

**ELECTRICAL INSPECTORATE
GOVERNMENT OF SIKKIM**

APPLICATION FOR COMMISSIONING/ APPROVAL OF ELECTRICAL GENERATING UNITS

[Required under Regulation 32 of the Central Electricity Authority (measures relating to safety & electric supply) Regulations, 2010].

To be submitted to the concerned authorized officer of Inspectorate of Electricity, (Govt. of Sikkim) in duplicate at least 30(Thirty) days before the schedule date of commissioning of the generator. It is however suggested that this application is made sufficiently ahead of schedule date of commission and actual installation works are taken up only as per approved drawing and after obtaining clearance and guidelines from the Inspectorate, to avoid changes that may be necessary after completion of installation work to satisfy the safety and other requirements of Electricity Act, 2003 & Regulations made thereunder.

1. Details of the Applicant :
 - 1.1 Name :
 - 1.2 Manager/Executive or Officer-in-Charge :
 - 1.3 Full Postal Address & Phone No. :
2. Location or the proposed location of Generator(s) with full Postal Address :
3. Detail of Generator(s) :

Sl. No	Capacity(KW/KVA)	Rated Voltage in volts	Make & Serial Number		Make & Serial Number of Generating set.
			Alternator	Turbine/Engine	
1					

(Manufacturer's test reports on engine/turbine, alternator and Generator enclosures to be submitted along with this application. Installation test result to be furnished in enclosed Annexure- I, -II & -III)

4. Whether supply from State Utility/ Discom is available :
If "Yes"
 - 4.1 Total Connected Load :
 - 4.2 Total Sanction Load :
 - 4.3 Date and reference of sanction

- (With name of authority who Sanctioned) :
- 4.4 Name of Electrical
a) Sub-Division :
b) Division :
- 4.5 Total proposed load to be supplied from the generator(s) :
- 4.6 Details of interlock/changeover arrangement provided to prevent accidental paralleling of the generator With the supply system of Grid. :
5. Details of Load proposed to be supplied from the generator(s) :
- 5.1 Motor (AC) :
- 5.2 Light and Fans :
- 5.3 Other (to be specified)
Power Point :
Rectifier :
Fire alarm :
6. Submit the following Drawings in duplicate
- 6.1 Single Line Diagram of the installation :
- 6.2 Physical layout drawing :
- 6.3 Earthing arrangement drawing :
- Note: In the single line diagram, changeover arrangement/interlock arrangement to avoid accidental connection of two different sources of supply need to be clearly shown with rating of all devices/equipment.
7. A Indicate if the generators (in case more than one generator will be installed) will run in parallel or isolated mode. :
7. B Protection used for generator(s) :
7. C Protection used for Turbine(s) :
8. (1) Expected date of starting the installation work:
(2) Expected date of completion of work :
(3) Expected date of commissioning :

In cases installation are already completed detailed test reports will have to be submitted.

9. Name of the contractor person through which the Electrical works connected with the installation is proposed to be done. :
- 10 Name of the person who will be authorised to operate the generator and electrical system connected to the generator, with designation and competency. :
11. Is the matter of installation of Generator intimated to the Supplier ? If so, if any directive/guidelines received from them. :

Certified that all operations/Installations/Erection works in connection with the above mentioned electrical installation inside and in the vicinity of the Power house has been carried out by person authorized under sub-regulation (1) of regulation 3 of the Central Electricity Authority (Measures relating to safety & Electric supply) regulation, 2010.

All the Apparatus, cables & supply lines, Illuminations, Cooling system, DC battery system, Fire protection system, Ventilation system, Emergency exit system, and allied equipments, installations inside the power house has been executed & tested as per the relevant Safety codes/BIS Standards and Central Electricity Authority (Measures relating to safety & electric supply) regulation, 2010, has been strictly followed.

Lift installation in the multi-storied building inside the power house has been maintained and operated as per recommendations in relevant BIS code of practices for lift installation.

It shall be the responsibility of the builder/owner/occupier of the above mentioned installation to maintain and operate the installation in a condition free from danger and as recommended by the manufacturer and/or by the relevant codes of practise of the Bureau of Indian Standards and/or an Electrical Inspector.

Place:

Signature:

Date :

Name:

Designation:

Address:

Note: To be submitted in duplicate.

ANNEXURE -- I

INSULATION TEST RESULT OF A/C GENERATOR

1. Consumer :
2. Installation at :
3. Date of Testing :

Sl.No	Ratings of equipment in KW/KVA	Rated Voltage in volt	Make & Sl. No.		Fuel to be used	Insulation test of A/C Generators in Mega-ohms		Remarks
			Alternator	Engine		Between conductors	Conductors with earth	
1								
2								
3								

Insulation Tester No : _____

Make : _____

Range : _____

Signature of Electrical Supervisor
Certificate No.....

Signature of Electrical Contractor
License No.....

ANNEXURE – -II

TEST RESULT OF A/C GENERATOR EARTHING

1. Consumer :
2. Installation at :
3. Date of Testing :

Details of earthing (Regulation 41, 42) the particulars are required in respect of item 6.3 of the main proforma. The General condition of soil at the time of taking the reading should be mentioned in remarks.

Sl no	Type/ Size installation of equipment Capacity in KW/KVA	Earthing for A/C Generators (mention identification in drawing or in proforma)	Size & Material of Earthing conductor	No. of independent conductor path	Type & size of electrode & length /dia	Impedance of individual electrode in ohm	Mention whether electrodes are interconnected	Total impedance of the system in ohm	Remarks
1	Alternator body								
2	Alternator Neutral								

Insulation Tester No :
Make :
Range :

Signature of Electrical Supervisor
Certificate No.....

Signature Electrical Contractor
License No.....

ANNEXURE-III
CABLE TEST RESULTS

Name of Consumer/Owner/Occupier :
Installation at :
Date of Testing :

Sl. No.	Type of Cable	Rated Voltage	Size in Square m.m.	No. of Core	Length of cable in meter Location	Location		Insulation test result		Remarks
						From	To	Between conductors	Conductors with earth	

Signature of Electrical Supervisor

Certificate No. _____

Valid Upto _____

Insulation tester Details:

Make _____ Sl. No. _____

Range: _____

Signature of Electrical Contractor

Licence No. _____

Valid Upto _____

Signature of Consumer/Owner/Occupier

With Address