

**Initial Environmental Examination (IEE) Form for General/ Commercial/
Residential Sector Projects**

1. General Information

- a) Name of the project:
- b) Proposal for new project/expansion of existing project :
- c) Name of the project proponent with following details
 - i) Name of the applicant
 - ii) Address
 - iii) Phone/Fax
 - iv) Email

2. Location of the project (Dzongkhags/ Geogs/ Thromdes)

3. Geographical details

i) Latitude

ii) Longitude

iii) Elevation above Mean Sea Level

4. Cost of the project

5. Does the project falls in NotifiedIndustrialArea/Estate (Yes/No):

If yes, then:

- a) Total land required for the project (in ha)

If no, then:

- b) Describe the total land requirement as well as the current land use pattern of the proposed project site under the following headings:

i) Agricultural

ii) Government

iii) Forest

iv) Private

v) Others

Total

- c) If it is private land, and if land acquisition is involved then

- i) Number of families or households likely to be displaced:

- ii) Number of houses likely to be demolished:

6. Alternative sites considered (not applicable for projects coming in notified industrial area/state)

- i) _____

- ii) _____

- iii) _____

- iv) _____

State the reasons for selecting the proposed site:

7. Describe whether proposed land use is as per approved Master Plan/ Development plan of the area. If there is no approved plan, the consent from appropriate authority should be taken and should be submitted along with IEE form or at the time of Environmental Clearance. If an area is outside municipal limits/ outside planning area, a full justification for the proposed development should be provided.
8. Describe the terrain characteristic at the project site and in surrounding area:
9. Presence of any of the following within the study area (core and buffer area) of the project
 - a) River
 - b) spring, stream, water crossing
 - c) Flood plain, if applicable
 - d) Forest, then status of forest
 - e) Wildlife Habitat
 - f) Habitat of endangered/threatened/endemic species
 - g) Others
10. Presence of any of the following within the study area (core and buffer area) of the project
 - a) Historical site
 - b) Defense installation
 - c) Hospital
 - d) Presence of religious site or archaeological site
 - e) Any others sensitive receptors

Note: The Study area will be decided by NEC/CA

11. Is the proposed site located in a low-lying area?

Yes No

If yes,

i) Level before filling (above MSL, in metres) _____

ii) Level after filling (above MSL in metres) _____

Quantity of Fill Material required (incum.)	Source

12. Does the project require cutting of trees?

Yes

If yes, please furnish the following details:

iii) How many trees are proposed to be cut?

iv) Species of the above trees

v) Are there any protected/endangered species?

Yes

No.

If yes, provide details:

13. Numbers of vehicles likely to be increased during project's construction/operation, if applicable:

14. Description of existing infrastructure such as, roads, educational facility, health centre, other industries, commercial area etc. in the project study area

15. Project details

- a) Type of project (industrial/commercial/residential/ waste management etc)
- b) Describe the project activities
- c) Technology to be used
- d) Provide the following details, wherever it is applicable

- i) Total site area
- ii) Total built up area (provide area details) and total activity area
- iii) Source of water and total water requirement (m³/day)
- iv) Source of energy and total energy requirement
- v) Parking/Stockyard requirements

16. Describe the list of raw materials to be used in the manufacturing process, their daily consumption, sourcing, and methods of storage.

17. Describe list of hazardous chemicals, toxic or inflammable substances (including carcinogenic materials) to be used in the process, if yes, then specify

- a) Type of material
- b) Daily requirements
- c) Storage methods
- d) Details of waste types (solid/liquid and gas) including the quantity and characteristic of waste, if any.

18. Employment potential in term of numbers, during construction and operational stage including the daily or average working hour:

Table 1: Sensitivity of the project site and adjoining areas

S.No	Information/Checklist confirmation	Yes/No	Distance from the project site with proper explanation and provide supporting documents wherever applicable
	Protected areas under international conventions, national or local legislation for their ecological importance		
	Project will affect the access of people to common resources. For example, the site was initially used as common grazing land, or fishing pond, or source of revenue for local community/ community forests etc.)		
	Risk to aquatic flora and fauna due to release of wastewater		
	Project site or adjoining areas used as routes by the public/tourists /pilgrims to access recreational/tourist site or pilgrimage areas in the vicinity		
	Project site or adjoining areas occupied by sensitive man-made land user (<i>schools, park, playground/religious site/community</i>		

	<i>facilities)</i>		
	Project site or adjoining areas already subjected to pollution or environmental damage. <i>(Where existing legal environmental standards have exceeded)</i>		
	Areas susceptible to natural hazard such as <i>earthquakes, subsidence landslides, erosion, flooding or extreme or adverse climatic conditions</i>		

Table 2: Change in physical structure (topography, land use, changes in water bodies, etc.) due to construction and operation of the development project

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data/ provide explanations, wherever applicable.
	Potential to cause permanent or temporary change in land use, land cover or topography.		
	Will the project involve clearance of existing land vegetation?		
	Will the project involve demolition of the existing structure?		
	Will the project operation/activities trigger land disturbance, erosion, subsidence and instability		
	Will the project involve construction of new road during construction and operation?		
	Will the project involve closure or diversion or realignment of existing natural drain?		
	Potential to increase influx of people either temporarily (workers) or permanently to an area?		
	Will the project involve abstraction or transfers of water from ground or surface water?		

Table 3: Use of resources for construction or operation of the project (such as land, water, materials or energy)

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data/ provide explanations, wherever applicable.
	Expected quantity of water to be used by the project during construction and operation including source of water		
	Expected Quantity of construction materials to be used – stone, aggregates and soil (in MT) and mode and place of sourcing.		
	Energy requirement – electrical energy (in kWh) and fuel (coal, gas, diesel others in tonnes) and mode of sourcing.		
	Any other resources (use appropriate standard units)		

Table: 4 Production of solid wastes and liquid during project construction and operation

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data/ provide explanations, wherever applicable.
	Will the project have potential to generate solid wastes, if yes, then specify types and quantity of wastes, wherever it is applicable		
	Will the project have potential to generate sewage sludge, wastes such as domestic and commercial wastes		
	Will the project have potential to produce hazardous waste from process, treatment plant and other allied activities?		
	Any other wastes (specify)		

Table: 5 Air pollution and emissions

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data/ provide explanations, wherever applicable.
	Location of project in an industrialized area where there are		

	other sources of air pollutants		
	Will the project have potential to alter ambient air quality during construction and operation?		
	Emissions from production processes and/or utilities, specify the type of pollutants, if applicable.		
	Potential to generate odour from handling, storage, process and operation of pollution control equipments.		
	Emissions from incineration of waste, if applicable. If yes, specify the type of pollutants.		
	Potential to generate fugitive emissions		
	Potential to release gaseous pollutants, if yes, then specify		
	Will the project have potential to release toxic gas from handling, transport, storage and its use?		
	Any other emissions, specify		

Table 6: Generation of noise

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data/ provide explanations, wherever applicable.
	Will the project have potential to alter the ambient noise due to the following listed activities <ul style="list-style-type: none"> • Construction of project • Plant operations • Increase in traffic 		
	Will the project have potential to increase the risk of occupational noise hazard or cause disturbance to adjoining human settlements?		
	Any other potential sources that may cause occupational hazard, specify.		

Table 7: Risks of contamination of land or water from release of pollutants into the sewers, surface waters and groundwater

S.No	Information/checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data/ provide explanations, wherever applicable.
	Located in potential erosion/landslide prone area		
	Will project activities increase the sediment load in the local water bodies?		
	Potential to contaminate land and water due to handling, transport, storage of raw material/chemical or hazardous substances		
	Discharge of sewage or other effluents to water or land (expected mode and place of discharge)		
	From any other sources, specify		

Table 8: Risk and disaster

S.No	Information/checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data/ provide explanations, wherever applicable.
	Activities/operations or processes leads to fire risk/ explosion/ electrocution and others.		
	Risk of road accident		
	Any other risk, specify		

Table 9: Information on Socio-economic environment

S.No	Information/checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data/ provide explanations, wherever applicable.
	Will the project involve land acquisition?		

	Will the project impacts the common/local community resources such as grazing land, fishing area, source of drinking water, play ground, recreational place, religious or historical site etc.		
	Project would likely to improve the social infrastructure of an areas (schools, hospitals and roads)		
	Will the commissioning of project significantly improve the lifestyle and increase employment opportunities?		

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

1	Layout plan of the project
2	Summary of the project proposal
3	No objection certificate from various departments and others relevant stakeholders (applicable if EA is not required)
4	Environment Management Plan (applicable if EA is not required)

20. Declaration certificate stating with name & signature of project proponent

Seal:

Signature of the project proponent

Name:

Address:

Phone:

Date: