1/TBCB/SK-II- NEEMARANA/10 dated 05.08.2022.	

All the compliances submitted by the applicant has been reviewed by the IE andrecommended may be granted for approval of overhead crossing proposal at Km. 138.750 & 138.760 of NH 8 for transmission line package TW04 for Sikar-2-Neemrana 400 KV D/C Transmission Line under Transmission scheme for evacuation of power from solar energy zones in Rajasthan (8.1 GW) under phase-II-part C through tariff based competitive (TBCB) route".

- 4. The proposal has been examined by technical section of PIU and found that applicant M/s PGCIL has submitted one time processing of Rs. 5.0 Lakh in the Bharat Kosh. The license fees and Bank Guarantee has not been obtained from M/s PGCIL.
- 5. Duly signed checklist & documents is enclosed with the proposal and recommended to grant permission for Overhead crossing proposal at km. 138+750 & 138+760 for transmission line package Tw04 for Sikar-2-Neemrana 400 KV D/C Transmission Line under Transmission scheme for evacuation of power from solar energy zones in Rajasthan (8.1 GW) under phase-II-part C through tariff based competitive (TBCB) route on NH-08.

The proposal is forwarded for approval please.

Encl.: As above

Yours faithfully,

(Ajay Arya)

Project Director

## CHECK LIST

# **General Information**

1. Name and Address of the Applicant / Agency : POWERGRID SIKAR TRANSMISSION

LIMITED

400/220KV Sub-Station, Bhadadhar, Post-Khuri Badi, 13th Mile Stone, Sikar-Bikaner Highway,

Rajasthan, Pin-332315

2. National Highway Number : NH 8

3. State : Rajasthan

4. Location : Delhi to Jaipur

5. Chainage in KM : 138+750 & 138+760

6. Length in Meter : 245.70 Mtr.

7. Width of available ROW in both side : 46 Meter (23 Meter X 2)

8. Side of NH : Across the National Highway

(Left or Right side of NH towards increasing chainage /Km direction)

9. Name of Highway Authority of NHAI/PWD/BRO : NHAI

10. Highway Administration address : National Highway Authority of India

gineers

Project Implementation Unit-Gurugram Plot No. 20, Sector-32, Institutional

Area, Gurugram

सत्येन्त्र शर्मा/Satyendra Sharma प्रबंधक / Manager पावरग्रिड सीकर ट्रांसमिशन लिमिटेड/
POWERGRID SIKAR TRANSMISSION LIMITED 100 % Subsidiary of POWERGRID नीमराना/NEEMRANA

DD NHAI/I

PD NHAI/EE NH Division

# **CERTIFICATE**

- 1. Undersigned has examined the proposal of the applicant for laying of 400 kV D/C SIKAR-II NEEMRANA (TWIN HTLS) transmission line and confirm that the all standard conditions issued vide Ministry Circular No. RW/NH-33044/29/2015/S&(R) dated 22.11.2016 & and the subsequent amendments has been followed.
- 2. It is certified that any other location 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 carriageway, easing of curve etc.
- 3. I will ensure supervision of the work of laying of utility and ensure that the defects in road portion after laying of utility are corrected.
- 4. I will notify/forfeit 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 is enclosed with the proposal.



[Name Designation and Signature of concerned field authority of NHAI/PWD/BRO]

# Annexure- 'A' Detail of Tower Crossing across National Highway

1	(a) Name of the Company asking for permission	POWERGRID SIKAR TRANSMISSION LIMITED
	(b) Full Address	Sikar 400/220KV Sub-Station, Bhadadhar, Post- Khuri Badi, 13th Mile Stone, Sikar- Bikaner Highway, Rajasthan, Pin- 332315
	(c) Telephone & Fax No.	
	(d) Details & Purpose:	Line Name:- 400 kV D/C Sikar-II - Neemrana (Twin HTLS) Transmission Overhead NH 8 Crossing
	(e) Any other details regarding	
	1. Distance of proposed site from the centre of the road (Location of Tower from centre line of the NH)	126.389 Meter (87/0) & 119.311 Meter (88/0)
	2. Whether it is possible to lay the Proposed line through existing line or not	Overhead Crossing
2	Details regarding road alignment where Tower is to be laid (at the location of crossing)	At 138+750 to 138+760 KM
	a. Name of Road	National Highway - 8
	b. Category of Road (to be ascertained from KM stone on road side)	National Highway
	c. Width of the road	47.8 Meter
	1. Formation width measurement from earthen bank	47.8 Meter
	2. Black topped carriageway width	47.8 Meter
	3. Road Boundary width	56.082 Meter
	4. Location of the crossing on the Road [to be mentioned with km]	At 138+750 to 138+760 KM
3	Details to be supplied on layout drawing.	Attached 3 copies of drawing
4	Geographics of the tower line route	87/0:-27°51'17.75",76°15'42.64"
Ces		88/0:-27°51'14.91",76°15'51.04"
	1. Dimension of the tower	Transmission Tower of 400kV DD60+9 Type Tower- Drawing enclosed.
	2. Dimension of the protection pipe.	N/A
	3. Diameter of the tower	Transmission Tower of 400kV DD60+0 Type Tower- Drawing enclosed.
5	This is to certify that no. Govt land shall be occupied by Powergrid Corporation of India Limited	YES
	2. This is to certify that the work shall be done in accordance with the Govt. rules and regulations in force from time to time and binding to Powergrid Corporation of India Limited.	54.4
	3. This is to certify that all required cost & fees as per rules and regulation of the Govt. will be deposited timely.	YES

Date:

Place:

For and on behalf of:

POWERGRID SIKAR TRANSMISSION LIMITED

सत्येन्त्र शर्मी/Salyendra Sharma प्रवचक / Manager पावरग्रिङ सीकर ट्रांसमिशन लिमिटेड/ POWERGRID SIKAR TRANSMISSION LIMITED 100 % Subsidiary of POWERGRID नीमराना/NEEMRANA

# Annexure- 'B'

# Information to be furnished along with the proposal for erection of tower across/ along the National Highway / Expressway.

1	Exact Location of crossing with chainage of the National Highway and Right of Way of NH at crossing point.	At 138+750 to 138+760KM, Right of Way of NH at crossing Point= 66.0 Meter	
2	Table Showing distance of Tower & ROW From center of line of Highway	Ground Profile drawing is enclosed.	
3	Methodology of crossing in NH	Overhead Crossing through Transmission Towers.	
4	Crossing details:	As per attached Ground Profile Drawing	
5	Route Index plan across the Highway showing the following:	As per attached Ground Profile Drawing	
	(a) Existing ROW of NHAI/ NH land.	As per attached Ground Frome Drawing	
	(b) Tower Position		
6	Undertaking that you shall take care of existing service lines that have been laid previously.	Yes, existing services will be taken care by us.	

Date:

Place:

For,

POWERGRID SIKAR TRANSMISSION LIMITED

सत्येन्द्रे अमि Salyendra Sharma प्रबंधक / Manager पावरग्रिङ सीकर ट्रांसिमशन लिमिटेड/ POWERGIN SIKAR TRANSMISSION BINTED 100 % Subsidiary of POWERGRID नीमराना/NEEMRANA

# **Clearance Calculation Chart** Between AP-87/0 to AP-88/0 at 193°C

NH-08 crossing between Delhi -Jaipur Section for 400kV D/C Sikar-II - Neemrana Transmission line.

: 324.96 M RL of Location No 87/0 RL of Location No 88/0 : 324.59 M **RL of NH-08 Surface Center** : 327.00 M

Bottom cross arm RL of Location no 87/0 : (32.89+324.96) =357.85 M Bottom cross arm RL of Location no 88/0 : (23.89+324.59) =348.48 M

Tension (T) at 193°C for 245.7 Mtr. Span Length: 1181 KG Crossing Span (L) : 245.70 M Conductor Weight (W) for ACSS : 1.922 KG

Height Difference of Bottom cross arm

Between Location no 87/0 and 88/0 (H) : (357.85-348.48)= 9.37 M

**Null Point**  $: L/2 \pm (T^*H)/(W^*L)$ 

 $= 245.70/2 \pm (1181*9.37)/(1.922*245.70)$ 

 $= 122.85 \pm 23.43$ 

= (122.85+23.43)=146M&(122.85-23.43))=99 M

Maxi Mum Sag at Null Point : WL2/2 T

 $=(1.922*99^2)/(2*1181)$ 

= 7.97 M

Distance between center of NH-08crossing point and Maximum Sag Point

: 234-245.7=11.7M

Sag difference between Maximum Sag point and Center on NH-08Crossing point

: WL<sup>2</sup>/2 T

 $=(1.922*146^2)/(2*1181)$ 

= 17.34 M

Average Sag at Center of NH-08 crossing point : (7.97+17.34)/2 = 12.65 M

RL of NH-08 crossing point Sag Level : 357.85-12.65=345.2 M

Clearance between Bottom Conductor to NH-08: (RL of NH Crossing Sag point- RL of NH surface)

= 345.2 - 327

= 18.2 M

For-KEC International Ltd.

सत्येन्द्र शर्मा/Satyendra Sharma प्रवधक / Manager

पावरग्रिड सीकर ट्रांसिमशन लिमिटेड। POWERGRID SIKAR TRANSMISSION LIMITED

100 % Subsidiary of POWERGRID

नीमराना/NEEMRANA

### CHECK-LIST

Guideline for Project Directors for Processing the proposal for laying of crossing power cable in the land along and across National Highways vested with NH.

# Check list for getting approval for laying of crossing power cable on NH land (To be filled by POWERGRID SIKAR TRANSMISSION LIMITED)

The permission for laying of crossing power cable shall be considered for approval/ rejection based on the Ministry Circulars mentioned as above,

- (a) Carring of crossing power cables on highway bridges shall not be permitted as Furme/ Crossing pipes can accelerate the process of corrosion or may cause explosions, thus, being much more injurious than leakage of water.
- (b) Service are not being allowed indiscriminately on the parapet/ any part of the bridge, safety of the bridges has to be kept in view while permitting various services alone bridge.

Sr. No.	Item	Information/ Status	Remarks
1	General Information		400kV D/C Overhead Powerline crossing at NH-8 Chainage 138+750 & 138+760KM
1.1	Name and Address of the Applicant/ Agency		Sikar New Transmission Limited, Sikar 400/220KV Sub-Station, Bhadadhar, Post- Khuri Badi, 13th Mile Stone, Sikar- Bikaner Highway, Rajasthan, Pin- 332315
1.2	National Highway Number		NH-8
1.3	State		Rajasthan
1.4	Location		27°51'16.26"N, 76°15'47.00"E
1.5	Chainage in km		At 138+750 & 138+760KM
1.6	Length in Meters		Overhead Crossing only
1.7	Width of available ROW		46 M
	(a) Left side from center line towards increasing Chainage/ km direction		23.0 M
	(b) Right side from center line towards increasing Chainage/ km direction		23.0 M
1.8	Proposal of crossing Power Line		
Į.	(a) Left side from center line towards increasing Chainage/ km direction		Overhead Crossing Left Side Tower Distance from center line is 119.311 M (Enclosed Drawing No.PGCIL/400 KV DC SIKARII-NEEMRANA/NH-8)
v	(b) Right side from center line towards increasing Chainage/ km direction		Overhead Crossing Right Side Tower Distance from center line is 126.389 M (Enclosed Drawing No. PGCIL/400 KV DC SIKARII-NEEMRANA/NH-8)
1.9	Proposal of acquire	V.	NA.
	(a) Left side from center line		NA
	(b) Right side from center line		NA

For-KEC International Ltd.

Manoj Sharma Project Manager सत्येन्द्र शर्मा/Satyendra Sharma प्रवधक / Manager पावरग्रिङ सीकर ट्रांसमिशन लिमिटेड/ POWERGRID SIKAR TRANSMISSION LIMITED 100 % Subsidiary of POWERGRID नीमराना/NEEMRANA

Sr. No.	Item	Information/ Status	Remarks
1.1	Whether proposal is in the same		NA
	side where land is not be acquired		
	If not then where to lay the cable		NA
1.11	Details of already laid services, if		NA
	any, along the proposed route		
1.12	Number of exsiting lanes (2/4/6/8		4
	lanes)		
1.13	Proposed number of Lanes(2 lane		
	with paved shoulders/4/6/8 lanes)		
1.14	Service road existing or not		Existing
	If yes, then which side		Both
	(a) Left side from center line		9.690M
	(b) Right side from center line		13.734M
1.15	Proposed service road		
	(a) Left side from center line		NA
	(b) Right side from center line		NA
1.16	Whether proposal to lay crossing power cable is after the service road or between the service road and main carriageway		Overhead crossing proposed tower beyond NH ROW
1.17	Whether carrying of crossing power cable has been proposed on highway bridge. If yes, then mention the methodology proposed for the same		NA
1.18	If crossing of the road involved, if yes, it shall be eithereneased in pipes or through structure or conduits specially built for that purpose at the expenses of the agency owning the line		NA (Over Head Transmission line Crossing)
	(a) Whether existing drainage structure are allowed to carry sewage/ gas power cable	Yes/No	NA
	(b) Is it on a line normal to NH	Yes/No	Across & Along NH
	(c) What is the distance of the crossing the sewage/ gas power cables from the existing structures? Crossing shall not be too near the existing structures on the national highway, the minimum distance being 15 meter		NA
	(d) The casing pipe(or conduit pipe in the case of electric cable) carring the utility line shall be of steel, cast iron, or reinforced cement concrete and permit ready withdrawal of the carrier pipe/ cable. Mention type of casting.	Engineers	NA (Over Head Transmission line Crossing)

Manoj Sharma

सत्येन्द्र असूर्धिक्षेत्रके Sharma प्रवेशक / Manager पावरग्रिड सीकर ट्रांसिशन लिमिटेड/ POWERGRID SIKAR TRANSMISSION LIMITED 100 % Subsidiary of POWERGRID

Sr. No.	Item	Information/ Status	Remarks
	(e) Ends of the casing/ conduit pipe shall be sealed from the outside, so that it does not act as a drainage path	Yes/No	NA
	(f) The casing / conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope in the fills	Yes/No	NA
	(g) The top of the casing / conduit pipe should be at least 1.2 meter below the drain inverts. Mention the proposed details.		NA
	(h) Mention the methodology proposed for crossing of road for the proposed sewage/ gas power cable, crossing shall be by boring method (HDD) [Trench-less Technology], specially, where the existing road pavement is of cement concrete or dense bituminous concrete type		Over Head Transmission Line Crossing
	(i) The casing / conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the formation of a waterway along it.	Yes/No	NA
2	Documents/ Drawings to be enclosed with the proposal	Yes/No	Yes

Manoj Sharma Project Manager

सत्येन्द्र शर्मा/Salyendra Sharma प्रवधक / Manager पावरग्निङ सीकर ट्रांसमिशन लिमिटेड/ POWERGRID SIKAR TRANSMISSON - अपट 100 % Subsidiary of POWER AND नीमराना/NEEMRANA

Sr. No.	Item	Information/ Status	Remarks	
2.1	Cross section swoing the size of trench for open trenching method( Is it normal size of 1.2m deep*0.3m wide) (i) Should not be greater than 60 cm wider than the outer diameter of the pipe. (ii) Located as close to the extreme edge of the right-of -way as possible but not less than 1.5 meter for the center line of the nearest carriageways (iii) Should not be permitted to run along the National Highway when the road formation is situated in double cutting. Not shall these be laid over the existing culverts and bridges (iv) These should be so laid that there top is at least 0.6 meter below the ground level so as not to obstruct drainage of the road land.	Enclosed/ Not enclosed	NA NA	
2.2	Cross section swoing the size of pit and location of cable for HDD method		NA	
2.3	Strip plan/ Route plan showing crossing power cable, chainage, width of ROW, important mile stone, intersections, cross drainage works etc.	Enclosed/ Not enclosed	Enclosed (Mention in attached Drawing)	
2.4	Methodology for laying of crossing power cable		NA	
2.4.1	Open trenching method, (May be allowed in utility corridor only where pavement is neither cement concrete type. If yes, what is the methodology of refilling of trench)		NA	
	(i) The trench width should be at least 30 cm, but not more than 60 cm wider than the outer diameter of the pipe		NA	

Manoj Sharma Project Manager



सत्येन्द्र शुर्मा/Satyendra Sharma प्रवधक / Manager पावरग्रिड सीकर ट्रांसमिशन लिमिटेड/ POWERGRID SIKAR TRANSMISSION LIMITED 100 % Subsidiary of POWERGRID नीमराना/NEEMRANA

Sr. No.	Item	Information/ Status	Remarks
	(ii) For filling of the trench, bedding shall be to a depth of not less than 30 cm. It shall consist of granular material, free of lumps, clods and cobbles and to yield a firm surface without sudden in the bearing value. Unsuitable soul and rock edged should be excavated and replace by selected material		NA
	(iii) The backfill shall be completed in two stages(i)side-fill to the level of the top of the pipe and (ii) overfill to the bottom of the road crust.		NA
	(iv) The side-fill consist of granular material laid in 15 cm layers each consolidate by mechanical tempering 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 pending will not be permitted.		NA
	(v) The road crust shall be built to the same strength as the existing crust on either side of the trench. Care shall be taken to avoid the formation of adip at the trench		NA
	(vi) The excavation shall be protected by flagman, sign and barricades, and red lights during night hours		NA
	(vii) If required diversion shall be constructed at the expenses of the agency owning the utility line		NA
2.4.2	Horizontal direction drilling(HDD) Method	Yes/No	NA (Over Head Transmission line Crossing)
2.4.3	Methodology for laying of crossing power cable through CD works and method of laying. In cases where the carrying of crossing power cable on the bridge become inescapable		NA
3	Draft license Agreement signed by two witnesses	Enclosed/ Not enclosed	Enclosed

Mano Sharma Project Manager सत्येन्द्र शुमी/Satyendra Sharma प्रवधक / Manager पावरग्निड सीकर ट्रांसमिशन लिमिटेड/ POWERGRID SIKAR TRANSMISSION LIMITED 100 % Subsidiary of POWERGRID

Sr. No.	Item	Information/ Status	Remarks
4	Performance Bank Guarantee in	Whether obtained or	Will be submitted based on estimate letter being
	favour of NH division has to be	not	received from National Highway division
	obtained by Morth Norms of Rs.		
	2,00,000/- per crossing of NH, for		
	period of one year initially		
	(extendable if required till		
	satisfactory completion of work) as		
	a security of ensuring/ marking		
	good the excavated trench for laying		5 Sec. 25 (1)
	the crossing power cable / ducts by		Fig. 1944 - 17
	proper filling and compaction,		
	clearing debris/ loose earth		Programme in the contract of t
	produced due to execution of		
	trenching at least 50 m away from		
	the edge of the right of way. No		
	payment shall be payable by the NH		
	division to the license for clearing		La gradient
	debris/ loose earth. Performance		Pre State real
	BQ/FDR as per above is to be		Property in the Control of the Contr
	obtained.		F. J. C. P. St J. E. J.
	30090.400000000.000.000.000		
4.1	Confirmation of FDR has been	Yes/No	Will be submitted based on estimate letter being
	obtained or not as per NH division		received from National Highway division
	guidelines		
5	Affidavit Undertaking from the		
	applicant for the following is to be		
	furnished		
5.1	Not to damage to other existing	Enclosed/ Not	Enclosed
	utility, If damaged then to pay the	enclosed	
	losses either to NH division or the		
	concerned agency		
5.2	For Renewal of Bank	Enclosed/ Not	Enclosed
	Guarantees/FDR	enclosed	
5.3	For confirming all standard	Enclosed/ Not	Enclosed
7,18	condition of Ministry Circulars and	enclosed	Control Control of Control of
	NH Division's guideline		1 113.
5.4		Enclosed/ Not	Enclosed
	as and when required by NH	enclosed	
	division at their own cost		
5.5		Enclosed/ Not	Enclosed
5.5	due to 6 lanning / widening of NH	enclosed	21101000
	due to o lamming / wideling of 1411	On Olosed	
5.6	For indemnity against all damage	Enclosed/ Not	Enclosed
5.0	and claims	enclosed	Z. I. S.
5.7	For management of traffic	Enclosed/ Not	Enclosed
5.1			Lilotosou
	power cable to be managed by the	chelosed	
	applicant	1 . 10 . 10 1 1 1 1 1	450 4
5.0	A	Englosed/Net	England
5.8	If any claim is raised by the	Enclosed/ Not	Enclosed
	concessionaire then the same has to	enclosed neers	
	be paid by the applicant	18/ 18/1	सत्येन्द्र शुर्मा/Satyendra Sharma

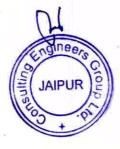
Manoj Sharma

पावराग्रेड सीकर गुर्भावाव्युक्त पावराग्रेड सीकर गुर्भावाव्युक्त POWERGRID SIKAR TRANSMISSION LIMITED 100 % Subsidiary of POWERGRID

Sr. No.	Item	Information/ Status	Remarks
5.9	Prior approval of the NH shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to be crossing power cable/ any other utility located in the National Highway right-of-ways	Enclosed/ Not enclosed	Enclosed
5.10	Expenditure, if any, incurred by NH division for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the crossing power cable be borne by the applicant agency owning the line	Enclosed/ Not enclosed	Enclosed
5.11	If the NH division considers it necessary in future to move the utility line for any work of improvement or repaires at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given	Enclosed/ Not enclosed	Enclosed
5.12	Certificate from the applicant in the following format  Laying of crossing power cable will not have any deleterious effects on way of the bridge components on roadway safety for traffic  ii. "We do undertaking that I/We will relocate service road/approach road utilities at my/ our own cost notwithstanding the permission granted within such time as will be stipulated by NH division for future six-lanning or any other development".		Enclosed
6	Who will sign the agreement on behalf of crossing power cable agency?		General Manager, Sikar New Transmission Limited
	Power of attorney to sign the agreement is available or not		Yes
7	The Project Director, will submit the following certificates		Undertaking signed & being submitted with proposal
7.1	Certificate for proposal for conforming of all standard condition issued vide Ministry of Road Transport Highways Circular no.	Enclosed/ Not enclosed	

For-KEC International Ltd.

Manoj Sharma
Project Manager



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सत्येन्द्र शर्मा/Satyendra Sharma प्रवधक / Manager पावरग्रिड सीकर ट्रांसिमशन लिमिटेड/ POWERGRID SIKAR TRANSMISSION LIMITED 100 % Subsidiary of POWERGRID नीमराना/NEEMRANA

Sr. No.	Item	Information/ Status	Remarks
7.2	Certificate from PD in the following	Enclosed/ Not	
	format i. "It	enclosed	
	is certified that any other location of		
	the crossing power cable would be	. 4	
	extremely difficult and		
	unreasonable costly and the		3 411
	installation of crossing power cable		
	within ROW will not adversely		
	affect the design, stability and		
	traffic safety of the highway nor the		
	likely future improvement such as		
	widening of the carriageway, easing		3 1 1
	of curve etc".		
	ii. For 6-lanning		
	(a) Where feasibility is available "I	1 7	
	do certify that there will be no		
	hindrance to proposed six-lanning		
	The second secon		
	based on the feasibility report		
	considering proposedstructures at	4.0	
	the said location".		, e
	(b) In case feasibility report is not		-   -   -   -   -   -
	available		
	"I do certify that sufficient ROW is		
	available at site for accommodating		
	proposed six-lanning		
8	If NH section proposed to be taken		NA (Over Head Transmission line Crossing)
•	up by NH division on BOT basis a		(Over richa Transmission inte crossing)
	clause is to be inserted in the		
	agreement. "The permitted highway		
	on which License has been granted		
	the right to lay crossing power cable		
	/ duct has also been granted as a		
	right of way to the concession		
	agreement for up-gradation of	1	
	section		
	from km to		
	kmof NH		
	Noon build, Operate and		
	transfer basis and therefore the		
	license shall honor the same		
	needse shari nonoi the same		
9	Who will supervise the work of		
	laying of crossing power cable		
	(a) On behalf of the applicant		General Manager Siker New Transmission Limite
			General Manager, Sikar New Transmission Limited
	(b) On behalf of NH division		

For-KEC International Ltd.

Manoj Starma
Project Manager



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सत्येन्त्र शुर्मा/Satyendra Sharma प्रवधक / Manager पावरग्रिड सीकर ट्रांसमिशन लिमिटेड/ POWERGRID SIKAR TRANS / S. WILLIMITED 100 % Subsidiary of FUNERGRID नीमराना/NEEMRANA

Sr. No.	Item	Information/ Status	Remarks
10	Who will ensure that the defects in road portion after laying of crossing power cable are corrected and if not corrected then what action will be taken		
	(a) On behalf of the applicant	-	General Manager, Sikar New Transmission Limited
	(b) On behalf of NH division		
11	Who will pay the claims for damages done/ disruption in working of concessionaire?		
	On behalf of the applicant		Sikar New Transmission Limited
12	A certificate from PD that he will enter the proposed permission in the register of the permission in the prescribed perform.	Enclosed/ Not enclosed	NA
13	If any previous approval is accorded for laying of underground crossing power cable then photocopy of records of permission accorded as maintained by PD then copy be enclosed	Enclosed/ Not enclosed	NA

Manaj Sharma Project Manager JAIPUR OLOGO

सत्येन्द्र शर्मा/Satyendra Sharma प्रवधक / Manager पावरग्रिड सीकर ट्रांसिमशन लिमिटेड/ POWERGRID SIKAR TRANSMISSION LIMITED 100 % Subsidiary of POWERGRID नीमराना/NEEMRANA

# Format for maintaining records of Right-of-Way permission granted for laying OFC

(to be maintained separately for every NH and State)

: Rajasthan : NHAI Division : NH-8 Name of the State

Name of Agency (NH) NH Number

Remarks	
Any deviation from MOST standard norms	
Date of last inspection of site	
Date of validity of agreement	
Date of signing of agreement	
Name of License and contact address	POWERGRID SIKAR TRANSMISSION LIMITED, Sikar 400/220KV Sub-Station, Bhadadhar, Post- Khuri Badi, 13th Mile Stone, Sikar- Bikaner Highway, Rajasthan, Pin- 332315
Kind of service	Over Head Transmission Line Crossing
Section and reach	Near Village Goontii
Left or Right side of NH(towards increasing chainage/ km direction)	Crossing
Location(chaina ge in km)	At 138+750 to 138+760KM
Sr No.	]-
	Left or Right side of Section and Kind of Name of License and Increasing chainage/ reach service contact address km direction)  Left or Right side of Section and Kind of Contact address agreement agreement agreement agreement agreement agreement and sign of From MOST agreement agreement agreement agreement agreement and side of License and Side

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Makej Sharma Project Manager For-KEC International Ltd.