



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

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

क्षेत्रीय कार्यालय-पश्चिम उ०प्र०, लखनऊ Regional Office - West UP, Lucknow.

3/248, विशाल खण्ड, गोमती नगर, लखनऊ-226010 (उ.प्र.)

3/248, Vishal Khand, Gomti Nagar, Lucknow-226010 (UP)

दूरभाष / Phone : 0522-4960291, टेलीफैक्स / Fax : 0522-4950680

ई-मेल / E-mail : rowestup@nhai.org, rowestup@gmail.com

19001/1/RO-W-UP/NH-334/Km. 46+791/132KV/OH/1211

Dated: 15.02.2022

Invitation of Public Comments

Sub: Proposal of M/s DFCCIL (Dedicated Freight Corridor Corporation of India Ltd.) for permission of NH-334 NOC for Overhead Power Line crossing at 46+791 in District-Hapur for 132 KV D/C Hapur-Gulaothi overhead Transmission Line in District-Hapur.

The Manager, Power Grid H.V.D.C.-Dadri has submitted the proposal for permission of NH-334 NOC for Overhead Power Line crossing at 46+791 in District-Hapur for 132 KV D/C Hapur-Gulaothi overhead Transmission Line in District-Hapur in the State of Uttar Pradesh.

2. From the submitted proposal, it is seen that structures (Transmission Towers) on either side are being erected at distance of 64.41m & 115.00m respectively from either side of NH boundary. Crossing span of the structure is 246.39m. Further, the minimum vertical clearance of 15.10m between the lowest conductor of the proposed line and NH carriageway shall be maintained. However, the proposed transmission line shall be crossing the National Highway at 59° degree.

3. As per the guidelines, issued by the Ministry vide OM 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 grounds of public inconvenience, safety and general public interest).

4. In view of the above, comments of the public on the above application is invited to the below mentioned address, which should reach by this office within 30 days from the date of publication beyond which no comments shall be entertained.

The Regional Officer,
National Highways Authority of India
Regional Office, UP-West, Lucknow
3/248, Vishal Khand, Gomti Nagar
Lucknow-226 010

This issues with the approval of RO-UP (West).

Encl: As above.

(Signature)
(N.P. Singh)
DGM (T)
For RO-UP (West)

Copy to:

1. Web Admin, NHAI-HQ- with request for uploading on the NHAI website.
2. The Technical Director, NIC, Transport Bhawan, New Delhi- with request for uploading on the Ministry's website.
3. The Manager, Power Grid H.V.D.C.-Dadri for information.
4. The PD, PIU-Meerut for information.

CHECK-LIST

Project director for processing the proposal of lane overhead electrical line crossing national highway vested with NHAI

Circular/Codes:-

Ministry circular No. NH-III/P/20/77 Dated 08.04.1982

Indian Electricity Act 1910

Indian Electricity Rule 1956

IRC:32-1969

IS:5613-1976 Part I to IV

For getting the approval for layering of overhead electrical line along the National Highway NH-334 Vested with NHAI

Sr. No.	Item	Information/ Status	Remarks
1	General Information	132 kv D/C Hapur-Gulaothi Transmission line	
1.1	Name and Address of the Applicant/ Agency	POWERGRID Corporation of India Limited HVDC Terminal, Vidyut nagar, Gautam Budh Nagar-201008	
1.2	National Highway Number	NH-334	
1.3	State	Uttar Pradesh	
1.4	Location	Kurana, near toll plaza Gulaothi	
1.5	Chainage in KM	46+791	
1.6	Length in Meters	Span (246.39 mtr)	
1.7	Width of available ROW	27.00 Mtrs	
	(a) Left side from center line towards increasing Chainage/ km direction	13.50 Mtrs	
	(b) Right side from center line towards increasing Chainage/ km direction	13.50 Mtrs	
1.8	Proposal of crossing Power Line		
	(a) Left side from center line towards increasing Chainage/ km direction	As Above	
	(b) Right side from center line towards increasing Chainage/ km direction	As Above	
1.9	Proposal of acquire		
	(a) Left side from center line	Not Applicable	
	(b) Right side from center line	Not Applicable	
1.10	Whether proposal is in the same side where land is not be acquired	Not Applicable	
	If not then where to lay the cable	Not Applicable	
1.11	Details of already laid services, if any, along the proposed route	Not Applicable	
1.12	Number of existing lanes (2/4/6/8 lanes)	4	
1.13	Proposed number of Lanes (2 lane with paved shoulders/4/6/8 lanes)	Already 4 lane	
1.14	Service road existing or not		
	If yes, then which side		
	(a) Left side from center line	Not Applicable	
	(b) Right side from center line	Not Applicable	
1.15	Proposed service road		
	(a) Left side from center line	Not Applicable	
	(b) Right side from center line	Not Applicable	
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 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	Not Applicable	
1.18	Ministry circulars and relevant codes mentioned above		

नवीन वर्मा- NAVEEN VERMA

प्रबंधक- Manager

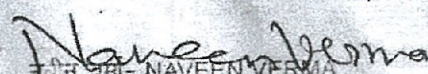
पावरग्रिड- POWERGRID

एच.वी.डी.सी.-दादरी, H.V.D.C.,-DADRI

Project Director
National Highway Authority of India
PIU-Meerut

Sr. No.	Item	Information/ Status	Remarks
1.19	1 - of Crossing of the road involved a) Crossing angle for NH and provide length along the highway b) Structure (Tower, pole and for HT line only tension tower) for crossing shall not be too near the existing structure on the national highway. The minimum distance being 15 meters. i) Type of existing / proposed structure of national highway	Yes a) 59°0'00", and 246.39 meters b) i) Nil ii) Distance is 64.41 MTR and 115.00 MTR	
	C) The overhead lines and their supporting poles/ towers should ordinarily be placed at the extreme edge of the road land boundary. In any case these shall be at least 10 mtrs. away from the edge of existing shoulder of extreme traffic lane. Where the existing road way is narrower than the minimum according to standard or where the widening is proposed for any reason the lateral clearance shall be reckoned with respect to ultimate road way. What is the horizontal clearance from the extreme edge of the road land boundary?	Not Applicable Horizontal clearance is 64.41 MTR (Tower no AP 9/0) and 115.00 MTR (Tower No AP 10/0)	
	(d) overhead lines and their supporting poles/ towers should originally be placed at the minimum distance of 5.0 m from the nearest line of avenue trees. What is the horizontal clearance from the nearest line of avenue tree?	NA(Over Head Transmission line Crossing)	
	(e) In mountain / hilly terrain the overhead line should be erected preferably only the valley side as far away as practicable in hilly region label of ground at the suitable distance below the outer conductor on either side from the central line is	Plain terrain	
	(f) The horizontal clearance in respect of poles erected from the purpose of street lightning in urban situation shall be as under.	Not Applicable	
	ii) For road with Minimum 300 mm from Raised kerbs 300 from the aged of nearest Kerb preferably 600 mm	Not Applicable	
	ii) For road with At least 1.5 m from the edge of the carriage way Raised kerbs subject to minimum 5.0 from the central line of carriage way.	Not Applicable	
	(g) The pylons of HT lines along crossing the road shall be located outside the NH land	Not Applicable	
	(h) for crossing the line of same voltage or lower voltage, suspension / tension tower with suitable extensions shall be used.	Not Applicable	
	(i) Ground clearance from the lowest conductor of the HT lines.	15.10 Meter	


 Project Director
 National Highway Authority of India
 P.U. Mohali


 प्रबंधक- Manager
 पावरग्रिड- POWERGRID
 एच.वी.डी.सी.-दादरी, H.V.D.C., DADRI

Sr. No.	Item	Information/ Status	Remarks
	(i) The vertical clearance of the overhead lines crossing the road shall be reckoned from the top of the crown of the road taking in to account the anticipated final top level due to future raising of road level strengthening of pavement etc. the actual ground clearance of high tension line for voltage above 650 volts varies depending upon the voltage transmitted and these are stipulated in Indian standard codes IS 5613-1976 part 1 to IV and Indian electricity rules 1956 as under	Actual ground clearance will be taken jointly by POWERGRID and NHAI	
2	Affidavit / under taking to be obtained from (to be furnished by the applicant)	Yes	
2.1	Not to damage to other utility if damage then to pay the losses either to NHAI or to the concerned agency.	Yes	
2.2	Undertaking for renewal of bank guarantee if required	Not Applicable	
2.3	Confirming all standard condition as laid down in ministry circular no-NH- III/P/20/77 dated 08.04. 1982 Indian electricity act 1910 Indian electricity rules 1956 IRC:32-1969, IS:5613-1976 part I to IV of NHAI).	Yes	
2.4	Shifting of overhead electrical line at their own cost as and when required by NHAI	Done by POWERGRID on the behalf of DFCC	
2.5	Shifting of overhead electrical line at their own cost as and when required due to 4/b laning / widening of NH	Done by POWERGRID on the behalf of DFCC	
2.6	Indemnity against all damage and claims whatsoever kind that may be to NHAI or to any third party in the row during installation operation and maintenance	Done by POWERGRID on the behalf of DFCC	
2.7	traffic movement during laying of OFC/cable to be managed by the applicant	Done by POWERGRID on the behalf of DFCC	
2.8	if any claim is raised by the concessionaire then the same has to be paid by the applicant .	Done by POWERGRID on the behalf of DFCC	
2.9	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	Yes	
2.1	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	yes	
2.11	if the NH division considers it necessary in future to move the utility line for any work of improvement or repairs at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given	Yes	
2.12	format: i) laying of overhead electrical will not have any deleterious effects on any of the bridge components and roadway safety of traffic. ii) For 4/6 laning "We do undertake that I will relocate service road/ approach road, utilities fit my own cost notwithstanding the permission granted within such time as will be stipulated by NHAI" for future 6 laning or any other	Yes	

N. Verma
नवीन वर्मा- NAVEEN VERMA
प्रबंधक- Manager

पावरग्रिड- POWERGRID
एच.वी.डी.सी.-दादरी, H.V.D.C.,-DADRI

B
Project Director
National Highway Authority of India
PIU-Meerut

Sr. No.	Item	Information/ Status	Remarks
2.13	transmissions line installation shall be carried out by trained and experienced personal and supervised by technically qualified persons competent to undertake such work.	Yes	
2.14	applicant ensures the safety of the highway traffic against the hazard of the high voltage lines during installation operations and maintenance	Yes	
2.15	Undertake the compliance with Indian Electricity rules and other authorities regulations all overhead lines shall comply with the requirement of the Indian Electricity act and rules made their under and the regulation or specification as laid down by NHAI	Yes	
	other documents and drawing to be furnished by the applicant.	Yes	
3.1	Methodology for laying of overhead electric line	Yes	
3.2	Drift licence agreement	Yes	
	Performance bank guarantee in favor of NHAI has to be obtain at the Rs 100/- per running, meter parallel to NH and Rs. 1 00000/- per crossing of NH		
3.3	For 8 period of one year initially (extendable if required till satisfactory completion of work) as a security for insuring making good the area, clearing debris/Tonse earth etc. produced in the right of way. No payment shall be payable by the NHAI to the licence for clearing debris/loose earth.	Yes	
3.4	Strip plan/route plan showing overhead electrical line, chainage with of ROW, distance of proposed structure (tower pole and for HT line only tension towers) from the edge of ROW important milestone intersection cross drainage works any other structure existing of proposed etc.	Yes	
4	Certificate from project director	Not Applicable	
4.1	Certificate for confirming that the proposal has been examined with respect to the structures and developmental work considered at this location and compliance of the standard conditions issued vide ministry circular no. NS- II I/P/20/77 dated 08.04. 1982 indian electricity Act 1910 Indian Electricity rules 1956 [RC : 32-5613-1 976 pari I to 1V of (NHAI) and NHAI's guideline.	Yes	
4.2	Certificate from project director		
4.3	i) It is certified that any other location of the electric line would be extremely difficult and unresonable costly and the installation of electric line 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 carriage way easing of kerb ect.	Not Applicable	
	ii) For 6 laning a) Where feasibility is available "I do certify that there will no hindrance to propose 6 laning based on the feasibility report considering proposed structures at the said location." b) In case feasibility report is not available "do certify that sufficient ROW is available at site for accommodation of six laning."	Not Applicable	

नवीन वर्मा- NAVEEN VERMA

प्रबंधक- Manager

पावरग्रिड- POWERGRID

एच.वी.डी.सी.-दादरी, H.V.D.C.,-DADRI

Project Director
National Highway Authority of India
PIU-Meerut

Sr. No.	Item	Information/ Status	Remarks
5	If NH section proposed to be taken up by NHAI on BOT basis B clause is to be inserted in the agreement "The permitted highway on which license has been granted the right to lay overhead electrical line also been granted as a right of way to the concessionaire under the concession agreement for up gradation of.	Not Applicable	
6	Who Will supervise the work of laying of overhead electrical line	POWERGRID Corporation of India Limited	
7	Who will sign the agreement on behalf of overhead electrical line agency	Sr.GM Dadri	
8	Who will ensure that the defect in road portion after laying of overhead electrical arc corrected and if not corrected that what action will be taken	Done by POWERGRID on the behalf of DFCC	
9	Who will pay the claim for damages done/disruption in working of concessionaire if asked by the concessionaire.	Done by POWERGRID on the behalf of DFCC	
10	A certificate from PD that he will enter the proposed permission in register of record of the permission in the prescribed Performa (copy enclosed)	Enclosed/ NHAI	

N. Verma

नवीन वर्मा - POWERGRID
प्रबंधक- Manager

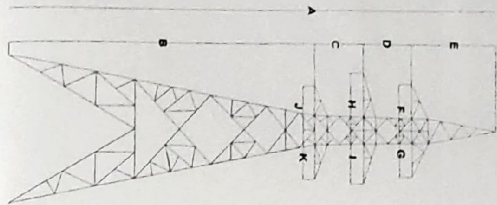
पावरग्रिड- POWERGRID

एच.वी.डी.सी.-दादरी, H.V.D.C., -

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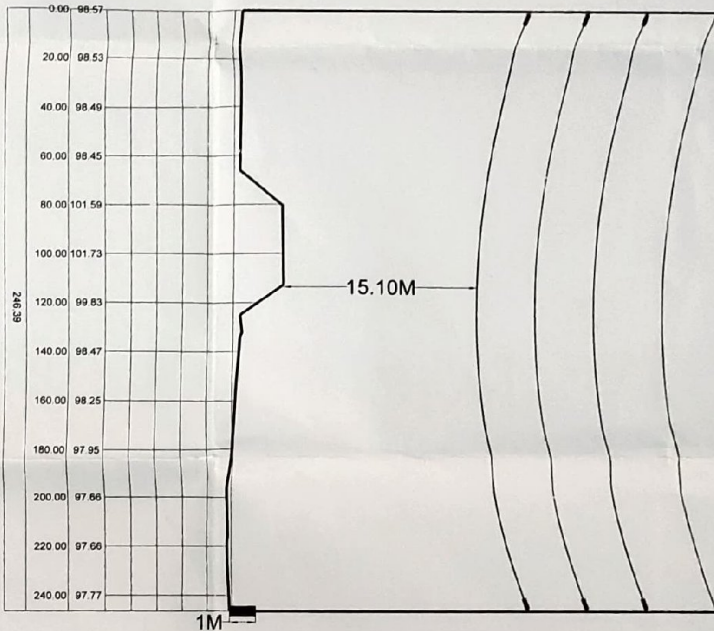
Project Director
National Highway Authority of India
PIU-Meerut

Sl. No.	Particulars	Value
1.	Normal Span	330.0
2.	Conductor	40.128
3.	Cable Diameter	23.313
4.	Area	4.6
5.	Weight	7.815
6.	Temp. Range (Full Wind)	4.45
7.	Ground Clearance	3.75
8.	Tension at 75°C	6.15
9.	Tension at 15°C	4.95
10.	Maximum Sag (75°C) (m)	5.25
11.	Maximum Sag (15°C) (m)	4.05

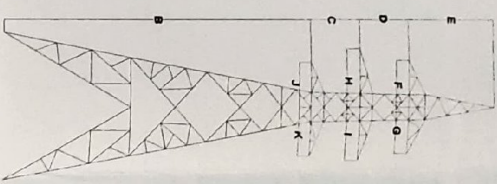


LOC NO.-90
DD-9

LOC NO.-100
DD-9-1MTR RAISED CHIMNEY



Sl. No.	Particulars	Value
1.	Normal Span	330.0
2.	Conductor	40.128
3.	Cable Diameter	23.313
4.	Area	4.6
5.	Weight	7.815
6.	Temp. Range (Full Wind)	4.45
7.	Ground Clearance	3.75
8.	Tension at 75°C	6.15
9.	Tension at 15°C	4.95
10.	Maximum Sag (75°C) (m)	5.25
11.	Maximum Sag (15°C) (m)	4.05



N.H. PROPOSAL

On Bulandshahra-Meerut National Highway (NH - 334)
near Village: Kurana

LOC NO :- 9/OTO 10/0

Conductor Parameters With Condition

1. NORMAL SPAN	330.0	6. TEMP. RANGE (FULL WIND)	0°C - 32°C / 75°C
2. CONDUCTOR	40.128	7. GROUND CLEARANCE	6100.0mm
3. CABLE DIAMETER	23.313	8. TENSION AT 75°C	2834.43kg
4. AREA	4.6	9. TENSION AT 15°C	1796.22 kg
5. WEIGHT	7.815	10. MAXIMUM SAG (75°C) (m)	7.800

LEGEND -

Sl. No.	DESCRIPTION	SYMBOL	Sl. No.	DESCRIPTION	SYMBOL
1.	Angle Point with Alignment Shown as		11.	Water / River Shown as	
2.	Bridge / Road Shown as		12.	Interlocking Point / TDR Shown as	
3.	Overhead Line / Cable Shown as		13.	Overhead Line / Cable Shown as	
4.	Overhead Line / Cable Shown as		14.	Overhead Line / Cable Shown as	
5.	Overhead Line / Cable Shown as		15.	Overhead Line / Cable Shown as	
6.	Overhead Line / Cable Shown as		16.	Overhead Line / Cable Shown as	
7.	Overhead Line / Cable Shown as		17.	Overhead Line / Cable Shown as	
8.	Overhead Line / Cable Shown as		18.	Overhead Line / Cable Shown as	
9.	Overhead Line / Cable Shown as		19.	Overhead Line / Cable Shown as	
10.	Overhead Line / Cable Shown as		20.	Overhead Line / Cable Shown as	

CLEARANCES:

Sl. No.	DESCRIPTION	CLEARANCE REQUIRED (Mtrs.)
1.	GROUND CLEARANCE - SAG ERROR (150mm)	6.230
2.	ROAD CROSSING	8.80
3.	POWER LINE CROSSING	3.10
4.	RAILWAY CROSSING	17.90
5.	ROAD CROSSING SPAN	< 250

CLIENT : POWER GRID CORPORATION OF INDIA LIMITED



(A GOVERNMENT OF INDIA ENTERPRISE)

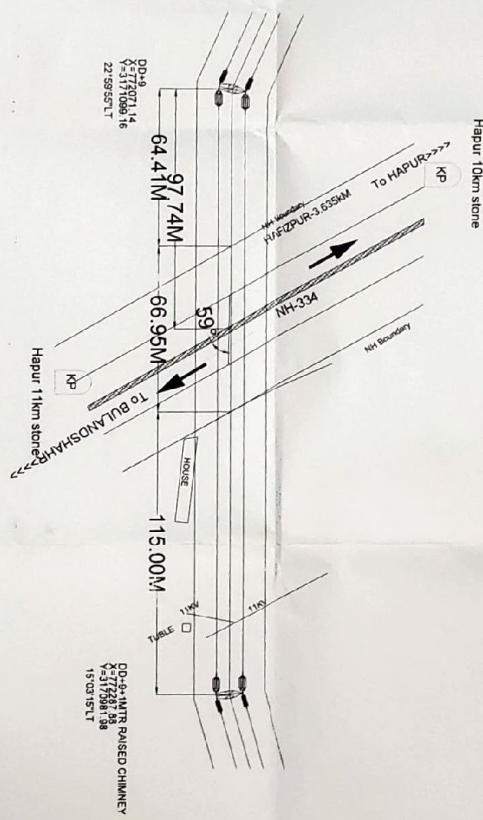
PROJECT : 132KV DIC HAPUR TSS (DFCCIL) - GULAOATHI TSS

(Railway) Transmission Line

Drawing No.

SHEET No:- 1 OF 1

For POWER GRID CORPORATION OF INDIA LIMITED



DD-9
K-177000-14
K-177000-14
27 58 55 LT

DD-9-1MTR RAISED CHIMNEY
K-177000-14
K-177000-14
15 03 15 LT

Checked by

Drawn by

Revised by

Approved by

Signature

132KV DIC HAPUR TSS (DFCCIL) - GULAOATHI TSS
(Railway) Transmission Line
Drawing No. 1 OF 1
SHEET No:- 1 OF 1
For POWER GRID CORPORATION OF INDIA LIMITED