

## Indian Electricity Rules, 1956 Vs CEA (Measures relating to Safety and Electric Supply) Regulations, 2010

Subject	Rule	Regln.	Changes
Authorised persons	3	3 & 5	Under Regn.-3 – regarding operators & workers. Under Regn.-5 – Electrical safety Officer. [Rule-3(6)]
General safety requirements	29	12	a sub-regulation (4) regarding the installation of the electrical equipment above MSL
Handling of electric supply lines and apparatus	36	19	Two sub-regulations (5) & (6) are seen added newly mentioning about earthing, painting & identification of the panels/switch gears.
Periodical Inspection	46	30	Sub-rules 2(a) & (b) regarding the steps to be taken for the non-remittance of inspection fee are seen removed. Sub-rule (3) fixing the responsibility of the consumer in maintaining the installation free of danger is seen deleted.
Generator – initial inspection	47A	32	the capacity above which to be inspected by the Electrical Inspector before commissioning will be notified by the Appropriate Govt.
Multi storied buildings	50A	36	(a). The connected load & voltage above which Electrical Inspector is to be inspected will be notified by the Appropriate Govt. (b). The height of the emergency push button is now not more than 1.7m, but with IER, this limit was 2.75m.
Provisions applicable to medium, high or extra-high voltage installations	51	37	No Change [51(1)(c) – 37(iii)]
Initial Inspections	63	43	(a) the voltage above which Electrical Instns. need to be inspected by the Electrical Inspector will be notified by the Appropriate Govt. (b) With rule the period of recommencement of supply after an installation was disconnected, after which permission from Electrical Inspector is needed was one year. But, with the regulation this period is reduced to six months. [63(3) – 43(4)]
Neon Sign – initial inspections	71	52	the height of the emergency fire switch shall be 1.7m instead of 2.75m
High voltage electrode boilers	72	53	No change
X-ray – initial inspection	73	54	No change
Clearance above ground of the lowest conductor	77	58	Sub-regulation-58(5) is added for HVDC Line clearances and sub-regulation 58(6) gives a diagram with schedule-X for Ground clearances.
Clearance between conductors and trolley wires	78	59	No change
Clearance from buildings of low and medium voltage lines and service lines	79	60	sub-regulation 60(1) added that an OH line shall not cross an existing building as far as possible and no building shall be constructed under an existing overhead line. All the other clauses remain the same. The vertical and horizontal clearances are explained through a diagram under schedule-X through sub-regulation 60(5).
Clearances from buildings of high and extra-high voltage line	80	61	sub-regulation 61(4) for HVDC clearances. Two changes similar to 60(1) & 60(5) are there as explained above.
Conductors at different voltages on same supports	81	62	Direction is there to comply with regulation-69
Erection of or alteration to buildings, structures, flood banks and elevation of roads	82	63	No change
Transporting and Storing of material near overhead lines	82A	64	64(4)- No flammable material shall be stored under the electric supply line, 64(5)- No fire shall be allowed above underground cables, 64(6)- Firing of any material below electric lines shall be prohibited.
Clearances: General	83	65	Totally changed
Routes: Proximity to aerodromes	84	66	No change
Maximum interval between supports.	85	67	No change
Conditions to apply where telecommunication lines and power lines are carried on same supports.	86	68	No change
Lines crossing or approaching each other	87	69	2 major additions of HVDC clearances (69(iv)) & a clause to make guarding as mandatory for lines of voltage not exceeding 33kV when cross a road or street (69(ii)).
Guarding	88	70	No change
Service-lines from Overhead lines	89	71	No change
Safety and protective devices	91	73	73(1) – OH line shall be protected with earth guarding itself. 69(2) also may be seen.
Entry and Inspection	5		Rule-7 of Qualifications, Powers and Functions of Chief Electrical Inspector and Electrical Inspectors Rules, 2006 [5(4) – 7(5)]
Intimation of accidents	44A		Section 161 of Electricity Act, 2003 & Intimation of Accidents (Form and Time of service of Notice) Rules, 2004
Temporary Electrical Installations			Section 54 of Electricity Act, 2003

### **General observations from CEA (Measures relating to Safety and Electricity Supply) Regulations, 2010:-**

1. Instead of LT, MV, HV or EHV in IER, 1956 with CEA Safety Regulations, 2010 respective voltage ranges are used with regulations. (ie. 250V, 650V, 33kV or above)
2. Only Electrical Inspector is used, nowhere, the 'officers to assist'.
3. In most of the cases the 'to the satisfaction' or similar phrase is replaced with 'as per Indian Standards'.
4. With many regulations, it is mentioned that the limit to which Electrical Inspector to be inspected will be notified by the Appropriate Government.
5. Wherever the word ENERGY is used, now it is replaced with ELECTRICITY.