

**Initial Environmental Examination (IEE) Form for Transmission and Distribution 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: **Kilikhar Substation Project**
 - I. Voltage level in kV: **132kV**
- b) Project Type (Tick as appropriate): **Expansion/modification**
- c) Applicant Details:
 - I. Name of the applicant: **Bhutan Power Corporation Limited**
 - II. Address: **Chubachu (BPC Corporate Office), Thimphu, Bhutan**
 - III. Post Box No: **580**
 - IV. Contact No.: **02-325095 (906)**
 - V. Fax No.: **02-337213**
 - VI. Email:.....
 - VII. Name and contact details of Environmental Focal Person: **Jigme Sonam, Assistant Environment Officer, CMS, BPC**

2. Project Location:

- I. Dzongkhag/Thromde: **Mongar**
- II. Gewog: **Mongar**

III. Village: **Kilikhar**

IV. Name of the project site: **Kilikhar**

3. Project Cost (Nu.): **Nu. 21,891,854.17**

4. Project area, tick as appropriate:

a) State Reserve Forest:

S.N	Line		Area (acre)
	From	To	
1	132kV S/C Kilikhar-Tangmachu tower no. KL003	132kV S/C KilikharKanglung tower no. KK04	1.69
2	132kV S/C Kilikhar-Kanglung TL tower no. KK06B	132/33kV Kilikhar SS	4.18
		TOTAL	5.87

b) Private.....acres

c) Others.....acres

d) Total area required: **5.87 acres**

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.....

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: **Agriculture Research & Development Farm**

m) Roads: **Mongar-Trashiyangtse-Trashigang PNH**

- n) Industries.....
- o) Settlements: **03 Households**
- p) Presence of religious site.....
- q) Archaeological site.....
- r) Others

6. Project Details (attached in a separate sheet):

a) Project objective:

The realignment of the existing 132kV S/C Kilikhar-Kanglung and 132kV S/C Kilikhar-Lhuntse Line is being carried out to accommodate the power evacuation from the upcoming Yungichu HPP to the 132/33kV Kilikhar Substation, Mongar.

b) Length of transmission /distribution line in km:

S.N	From	To	Length (km)
1	132kV S/C Kilikhar-Tangmachu TL tower no. KL003 (Kilikhar Buddhist Institute) Easting: 374560.875 Northing: 3017512.529	132kV S/C Kilikhar-Kanglung tower no. KK04 (ARC farm) Easting: 374834.618 Northing: 3017427.832	0.254
2	132kV S/C Kilikhar-Kanglung TL New tower insertion from KK07. Easting: 375226.66 Northing: 3017908.875	132/33kV Kilikhar Substation. Easting: 328334.48 Northing: 3016568.46	0.628

c) Right of Way in meters: **27m**

d) Tower types and numbers: **DC Type (5 Nos.)**

e) Methods of storing materials:

S.N	Store Yard	GPS Coordinates		Land Ownership
		Easting	Northing	
1.	132/33kV Substation Kilikhar	328334.48	3016568.46	BPC owned Land

f) Does the proposed transmission/distribution line passes through:

- I. Avi-fauna migratory routes: **No**
- II. Heritage or religious site: **No**
- III. Wetland and catchment area: **No**
- IV. If yes for any of the above, provide alternatives

7. Ancillary activities, tick as appropriate:

- a) Substation:
- b) Approach road
- c) Ropeway
- d) Others

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

8. List type of solid wastes and its quantity:

The type of solid wastes generated would be;

Types Of Solid Waste Materials	Expected Quantity to be Generated per day (kg)	Remarks	Management Method
Food waste, plastics/packaging materials, cardboard, & common trash (HOUSEHOLD WASTES)	25.3 kg/day from approx. 100 nos. of workers during the project construction phase.	As per 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 sent to Recycling Facility, if such facility is available in the locality

Wood (timber, slash, stumps, etc.) *	69 trees and 28 pole size trees	As per the Forest Field Report.	The trees cut from the RoW clearing will be handed over to the respective community forest management and NRDCL for extraction and disposal as per the prevailing rule.
Metals (Ferrous and Non-Ferrous) including junk and cut-out conductors, optical fibers, and metal structures.	2% of Tower pylons & conductors waste.	Waste from the 5 nos. of towers with approx. 1 km s/c conductors.	Transport to scrap/Metal recycling company and managed 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	1% concrete debris from the proposed project	Waste from the construction sites	Use as road sub-base material or used for concrete pavement foundation for Tower Foundations. Existing concrete pads and foundations will be managed on a case-specific basis depending on the type of waste and the location of the waste within the locality.
Excavated Spoils	Excavated spoils from the 5 nos. of tower pit foundations.		Loose excavated soil shall be covered and more than 90% of the excavated soil shall be reused for backfilling the tower pits.

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

Briefly describe mitigation measures to address impacts including section 8

10. 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

Name and signature of the project proponent:



Jigme Sonam, Assistant Environment Officer

Address: **Contract Management Section, Construction Division, C&PD, BPC, Thimphu**

Date: **22/05/2024**