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(সম্পূর্ণ নাম) %-ি ৪৯ আবেদনক বাছে আবেদন পত্ৰ জমা দিয়াৰ প্ৰাপ্তি স্বীকাৰ (আৰু আবেদন মাচুল জমা দিয়াৰ ৰচিদ নগদ খনেৰে জমা দিয়াৰ ক্ষেত্ৰত) পি আই আ. এ পি আই আৰ পৰা সংগ্ৰহ কৰিব আৰু ভৱিষ্যৎ প্ৰয়োজনৰ বাবে সুৰক্ষিত কৰি ৰাখিব। ্তক্রীয় চরকারঃ তথাত বাবে আবেদন মাচুল ইণ্ডিয়ান পোটোল আঠারর জরিয়াত জমা দিব পারিব। তিখা জনাৰ অভিনাৰ অইন, ২০০৩ ৰ অধীনত উঠা কাগজত তথা বিচাৰি আবেদন কৰিব পাৰি, ইয়াৰ কোনো নিৰ্দিট্ট প্ৰণাই নাই সন্ত্ৰ আৰ্থি প্ৰথম হাৰ্গ প্ৰদৰ্শনাই মাত্ৰ।

(भारत सरकार का उद्यम)

### POWER GRID CORPORATION OF INDIA LIMITED

(A Government of India Enterprise)

डोंगटिय, लोवर नोंग्राह, लापालांग, शिलांग दृ 7793006 (मेघालय)

दूरभाषः ;0364द्ध 2536562, फैक्सः 2536387

Dongtieh, Lower Nongrah, Lapalang, Shillong – 793006 (Meghalaya)

Telephone: (0364) 2536562, Fax: 2536387

उत्तर पूर्वी क्षेत्र पारेशण प्रणाली/NORTH EASTERN REGION TRANSMISSION

SPEED POST

Ref No: NESH/PESM/RTI-292/ 33

Date: 02.08.2016

To:

Sri Manik Talukder

Vill: Soru Patgon, P.P. Ghoramari,

P.S.Salonibari

Dist: Sonitpur, Assam

Pin - 784105

Sub: Your application dtd. 08.07.2016

Sir,

- 1.0 This is in reference to your application dated 08.07.2016, received at CPIO office at Shillong on 28.07.2016.
- 2.0 Information pertains to your query are furnished below:-

### Reply to Query-01

It is to inform you that construction of  $\pm$  800 KV HVDC transmission Line from Biswanath Charali to Agra was completed on **14.09.2015**. As per provision of the Indian Electricity Act'2003 (as amended from time to time), there is no provision of land acquisition for laying of Transmission Line. As per provision of this act, surface damage compensation against standing Crops/ Trees were disbursed to affected land owners based on rates of concerned State Government.

## Reply to Query-02

As per CEA (Measures relating to Safety and Electric Supply) Regulation, 2010, the vertical clearance and horizontal clearance with building/structure, on the basis of maximum deflection due to wind pressure, for  $\pm$  800 KV HVDC the Vertical Clearance is 12.4 mtr. & Horizontal Clearance is 10.7 mtr.

#### Reply to Ouery-03

Transmission lines are designed as per guidelines of CEA, Ministry of Power, Govt. of India. So, Health hazards due to transmission line does not arise.

3.0 The address of the appellate authority is mentioned hereunder for your information:

Sh. A Choudhary, ED (NERTS)

POWERGRID, Dongtieh, Lower Nongrah,

Lapalang, Shillong - 793006, Meghalaya.

0364-2536371, abhaychy@gmail.com

Kindly acknowledge receipt of this letter.

भवदीय

उप महाप्रबंधक

(के. लो. सू. अधिकारी)

0364-2536439,

cpio.nerts@gmail.com

NIO-

Manager (Vigilance), Shillong

## POWER GRID CORPORATION OF INDIA LTD. CORPORATE OPERATION SERVICES

DOCUMENT NO:

D-2-01-70-01-02

DOCUMENT NAME:

PRE-COMMISSIONING PROCEDURES & FORMATS FOR TRANSMISSION LINES .

ANNEXURE - 1

## CENTRAL ELECTRICITY AUTHORITY (Measures relating to safety and Electric Supply) Regulations, 2010

## (The relevant portion of the CEA's Regulations, 2010 is reproduced below)

- 58. Clearance above ground of the lowest conductor of overhead lines.-
  - (1) No conductor of an overhead line, including service lines, erected across a street shall at any part thereof be at a height of less than-
    - (i) for lines of voltage not exceeding 650 Volts -

5.8 metres

(ii) for lines of voltage exceeding 650 Volts but not exceeding 33 kV-

6.1 metres

- (2) No conductor of an overhead line, including service lines, erected along any street shall at any part thereof be at a height less than-
  - (i) for lines of voltage not exceeding 650 Volts -

5.5 metres

(ii) for lines of voltage exceeding 650 Volts but not exceeding 33 kV-

5.8 metres

- (3) No conductor of an overhead line including service lines, erected elsewhere than along or across any street shall be at a height less than -
  - (i) for lines of voltage upto and including 11,000 Volts,if bare -

4.6 metres

(ii) for lines of voltage upto and including 11,000 Volts, if insulated -

4.0 metres

(iii) for lines of voltage exceeding 11,000 Volts but not exceeding 33 kV - 5.2 metres

(4) For lines of voltage exceeding 33 kV the clearance above ground shall not be less than 5.2 metres plus 0.3 metre for every 33,000 Volts or part thereof by which the voltage of the line exceeds 33,000 Volts;

Provided that the minimum clearance along or across any street shall not be less than 6.1 metres.

(5) For High Voltage Direct Current (HVDC) lines, the clearance above ground shall not be less than:-

SI. No.	DC Voltage(kV)	Ground Clearance (mtrs.)
1	100 kV	6.1
2	200 kV	7.3
3	300 kV	8.5
4	400 kV	9.4
5	500 kV	10.6
6	600 kV	11.8
7	800 kV	13.9

Ground clearances shall be as specified in schedule-X.

# POWER GRID CORPORATION OF INDIA LTD. CORPORATE OPERATION SERVICES

DOCUMENT NO:

D-2-01-70-01-02

DOCUMENT NAME:

PRE-COMMISSIONING PROCEDURES & FORMATS FOR TRANSMISSION LINES

- Clearances from buildings of lines of voltage exceeding 650 V.-
  - (1) An overhead line shall not cross over an existing building as far as possible and no building shall be constructed under an existing overhead line.
  - (2) Where an overhead line of voltage, exceeding 650 V passes above or adjacent to any building or part of a building, it shall have on the basis of maximum sag a vertical clearance above the highest part of the building immediately under such line, of not less than-
    - (i) for lines of voltages exceeding 650 Volts upto and 3.7 metre including 33,000 Volts-
    - (ii) for lines of voltages exceeding 33 kV

3.7 metere plus 0.30 metre for every additional 33,000 Volts or part thereof

- (3) The horizontal clearance between the nearest conductor and any part of such building shall, on the basis of maximum deflection due to wind pressure, be not less than-
  - (i) for lines of voltages exceeding 650 V upto and

including 11,000 Voltsfor lines of voltages exceeding 11,000 V and up 2.0 metres

(ii) for lines of voltages exceeding 11,000 V and to and including 33,000 V-

(iii) for lines of voltages exceeding 33 kV-

2.0 metres plus 0.3 metre for every additional 33kV or part thereof

(4) For High Voltage Direct Current (HVDC) systems, vertical clearance and horizontal clearance, on the basis of maximum deflection due to wind pressure, from buildings shall be maintained as below:

SI. No	DC Voltage (kV)	Vertical Clearance (mtrs.)	Horizontal Clearance (mtrs.)
1.	100 kV	4.6	2.9
2.	200 kV	5.8	4.1
3.	300 kV	7.0	5.3
4.	400 kV	7.9	6.2
5.	500 kV	9.1	7.4
6.	600 kV	10.3	8.6
7.	800 kV	12.4	10.7

(5) Vertical and horizontal clearances shall be as specified in schedule-X.

Explanation:- For the purpose of this regulation the expression "building" shall be deemed to include any structure, whether permanent or temporary.

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