



DETAILED IEE REPORT

**CONSTRUCTION OF 400kV SWITCHING STATION AT GOLING,
NANGKOR, ZHEMGANG**

NOVEMBER, 2025

**BHUTAN POWER CORPORATION LIMITED
EGSS, CD, C&PD, BPC**

Initial Environmental Examination (IEE) Form for General Projects -2017

Note 1:	In accordance with section 47 of the Regulation for Environmental Clearance of Projects 2016, consent must be obtained from individual or juristic person if activity has direct impact on a property.
Note 2:	The completed IEE form shall be submitted to the relevant Competent Authority.
Note 3:	The completed IEE form shall be the basis to determine the requirement of Environmental Impact Assessment (EIA). If EIA is required, applicant will be notified to submit Terms of Reference for the project.
Note 4:	The application shall be subjected to Fee Schedules to cover the cost of administering the Environmental Assessment Act, 2000.

1. General Information:

- a) Name of the project: **Construction of 400kV Switching Station at Goling.**
- b) Project Type (Tick as appropriate): ☒ New ☐ Expansion/modification
- c) Applicant Details
 - I. Name of the applicant: **Bhutan Power Corporation Limited**
 - II. Address: **Chubachu (BPC Corporate office), Thimphu**
 - III. Post Box No.: **580**
 - IV. Contact No.: **02-325096/ 325096**
 - V. Fax No.: **02-322279**
 - VI. Email: [hrad@bpc.bt](mailto:hRAD@bpc.bt)
 - VII. Name and contact details of Environmental Focal Person: **Tshewang Choden, Assistant Environment Officer, Contact Number: 17684920**
Email ID: tshewangchoden@bpc.bt

2. Project Location:

- I. Dzongkhag/Thromde: **Zhemgang**
- II. Gewog: **Nangkor**
- III. Village: **Goling**
- IV. Name of the project site: **Goling**

3. Project Cost (Nu.): **2479.34 million**
4. Project area, tick as appropriate:
 - a) ☐ Industrial Area.....acres
 - b) ☐ Industrial Estate.....acres
 - c) ☐ State Reserve Forest.....acres
 - d) ☒ Private: **24.737 acres (BPC Owned Land)**
 - e) ☐ Others.....acres
 - f) Total area required: **24.737 acres**

Note: If the activity is proposed in industrial area /estate, skip sections 5 and 6

5. Terrain characteristic at the project site:
 - a) Elevation (meter): **530 m** above MSL (Lower side of the project area)
 - b) Aspect (direction): **South (Mostly)**
 - c) Slope (degree/%): **19% to 26%** Average slope (West to East direction)
6. Presence of any of the following within and 50 meters buffer of the project area. If yes tick and mention name, wherever applicable:
 - a) ☒ River/spring/stream: **stream crossing Goling farm road**
 - b) ☐ Protected Area.....
 - c) ☐ Catchment area.....
 - d) ☐ Wetland.....
 - e) ☐ Community Forest.....
 - f) ☐ Private Forest.....
 - g) ☐ Tsamdro.....
 - h) ☐ Sokshing.....
 - i) ☐ Agriculture land.....
 - j) ☐ Heritage site.....
 - k) ☐ Hospital.....
 - l) ☐ School/institution.....
 - m) ☒ Roads: **Farm Road to Goling**
 - n) ☐ Industries.....
 - o) ☐ Settlements.....
 - p) ☐ Presence of religious site.....
 - q) ☐ Archaeological site.....

- r) ☐ Others
7. Project Details (attached in a separate sheet):
- a) Project objective:
- ✓ **Enabling the transfer of power from the Mangdechhu and Khorlochhu projects to Jigmeling, Gelephu**
 - ✓ **Strengthening the National Power System**
 - ✓ **Serve as 400kV East-West Interconnection point**
 - ✓ **Additionally, it will be linked to Dorjilung via a 1XD/C 400kV transmission line with a provision for a LILO (Line-In Line-Out) connection at Chamkharchhu- I after 2030.**
- b) Project output: **400kV**
- c) Total built up area (acre): **24.737 Acres**
- d) List of major materials and quantity to be used:
- e) Methods of storing materials:
- The construction materials shall be stored at outdoor storage yard within the project area along with the storage sheds.**
- f) Source of water and total requirement -m³/day: **4.5 m³/ day**
- i. **Bumdagoth Water Source**
- ii. **Moidang Cho Water source**
- g) Source of energy, tick as appropriate:
- ☒ Electricity, if yes, Tapping point: **33kV - Latitude: 27.12788 Longitude: 90.7178 Pole No: ZHE20M123**
 - ☐ Coal
 - ☐ Fossil fuel
 - ☐ Solar
 - ☐ Wood
 - ☐ Others
8. Ancillary activities, tick as appropriate:
- a) ☐ Power line
- b) ☐ Approach Road
- c) ☐ Others

Note: For ancillary activities, fill up relevant IEE forms and submit along with these IEE forms.

9. List type of wastes under each category and its quantity per annum, tick as appropriate:

Types of Solid Waste Materials	Expected Quantity to be generated per day (Kg)	Remarks	Management Method
Food waste, plastics/ packaging material, cardboard & common trash (HOUSEHOLD WASTES)	25.3 Kg/day from the approx. 100 nos. of workers for the SS Project.	As per the National Waste Management Strategy 2019, an average of 0.253 kg/ capita/ day for approximately solid waste will be generated.	Disposed-off to Municipal Solid Waste landfill sites. The waste that can be recycled will be sold off to local scrap dealers.
Wood (timber, slash, stumps, etc.) *	Trees- 12 Pole Size Trees- 1598	As per Forest Field Report.	The tress from the RoW clearing will be handed over to the respective community forest management and NRDCL for extraction and disposal as per the rule.
Metals (Ferrous and Non-Ferrous) including junk and cut-out conductors, optical fibers, and metal structures	2% of all metal-based materials		Transport to scrap/ Metal recycling company and manage as per SOP for waste Management in DHI & DHI Companies 2020, BPC's Waste Management Plan 2021, BPC's Guidelines for disposal of optical Fiber Waste/ e-waste, and all other relevant Waste Management policies of the country.
Concrete Debris	2% concrete debris from the proposed project	Waste from the construction sites	Use of road sub-base materials or used for concrete pavement foundation for tower foundation.

Excavated Spoils	Excavated spoils form the project area		Loose excavated soil shall be covered and more than 90% of the excavated soil shall be reused for backfilling and landscaping.
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10. Provide maximum noise level at the project boundary during operation, if applicable:

11. Environmental Management Plan (attached in a separate sheet):

Briefly describe mitigation measures to address impacts including sections 9 and 10

12. List of documents to be attached with this IEE form:

1	Public consultation records verified by the concerned local authority
2	Layout plan and KMZ file depicting entire layout plan

Note: If the activity is proposed in the industrial area/estate, list of documents from 1 to 3 are not required.



Name and signature of the project proponent: Tshewang Choden, Assistant Environment Officer

Address: EGSS, CD, C&PD, BPC, Thimphu

Date: 07.11.2025