



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

(Ministry of Road Transport and 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/NCRTC/135/NH-48, km 56-57/10 Date: 01.04.2022

INVITATION OF PUBLIC COMMENTS

Sub.: Proposal for grant of NH clearance for the diversion/modification work of 400KV D/C Manesar-Neemrana Transmission line due to infringement with Delhi-Gurgaon-Rewari SNB (Alwar), Regional Rapid Transit System (RRTS) Alignment of M/s. NCRTC by M/s. Power Grid Corporation Ltd. (PGCIL) - Approval of crossing of NH-08 - reg.

Ref.: 1. Chief Manager (TML) M/s. PGCIL, Bhiwadi letter no. 1012 dt. 22.01.2022 and DGM (AM), PGCL letter dated 30.03.2022.
2. PD, PIU-Jaipur letter no. NHAI/JPR/NOC/56+650/overhead crossing/2022/2587 dated 31.03.2022.

Sir,

It is to inform all concern that Chief Manager (TML) M/s. PGCIL, Bhiwadi vide letter under reference (1) 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 permission for NH overhead crossing of NH-48 grant of NH clearance for the diversion/modification work of 400KV D/C Manesar-Neemrana Transmission line due to infringement with Delhi-Gurgaon-Rewari SNB (Alwar), Regional Rapid Transit System (RRTS) Alignment of M/s. NCRTC by M/s. Power Grid Corporation Ltd. (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 overhead crossing of 400 KV D/C by M/s. PGCIL on the subjected stretch. The objections/comments may be addressed to the below mentioned address upto 01.05.2022, 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).

Yours faithfully,

(K R Chouhan)

Dy. General Manager (T)

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) Chief Manager M/s. PGCL, Bhiwadi.: for information.



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

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

परियोजना कार्यान्वयन इकाई, जयपुर/ Project Implementation Unit, Jaipur

डी-148, आर. एस.ई.बी. सब-स्टेशन के पीछे, वैशाली नगर, जयपुर-302021

D-148, Behind RSEB Sub-Station, Vaishali Nagar, Jaipur-302021

दूरभाष / Phone : 91-141 - 4026465, ई-मेल / E-mail : jai@nhai.org



②

No. NHAI/JPR/NOC/56+650/overhead crossing/2022/ 2587

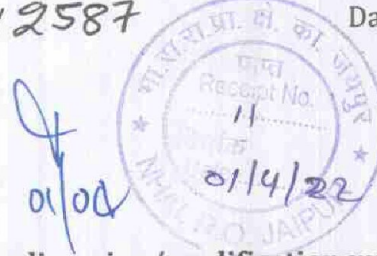
Date: 31.03.2022

Highway Administrator cum Regional Officer

National Highways Authority of India

Regional Office, F-120, Janpath,

Shyam Nagar, Jaipur-302019



Mg8 (T)
NM

Sub. : National Highway Clearance proposal for the diversion/modification work of 400 KV D/C Manesar-Neemrana transmission line due to infringement with Delhi-Gurgaon-Rewari-SNB (Alwar), Regional Rapid Transit System (RRTS) Alignment of M/s NCRTC : Approval for crossing of NH-08-reg.

- Ref:**
1. Chief Manager (TLM), Power Grid Corporation of India Ltd. Bhiwadi letter no. 1012 dated 22.01.2022
 2. This office letter no. 2198 dated 14.02.2022
 3. M/s CEG Ltd. letter no. 93 dated 16.03.2022
 4. This office letter no. 2505 dated 22.03.2022
 5. DGM, TL Bhiwadi, M/s Power Grid corporation of India Ltd. letter n. 1047 dated 23.03.2022
 6. This office letter no. 2542 dated 24.03.2022
 7. IE M/s. Consulting Engineers Group Ltd - Intercontinental Consultants & Technocrats Pvt.Ltd (JV) in association with Sugam Technocrats Pvt. Ltd. letter no. 109 dated 25.03.2022
 8. This office letter no. 2556 dated 28.03.2022
 9. DGM (AM), Powergrid Corporation of India Ltd. letter noNR1/AM/Div./NCRTC/NHAI/2022 dated 30.03.2022

Sir,

This has reference to Chief Manager (TLM), Power Grid Corporation of India Ltd. Bhiwadi letter dated 22.01.2022 regarding National Highway Clearance proposal for the diversion/modification work of 400 KV D/C Manesar-Neemrana transmission line due to infringement with Delhi-Gurgaon-Rewari-SNB (Alwar), Regional Rapid Transit System (RRTS) Alignment of M/s NCRTC Approval for crossing of NH-08 under Gurgaon-Kotputli-Jaipur section.

2. The said proposal has been examined in consultation with IE of the project highway. IE vide above referred letter dated 25.03.2022 has recommended to provide permission in the said proposal. Further this office vide above referred letter dated 22.03.2022 has raised some query. M/s PGCIL vide letter dated 23.03.2022 has submitted the compliance report alongwith an undertaking on duly stating that " within 7 days of receipt of notice it will submit any kind of license deed amount as and when it is demanded by NHAI/MoRTH". Further, in lieu of license deed amount PGCIL has submitted a NHAI Policy guideline dated 03.09.2020 wherein one time processing fee of Rs. 5.00 lakh was decided to be charged on PGCIL cases. Accordingly on request of this office PGCIL vide letter dated 30.03.2022 has submitted a one time license fee of Rs. 5,00,000/- in Bharat Kosh vide transaction receipt no. 3003220012061 dated 30.03.2022. In the current case M/s PGCIL has erected the towers outside the ROW and want to increase the height of existing lines. The matter of such permission was discussed in RO, Jaipur office and it was desired to submit on top priority basis.

5. In view of the above, the said proposal is seems to be found in order as per the prevailing site conditions. Duly signed checklist & drawings by undersigned is enclosed with the proposal and recommended to grant permission for overhead crossing of PGCIL

The proposal is forwarded for approval please.

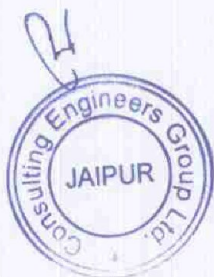
Encl: As above




Project Director
NHAI PIU Jaipur


CHECK LISTGeneral Information

1. Name and Address of the Applicant /Agency : POWERGRID CORPORATION OF INDIA LIMITED, 4th KM Milestone, Alwar By Pass, Post-Khijuriwas, Bhiwadi, Dist – Alwar, Rajasthan, PIN - 301018
2. National Highway No. : NH- 8
3. State : Haryana
4. Location : Delhi – Jaipur Highway
5. Chainage in Km : Between 56 to 57
6. Length in m : 186.72 M
7. Width of available ROW in both side : 32 M
8. Side of NH : Overhead crossing of 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 : Project Director
National Highway Authority of India
Project Implementation Unit.....



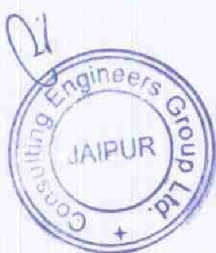
PD NHAI/EE NH Division


 21/01/22
 मेघराज मीना / Meghraj Meena
 मुख्य प्रबन्धक (टीएमएन)/ Chief Manager (TLM)
 पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड
 Power Grid Corporation of India Limited
 उ.शे.-1/NR-1
 भिवाड़ी (राज.)/ Bhiwadi (Raj.)


 21/01/22
 B. S. Thakur

CERTIFICATE

1. Undersigned has examined the proposal of the applicant for laying of 400 K.V. D/c Manesar - Neemrana 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]

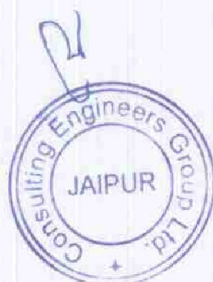
Annexure- 'A'


Detail of Tower Crossing across National Highway

1	(a) Name of the Company asking for permission	Power Grid Corporation of India Limited
	(b) Full Address	±500 KV HVDC Substation, 4th KM Milestone, Alwar By Pass, Post-Khijuriwas, Bhiwadi, Dist - Alwar, Rajasthan, PIN - 301018
	(c) Telephone & Fax No.	9873397888
	(d) Details & Purpose:	Infringement with proposed RRTS Corridor of M/s NCRTC
	(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)	98.312 M (AP2) & 88.408 M (AP3)
	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 KM 56+650
	a. Name of Road	Delhi - Jaipur National Highway - 8
	b. Category of Road (to be ascertained from KM stone on road side)	National Highway
	c. Width of the road	
	1. Formation width measurement from earthen bank	60 M
	2. Black topped carriageway width	30 M (6 lane)
	3. Road Boundary width	64 M
	4. Location of the crossing on the Road [to be mentioned with km]	At KM 56+650
3	Details to be supplied on layout drawing.	Attached 3 copies of drawing
4	Geographics of the tower line route	
	1. Dimension of the tower	Transmission Tower of 400kV QD Type Tower (Narrow Base) - Drawing enclosed.
	2. Dimension of the protection pipe.	N/A
	3. Diameter of the tower	Transmission Tower of 400kV QD Type Tower (Narrow Base) - Drawing enclosed.
	1. This is to certify that no. Govt land shall be occupied by Power Grid 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 Power Grid Corporation of India Limited	YES
	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:




 21/01/22
 For and on behalf of:
 Meghraj Meena / Chief Manager (TLM)
 Power Grid Corporation of India Limited
 पावर ग्रीड कॉर्पोरेशन ऑफ इंडिया लिमिटेड
 Power Grid Corporation of India Limited
 उ.शे - 1/NR-1
 बिहवाड़ी (राज.)/ Bhiwadi (Raj.)

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 KM 56+650
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.	
	(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,

Power Grid Corporation of India Limited

मेघराज मीना / Meghraj Meena
मुख्य प्रबन्धक (टीएमएम) / Chief Manager (TMM)
पावर ग्रीड कॉर्पोरेशन ऑफ इंडिया लिमिटेड
Power Grid Corporation of India Limited

उ.शे.-1/NR-1

भिवानी (राज.) / Bhiwadi (Raj.)

Clearance Calculation Chart
Between AP2 to AP3 at 75°C

NH-8 Crossing near Manesar Section for 400 KV D/c Manesar-Neemrana Transmission line.

RL of Location No AP2	: 99.400 M
RL of Location No AP3	: 100.400 M
RL of NH-8 Surface Center	: 102.571 M
Bottom cross arm RL of Location no AP2	: $(47.00+99.40)=146.40$ M
Bottom cross arm RL of Location no AP3	: $(47.00+100.40)=147.40$ M
Tension (T) at 75°C	: 3114.234 KG
Crossing Span (L)	: 186.72 M
Conductor Weight (W) for ACSR Moose	: 2.004 KG
Height Difference of Bottom cross arm Between Location no AP2 and AP3(H)	: $(146.40-147.40)= 1.00$ M
Null Point	: $L/2 \pm (T \cdot H)/(W \cdot L)$ $186.720/2 \pm (3114.260 \cdot 1.000)/(2.004 \cdot 186.720)$ $=101.683\text{M} \ \& \ 85.037 \text{ M}$
Maximum Sag at Null Point	: $WL^2/2 T$ $(2.004 \cdot 85.037^2)/(2 \cdot 3114.260)$ $=2.323 \text{ M}$
Distance Between Center of NH-8 Crossing point and Maximum Sag Point	: $98.312-85.037=13.275 \text{ M}$
Sag Difference Between Maximum Sag point and Center on NH-8 Crossing point	: $WL^2/2 T$ $(2.004 \cdot 13.275^2)/(2 \cdot 3114.260)$ $=0.057 \text{ M}$
Sag at Center of NH-8 crossing point	: $(2.323-0.057)=2.266 \text{ M}$
RL of NH-8 crossing point Sag Level	: $146.40-2.266=144.134\text{M}$
<u>Clearance Between Bottom Conductor to NH-8</u>	: (RL of NH Crossing Sag point - RL of NH surface) $= 144.134-102.571$ $= 41.563 \text{ M.}$



_____ E) Shy
21/01/22

मेघराज मीना / Meghraj Meena
मुख्य प्रशासक (टीएलएम) / Chief Manager (TLM)
पावर ग्रीड कॉर्पोरेशन ऑफ इंडिया लिमिटेड
Power Grid Corporation of India Limited
उ.के.-1/NR-1
शिवादी (राज.) / Shiwadi (Raj.)