



पावर ग्रिड कोर्पोरेशन ऑफ इंडिया लिमिटेड
Power Grid Corporation of India Limited



सूचना का अधिकार अभिनियम 2005 के अंतर्गत केन्द्रीय लोक सूचना अधिकारी
Central Public Information Officer under the RTI Act, 2005
केन्द्रीय कार्यालय, 'सौदामिनी', प्लॉट नं.2, सैक्टर-29, गुडगांव, हरियाणा-122007
Corporate Centre, 'Saudamini', Plot No. 2, Sector-29, Gurgaon, Haryana-122007

CP/RTI/2018/79

Date: 18th May, 2018

Smt. Savita Rani,
35, Mohindra Colony A,
Near NIS and Kesar Pehalwan Akhara,
Patiala – 147 001
Punjab

Sub: Information under Right to Information Act, 2005.

Madam,

This has reference to your RTI request forwarded by MOP through online RTI portal on 9th May, 2018 for providing information under RTI Act, 2005.

The desired information is attached at **Annexure-I**.

First Appeal, if any, against the reply of CPIO may be made to the first appellate Authority within 30 days of the receipt of the reply of CPIO. Details of Appellate Authority at Corporate Centre, Gurgaon, under RTI Act, 2005 is as below:

Shri Sanjeev Singh,
Executive Director (CMG) & Appellate Authority
Corporate Centre, Power Grid Corporation of India Limited
"Saudamini", Plot No. 2, Sector-29, Gurgaon – 122007, Haryana.
Email ID: sanjeev@powergridindia.com
Phone No. 0124-2571962

Thanking you,

भवदीय,

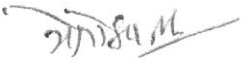
(अजय होलानी)

अपर महाप्रबंधक (के.आ.) एवं के.लो.सू.अधिकारी

Email ID: cpio.cc@powergrid.co.in

Sr.No.	Information Sought	Reply
1	Right of way (ROW) distance in meters to be maintained for erecting a new building or structure against various high voltage lines(greater than or equal to 400 KV) present in India and copy of rules & regulations/IS codes/Electricity safety rules mentioning the same.	Central Electricity Authority Regulations for "Measures relating to Safety and Electric Supply, 2010" inter-alia stipulate under clause no. 61, the horizontal clearance of an overhead line conductor passing above or adjacent to any building or part of a building. As per the regulation, minimum horizontal clearance comes out to 5.6 m for 400 KV & 8.9 m for 765 kV lines from outer phase of the line. Copy of regulation 2010, rule 61 is enclosed.
2	Copy of Rule 63- Electricity Safety rule	Copy of rule 63 – Electricity safety rule is enclosed (Regulation 2010)
3	Copy of act 68 (5) of Electricity Act 2003	Copy of act 68 (5) of Electricity Act 2003 is enclosed

This is for further necessary action at your end.


(Y.P.Singh)

(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.

61. 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 up to and including 33,000 Volts - 3.7 metres
 - (ii) for lines of voltages exceeding 33 kV - 3.7 metres 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 up to and including 11,000 Volts - 1.2 metres
 - (ii) for lines of voltages exceeding 11,000 V and up to and including 33,000 V - 2.0 metres
 - (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:

Sl.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

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CEA regulation 2010 sub 61

(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.

62. Conductors at different voltages on same supports.-

Where conductors forming parts of systems at different voltages are erected on the same supports, the owner shall make adequate provision to guard against danger to linemen and others, from the lower voltage system being charged above its normal working voltage, by leakage from or contact with the higher voltage system and the methods of construction and the applicable minimum clearances between the conductors of the two systems shall be as specified in regulation 69 for lines crossing each other.

63. Erection or alteration of buildings, structures, flood banks and elevation of roads.-

(1) If at any time subsequent to the erection of an overhead line, whether covered with insulating material or not, any person proposes to erect a new building or Structure or flood bank or to raise any road level or to carry out any other type of work whether permanent or temporary or to make in or upon any building, or structure or flood bank or road, any, permanent or temporary addition or alteration, he and the contractor whom he employs to carry out the erection, addition or alteration, shall give intimation in writing of his intention to do so, to the supplier or owner and to the Electrical Inspector and shall furnish therewith a scale drawing showing the proposed building, structure, flood bank, road or any addition or alteration and scaffolding thereof required during the construction.

(2) On receipt of such intimation, the supplier or owner shall examine,-

- (i) whether the line under reference was laid in accordance with the provisions of these regulations and any other law;
- (ii) whether it is technically feasible;
- (iii) whether it meets the requirement of Right of Way (ROW);
- (iv) whether such person was liable to pay the cost of alteration of the overhead line and if so, send a notice without undue delay, to such person together with an estimate of the cost of the expenditure likely to be incurred to so alter the overhead line and require him to deposit, within thirty days of the receipt of the" notice, with the supplier or owner, the amount of the estimated cost.

(3) thereof shall If such person disputes the cost of alteration of the overhead line estimated by die supplier or owner or even the responsibility to pay such cost, the dispute may be referred to the Electrical Inspector whose decision be final.

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CEA Regulation 2010⁴⁹ rule 63

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63. Erection or alteration of buildings, structures flood banks and elevation of roads.-

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 - (ii) whether it is technically feasible;
 - (iii) whether it meets the requirement of Right of Way (ROW);
 - (iv) whether such person was liable to pay the cost of alteration of the overhead line and if so, send a notice without undue delay, to such person together with an estimate of the cost of the expenditure likely to be incurred to so alter the overhead line and require him to deposit within thirty days of the receipt of the " notice, with the supplier or owner, the amount of the estimated cost.
- (3) If such person disputes the cost of alteration of the overhead line estimated by the supplier or owner or even the responsibility to pay such cost, the dispute may be referred to the Electrical Inspector whose decision be final.

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- (p) such other matters as are incidental or consequential to the construction and maintenance of works under this section.

(3) A licensee shall, in exercise of any of the powers conferred by or under this section and the rules made thereunder, cause as little damage, detriment and inconvenience as may be, and shall make full compensation for any damage, detriment or inconvenience caused by him or by any one employed by him.

(4) Where any difference or dispute [including amount of compensation under sub-section (3)] arises under this section, the matter shall be determined by the Appropriate Commission.

(5) The Appropriate Commission, while determining any difference or dispute arising under this section in addition to any compensation under sub-section (3), may impose a penalty not exceeding the amount of compensation payable under that sub-section.

Section 68. (Provisions relating to Overhead lines: --- (1) An overhead line shall, with prior approval of the Appropriate Government, be installed or kept installed above ground in accordance with the provisions of sub-section (2).

(2) The provisions contained in sub-section (1) shall not apply-

- (a) in relation to an electric line which has a nominal voltage not exceeding 11 kilovolts and is used or intended to be used for supplying to a single consumer;
- (b) in relation to so much of an electric line as is or will be within premises in the occupation or control of the person responsible for its installation; or
- (c) in such other cases, as may be prescribed.

(3) The Appropriate Government shall, while granting approval under sub-section (1), impose such conditions (including conditions as to the ownership and operation of the line) as appear to it to be necessary.

(4) The Appropriate Government may vary or revoke the approval at any time after the end of such period as may be stipulated in the approval granted by it.

(5) Where any tree standing or lying near an overhead line or where any structure or other object which has been placed or has fallen near an overhead line subsequent to the placing of such line, interrupts or interferes with, or is likely to interrupt or interfere with, the conveyance or transmission of electricity or the accessibility of any works, an Executive Magistrate or authority specified by the Appropriate Government may, on the application of the licensee, cause the tree, structure or object to be removed or otherwise dealt with as he or it thinks fit.

(6) When disposing of an application under sub-section (5), an Executive Magistrate or authority specified under that sub-section shall, in the case of any tree in existence before the placing of the overhead line, award to the person interested in the tree such compensation as he thinks reasonable, and such person may recover the same from the licensee.

Explanation. - For the purposes of this section, the expression "tree" shall be deemed to include any shrub, hedge, jungle growth or other plant.

Section 69. (Notice to telegraph authority): --- (1) A licensee shall, before laying down or placing, within ten meters of any telegraph line, electric line, electrical plant or other works, not being either service lines, or electric lines or electrical plant, for the repair, renewal or amendment of existing works of which the character or position is not to be altered,-

- (a) submit a proposal in case of a new installation to an authority to be designated by the Central Government and such authority shall take a decision on the proposal within thirty days;
- (b) give not less than ten days' notice in writing to the telegraph authority in case of repair, renewal or amendment of existing works, specifying-
 - (i) the course of the works or alterations proposed;
 - (ii) the manner in which the works are to be utilised;
 - (iii) the amount and nature of the electricity to be transmitted;
 - (iv) the extent to, and the manner in which (if at all), earth returns are to be used,