

**ELECTRICAL INSPECTORATE
GOVERNMENT OF SIKKIM**

FORM OF APPLICATION SEEKING APPROVAL TO COMMENCE POWER SUPPLY IN OVERHEAD LINE EXCEEDING 650 VOLTS REQUIRED FOR THE PURPOSES OF ACCORDING APPROVAL UNDER REGULATION 43 OF THE CENTRAL ELECTRICITY AUTHORITY (MEASURES RELATING TO SAFETY & ELECTRIC SUPPLY) REGULATIONS, 2010.

NOTE:

1. This is to be approved by the Inspectorate of Electricity, Government of Sikkim, before the line is energized.
2. This Test Report is to be submitted in duplicate.
3. Name of the overhead Line/Feeder :
4. Applicant :
 - (a) Name of the owner of organisation & Address :
 - (b) Name & address of concerned officer :
(including phone/mobile/e-mail/Fax)
 - 4.1 Voltage of line :
 - 4.2 Location :
 - 4.3 From (Starting point) To (Termination point) :
 - 4.4 Purpose for which the line is constructed :
 - 4.5 Length of line in kilometre :
 - 4.6 Quantum of power proposed to be transmitted:
5. Whether the installation(s) has been completed and is
(are) ready for energisation :
 - (a) If, yes – attach completion certificate and indicate :
The date(s) of installation to be inspected.
 - (b) If, No-indicate Targeted date of completion and :
Probable date(s) of installation to be inspected :
6. Details of spans of the line
 - 6.1 Total No. of Spans :
 - 6.2 Average length of Spans :
 - 6.3 Maximum length of Spans :

7. Type and size of conductor used :
8. A. Type of Support used and Materials :
B. Total No. of Supports :
9. Type of Insulators used (Pin, Disc, and Poly) :
10. Type of Cross arms used with size :
11. Clearance between ground and the lowest conductor (Regulation 58)
11.1 Across a street :
11.2 Along a street :
11.3 Elsewhere :
12. Clearance from nearby building, if any (Regulations 61) :
12.1 Minimum vertical clearance above highest part of such building :
12.2 Minimum horizontal clearance between nearest conductor & any part of such building. :
12.3 If proper guarding provided in case of 12.1 above :
13. Where conductors forming parts of system of different voltage are erected on the same support, has adequate provision been made to guard against the danger from the lower voltage system being charged above the normal working voltage by leakage from or contact with higher voltage system ? (Regulation 62)
13.1 Has Cradle guard been provided :
- 14, Where overhead lines cross or are in proximity of each other, have they been suitably protected to guard against possibility of their coming into contact with each other (Regulation 69)
14.1 Mention the voltage of the other line in the vicinity :
14.2 What are the minimum clearance between such lines :
(a) Horizontal :
(b) Vertical :

- 14.3 Has guard been provided :
- 14.4 In case two lines are crossing, what is the angle of crossing :
15. Where an overhead line is crossing or is in the proximity of any telecommunication line, has the overhead line is protected in the manner laid down in the code of practice of power and telecommunication co-ordination committee (Regulation 69) :
- 15.1 Whether necessary clearance has been received from P.T.C.C.? (A copy of such approval is to be enclosed). :
16. Insulation resistance of the line :
- 16.1 Phase to earth (a) (b) (c)
- 16.2 Phase to phase (a) (b) (c)
- 16.3 Mention voltage of Insulation Tester used :
17. What is the type & size of guard wire used? :
- (Details of earthing is to be furnished in the Annexure – I)
18. If all the supports of overhead line and metallic fittings attached thereto are permanently & efficiently earthed (Regulation 72) :
- 18.1 Is continuous earth wire provided :
- 18.2 If so at what intervals earth wire is earthed :
- 18.3 If no earth wire is used, whether metallic supports of all individual poles are earthed? (Details of earthing with drawing is to be Furnished as Annexure in extra sheet) :
19. Are stay wires are permanently earthed (Regulation 72) :
Mention the minimum height at which guy insulator is used :
20. Has the overhead line been suitably protected with device for rendering the line electricity harmless in case it breaks (Regulation 73) ? And its location. :
- 20.1 Give details of such device used :
(a) Make :

- (b) Specifications (Rating) :
 - (c) Type of protection provided :
 - (d) Normal setting :
21. Whether anti-climbing devices have been provided for each support (Regulation 73) ? :
 22. Has the overhead line been provided with efficient means for diverting electrical surge due to lightning (Regulation 74) :
 - 22.1 What type of lightning arrester used & K.A . :
 - 22.2 Location of lightning arrester :
 - 22.3 Has the lightning arrester been efficiently earthed to an independent electrode/System? :
 - 22.4 Number of electrode used for earthing the lightning arrester system (Details of earthing is to be furnished in the Annexure-I) :
 - 22.5 Is the lightning arrester earthing system connected to any other earthing system ? :
 23. Has any gang operated switch/isolator been provided any where ? :
 - 23.1 Indicate location(s) of the same :
 - 23.2 Mention rating of each gang switches :
 - 23.3 Are all gang switches efficiently earthed? (Details of earthing to be provided in the Annexure –I) :
 - 23.4 State whether an insulated or efficiently earthed platform for the operator is provided? (Details of earthing, if any, is to be provided in the Annexure-I) :
 - 23.5 Any other protection provided if any :
 - 23.6 Voltage Regulation at the end of the line :
 24. Has caution notice boards been provided at each support (Regulations 18) ? :
 25. Whether all relevant provisions of CEA (measures Relating to Safety and Electric Supply) Regulations, 2010, has been complied with. :

26. Enclosures :

- (1) Annexure-I for details of earthing done :
- (2) Sketch showing details of different type of supports used in the over head line. :
- (3) A sketch of guards provided with dimensions and size of wires used. :
- (4) A sketch showing alignment of line indicating positions of sub-stations, supports, CT, PT, breaker, isolator, fuses, gangs, and earthing & also roads, rivers and prominent structures, if any. :
- (5) List of materials used in construction of the Tr. Line: In Annexure-II.
- (6) Copy of Approval of the State Government under section 68 of Electricity Act 2003 where necessary .
- (7) Copy of PTCC Clearance
- (8) Copy of Forest Clearance
- (9) NOC from Airport Authority of India (AAI)/ Air Force
- (10) NOC from Railway Authority - if applicable.
- (11) Inspection Fees - payable to the Government of Sikkim.

27. Certified that the above statements are correct to the best of my knowledge and understand and that the works was done under my direct supervision, complying with all the provisions of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010 / relevant BIS Standards/Safety Codes.

Date :

Signature :

Place :

Name :

Seal :

(To be signed by the official of the supplier /Contractors/ Supervisor under whose direct supervisions the installation works were done with registration Number of Supervisors Certificate indicating qualifying parts.)

Countersigned by:
Designated officer of Supplier

Contractor with seal
Signature :
Name :
Address :

Witness : (Owner of the installation).

ANNEXURE – I

TEST REPORTS FOR INITIAL CHARGING OF OVERHEAD LINE DETAILS OF EARTHING

(Regulation 41 - 48)

Location of the line : From:

Support No.

To :

Support No.

- NOTE : i) These particulars are required in respect of items 17, 18.3, 22.4, 23.3 and 23.4 of proforma.
ii) General condition of soil at the time of taking the reading should be mentioned in the remark column (Dry – Wet – etc.)

Sl. No.	Earthing for - (mention identification in drawing or in the form like LA, GOS, etc.)	Size and material of earthing conductor paths	No. of independent Earthing conductor path	Detailed size of electrode and material	Impedence of individual electrode	Mention whether electrodes are interconnected	Total impedance of system	Remarks
1	2	3	4	5	6	7	8	9

Measurement taken by

Date :

Signature of authorised Officer

Full Designation & Address With office seal.

ANNEXURE-II

List of materials used in Construction of overhead line.

Name of line/installation & Location :

Sl.No	Materials/Equipments/devices	Rating/Specification	Make	Serial Number	Remarks

Note : Certified copy of type test/acceptance test certificates to be furnished on all equipment/device/materials and relevant drawing on the basis of which test were performed at the respective works.

Signature and seal with date