

**APPLICATION FOR ENVIRONMENTAL  
CLEARANCE  
GUIDELINE FOR TOURISM**

**National Environment Commission  
Royal Government of Bhutan  
August 2004**



དཔལ་ལྷན་འབྲུག་གཞུང་།  
རྒྱལ་ཡོངས་མཐའ་འཁོར་གནས་སྤངས་ལྷན་ཚོགས་ཡིག་ཚང་།  
**ROYAL GOVERNMENT OF BHUTAN**  
**NATIONAL ENVIRONMENT COMMISSION SECRETARIAT**

FOREWORD

In 1999, the National Environment Commission with technical and financial assistance from the Asian Development Bank (ADB) published six sectoral environmental assessment guidelines for the mining, roads, industries, hydropower, transmission lines and forestry sectors. Several stakeholder consultation workshops and seminars were conducted before the guidelines were published. These guidelines were intended to guide different project proponents through the process of acquiring an environmental clearance for their projects. The Environmental Assessment 2000 (EA Act 2000) was passed by the National Assembly in 2000 and the Regulations under the Act were adopted two years later. Stakeholder feedback and our experiences in implementing the EA Act and the guidelines indicated that there was a need to revise the guidelines in order to make them more practical and relevant to the Bhutanese context and also to streamline them with the provisions of the EA Act 2000. It was also felt that there was a need for two more sectoral guidelines for urban development and tourism as rapid developments in these two sectors was becoming a concern for Bhutan. Therefore, in 2003 the NEC once again revisited these guidelines and revised and updated them to make them more practical and functional documents. Several Environmental Codes of Best Practices (ECOPs) have also been produced to support these environmental assessment guidelines.

The NEC is grateful to the ADB for being so forthcoming with technical and financial assistance to revise and update these guidelines. The revision and updating of these guidelines were accomplished through close consultation with all the various stakeholders. We would also like to express our gratitude and appreciation to all the line ministries and stakeholders for their active participation, support and inputs. We are confident that the revised guidelines will be more useful documents that facilitate and expedite the environmental clearance process as project proponents will now have a better understanding of what information must be provided in order to attain an environmental clearance.

In Bhutan, environmental conservation has been embraced as one of the four pillars of Gross National Happiness - the other three pillars being good governance, socio-economic development and cultural preservation. However, with the expansion of developmental activities in the country, it is becoming very difficult to strike a sustainable balance between environmental conservation and socio-economic development. The number of industries is on the rise every year

while the demand for rural access to market facilities in the form of farm roads and feeder roads is increasing with every Five Year Plan - in the 9th Five Year Plan alone there is a plan to develop 588kms of farm roads. Environmental issues such as waste disposal related to urbanization are also becoming serious concerns for Bhutan. Bhutan is lauded by the international community for its sound environmental policies and the political will to implement these policies. However, environmental problems are becoming more and more visible and instruments like the EA Act 2000 must be implemented effectively to support the government's sound environmental policies and to ensure that Bhutan remains clean and green.

The environmental assessment process endeavors to mitigate and prevent the undesirable impacts of developmental activities. It is in no way intended to hamper socio-economic development in Bhutan but to guide project proponents in making the right investments in land, manpower, technology and mitigation measures to ensure that their projects have the least possible impacts on the environment. With the revision and updating of the old guidelines and the publication of two new guidelines on Urban Development and Tourism and relevant ECOPs, the NEC is hopeful that the private sector, line ministries and competent authorities under the Regulations for Environmental Clearance of Projects find the guidelines more useful, practical, informative and easy to comply with. It is the sincere wish and hope of NEC that all the stakeholders, both public and private will make the best use of these guidelines, which in turn will help in protecting our fragile ecology. Sound implementation of these guidelines will go a long way in minimizing the negative impacts of developmental activities on Bhutan's environment.



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## 1 Glossary

*Affected people:* individuals, groups of people, communities or other organizations whose interests may be directly affected by the location, construction and operation of the project

*Agency:* a ministry, department, municipality established under the Bhutan Municipal Act, 1999 or any autonomous body of the Royal Government of Bhutan

*Applicant:* a person seeking an Environmental Clearance from a Competent Authority or from the National Environment Commission

*Application:* is the output of this guideline which is submitted to either the Competent Authority or the NEC for approval

*Competent Authority:* any agency of the Royal Government that has the power to issue an Environmental Clearance for a project

*Cultural Heritage:* tradition or culture that should be preserved for future generations

*Development Consent:* the approval that is issued or renewed by a Competent Authority in the form of a licence, lease or permit for land use or construction. The Development Consent can only be obtained after the Environmental Clearance has been issued

*Environmental Assessment:* all procedures required under Bhutanese law to identify means to ensure that the activities of a project are managed in an environmentally sound and sustainable way

*Environmental Clearance:* the decision issued under Chapter III of the Environmental Act, 2000, that is issued in writing by

the National Environment Commission or the Competent Authority, to let a project proceed. The Environmental Clearance includes terms and conditions which the Applicant or Holder of the Environmental Clearance must abide by to ensure that the project is managed in an environmentally sound and sustainable way

*Environmental Management Plan:* a plan which addresses the ways of mitigating and monitoring the impacts that have been identified by the environmental assessment. The Environmental Management Plan may comprise part of the terms and conditions of the Environmental Clearance that is issued either by the Competent Authority or by the National Environment Commission

*Environmental Parameter:* a component of the surrounding environment which may be altered by a project activity. This includes physical interventions or releases to air, water and soil which may in turn affect vegetation, wildlife, human and aquatic communities

*Environmental Terms:* the requirements and conditions that a project must comply with, as stated in the Environmental Clearance issued either by the NEC or the CA

*Environmental Unit:* a management unit that is established within a project structure that is responsible for implementing, monitoring and reporting on the Environmental Terms attached to the Environmental Clearance

*Forest:* any land or water body, whether or not under vegetative cover, in which no person has acquired a permanent and transferable right of use and occupancy, whether such land is inside or outside the forest boundary pillars, and includes land registered in a person's name as *Tsamdo* (grazing land) or *Sokzhing* (woodlot for collection of leaf litter)

*Holder:* the recipient of an Environmental Clearance under Chapter III of the EA Act, 2000

*Land acquisition:* the acquisition of any land, constructions or other property in accordance with the procedures established under the Land Act, 1979 (or successor legislation)

*Monitoring:* a program of systematic measurement or observation of environmental and social parameters. Monitoring requirements includes regular reporting and specifies action to be taken if non-compliance occurs. Monitoring requirements are specified in the Environmental Terms which is attached to the Environmental Clearance. Monitoring consists of *Baseline monitoring* which is carried out prior to a project commencing. Baseline monitoring measures the existing environment and this is compared to later monitoring which establishes the effects caused by the project. *Compliance monitoring* refers to a system of regular measurements which compares releases from an activity to those that have been specified in the Environmental Terms. Permitted releases are established in environmental discharge standards, 2004

*Municipal Corporation:* a Corporation incorporated under the Bhutan Municipal Act, 1999, to implement the provisions of that Act for the benefit of the residents of a community classified as a Municipality by the Royal Government

*Non-listed project:* all projects that are not listed in Annex 2 of the Regulation for the Environmental Clearance of Projects, 2002 including its most recent update

*Project:* an activity which may have significant effects on the environment

*Project area:* the area that includes the immediate and the proximate area of a project that the project may have an environmental or social impact on

*Protected Area:* is an area which has been declared to be a national park, conservation area, wildlife sanctuary, wildlife reserve, nature reserve, strict nature reserve, research forest, critical watershed or other Protected Areas for the preservation of areas of natural beauty of national importance, protection of biological diversity, management of wildlife, conservation of soil and water and related purposes

*Screening:* the review process carried out by the National Environment Commission or by the Competent Authority of the Application with regard to whether the project may be (i) issued with an EC (ii) rejected or (iii) require further environmental assessment

*Sustainability:* development that recognises the need to raise the living standards of the present population without compromising the country's resource base, cultural integrity, historical heritage or the quality of life of future generations

*Wildlife:* includes all mammals, avians, reptiles, amphibians, fishes and invertebrates



## 2 INTRODUCTION

In 1999 the National Environment Commission (NEC) approved six sectoral environmental guidelines on (i) Forestry, (ii) Highways and Roads, (iii) Hydropower, (iv) New and Existing Industries, (v) Mines and Mineral Processing and (vi) Power Transmission Lines. In 2000, the National Assembly passed the Environmental Assessment Act and in 2002, the government approved the Regulation for the Environmental Clearance of Projects (the Regulation). Under the Regulation, both the National Environment Commission (NEC) and the designated Competent Authorities (CA), which are listed in Annex 2 of the Regulation, are authorized to issue Environmental Clearances for projects.

Applicants, CAs and the NEC found the six sectoral guidelines developed in 1999 cumbersome and difficult to comply with. This often led to delays in issuing environmental clearances and therefore the execution of projects. In order to ensure that these guidelines address the requirements of the *Environmental Assessment Act, 2000* and the *Regulation for the Environmental Clearance of Projects, 2002* while at the same time keeping them simple and easy to follow, the NEC, with financial and technical assistance from the Asian Development Bank (ADB), has revised the six guidelines and also developed two new sectoral guidelines: one for tourism and the other for urban development.

The NEC had the overall responsibility for coordinating the program, which was directed by Mr Karma C. Nyedrup of the Environmental Assessment Section. The assistance of numerous officers within the NEC and the following consultants; Karma Jimba, Sonam Tobgay and Charles Adamson is gratefully acknowledged.

This guideline has been developed in close consultation with the relevant agencies that are involved in developments in the tourism sector with the intention of making it easier to

use. The guideline also integrates requirements needed by other agencies that are involved in approving the project.

Article 9 of the Environmental Act, 2000 states that if the activity is going to be implemented by a Competent Authority, then the Application for Environmental Clearance is to be forwarded to the NEC for approval.

### **3 INFORMATION REQUIRED FOR PREPARING AN APPLICATION FOR THE ENVIRONMENTAL CLEARANCE OF A PROJECT**

The Application for Environmental Clearance (EC) of a project<sup>1</sup> is hereinafter referred to in this Guideline as the “Application

1. Issuance of an Environmental Clearance is a prerequisite to the issuance of a Development Consent. (Ch II, article 8, Environmental Act, 2000)
2. The Competent Authority under the Ministry of Trade and Industry will issue the Environmental Clearance for projects that are defined in Annex 2 of the Regulation for the Environmental Clearance of Projects, 2002<sup>2</sup>
3. The purpose of the Application is to assist the CA or the NEC review the project and to determine the level of environmental assessment required. It is therefore, important to provide concise and accurate information when completing the Application. When quantifying the environmental impacts, avoid using subjective statements such as “*the project will have minimal environmental impact*”
4. One of the main reasons for delays in making a decision to either issue environmental clearance or reject the Application is lack of adequate information in the Application. If the required information is not provided in detail, the CA or the NEC will have to seek further clarification from the Applicant which extends the review process

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<sup>1</sup> To establish a project without an Environmental Clearance, or to provide false, misleading or inaccurate information shall be an offence under Article 49 of the EAAct, 2000 and Section 36 and 37 of the Regulation for the Environmental Clearance of Projects, 2002.

<sup>2</sup> Each year the NEC requests the various Competent Authorities to review and add projects to Annex 2. Thus while the Regulation was issued in 2002, Annex 2 has and will continue to be revised. The latest issue of the Regulation needs to be referred to for the most recent update of Annex 2.

5. If the Application is subject to further environmental studies, the Applicant will need to submit the Terms of Reference for the subsequent detailed investigations to the NEC for approval (*Article 15, Env Act, 2002*)
6. If any section is not relevant to your project, explain why and proceed to the next section
7. The numbering of sections for the Application should start from 1. Persons completing the Application are not obliged to maintain the same numbering sequence as used in the Guideline

### **3.1 Applicant/s details**

Information that should be provided are:

1. Name of the project
2. Name of the Applicant
3. Present mailing address including telephone number, fax, and email (if any)
4. Name of the environmental focal person<sup>3</sup>
5. Qualification/designation of the focal person
6. Telephone number of environmental focal person
7. If the Application is prepared by a consultant, give the name and contact details for the company that prepared the Application

### **3.2 Project Objectives**

Clearly describe the main objective/s of the project.

### **3.3 Overall Planning**

1. Provide the expected date when the project will be initiated. Some of the activities that may be involved at this time are: site clearing, topsoil removal, construction of approach road, internal roads, facilities, etc.

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<sup>3</sup> Section 23 of the Regulation for the Environmental Clearance of Projects, 2002, may require the Applicant to delegate a focal person to ensure compliance with the terms of the Environmental Clearance. While Section 24 of the Regulation, requires that depending on the size of the project, the project may need to establish an environmental unit responsible for ensuring compliance with the terms of the Environmental Clearance.

2. Provide the date when the project is expected to commence operation. (iii) Attach an organizational chart of the project for the operation period that identifies the position of the person who will be responsible for overseeing the environmental program

### **3.4 Funding and Costs**

Provide the total project cost in Ngultrums.

Out of the total project cost, what percentage is budgeted for environmental management?

### **3.5 Project Details**

#### **3.5.1 *Project Description***

Indicate the type of project e.g. camping site, trekking route, hotel, resort or others. Indicate the size of the development e.g. 24 bed tourist class hotel, 22-person campsite.

#### **3.5.2 *Project Location***

Provide details of the project location by naming the Dzongkhag and Geog.

#### **3.5.3 *For Campsites:***

- a. Provide a site plan of the camp area that shows the layout of the site (campsites, toilet and washing areas, grazing areas for horses or yaks). Show on the plan the proximity and type of forest, watercourses, and direction to villages and the direction of slope. Show north and the scale of the site plan
- b. Provide the geo-reference (use an appropriate datum) for the location of the campsite and height of the campsite

- c. Identify the maximum number of people that will be accommodated within the campsite. This includes tourists and tour support staff
- d. Show which months of the year the campsite will operate
- e. The applicant must identify whether the project is located within the proximity of any cultural or heritage listed in the inventory of the Department of Cultural Affairs (DCA). This information can be obtained from the DCA
- f. A general description of the environment of the surrounding area.
- g. Is the campsite located within a Protected Area
- h. State the type of sanitation facilities that will be provided
- i. State the source of water supply for the camp
- j. State how solid waste will be disposed. Regulations require that all solid waste be carried out of the area, (except toilet waste where a pit toilet must be constructed)
- k. State the source of fuel for the campsite. Regulations also prohibit the use of local fuel wood for cooking, heating and lighting

#### **3.5.4 *Trekking Routes***

- a. Plot the trekking route and its start and finish points on a contour map. Identify significant features of the trail such as pass heights, camping areas, villages, location of road head etc.

- b. State how many km of trekking route is proposed for development
- c. State the width of the trail. The minimum width is 3 feet for mule tracks
- d. Provide a general description of the trail route. Start at 000m and prepare a table that shows the distance and elevation that applies to a particular feature Start 000m (el 3,100m) – 550m (el 3,400m), trail rises through blue pine forest 550m (el 3,400m), pass 550m (el 3,400m) – 1,200m (el 3,000m), trail descends through mixed broadleaf conifer forest 1,200m (el 3,000m), 30m long rope bridge to be built across \_\_\_ (name of water course)
- e. Provide details of any other structures that will need to be provided e.g. bridges.
- f. If the trail passes through a Protected Area, the boundaries of the Protected Area must be shown on the map relevant to the trail route. Name the Protected Area.
- g. Will other people, e.g. local communities, use the trail? Provide details as to which communities and the purpose of use
- h. Describe methods that will be used to prevent erosion and maintain the track surface of the trail

### **3.5.5 *Hotels and Resorts***

- a. Provide a site plan of the hotel or resort that shows the layout of the hotel/resort together with support facilities e.g. access road, car parks, buildings, fuel tanks, water and electricity supply etc. Indicate the scale of the site plan, the slope and north

- b. Provide the geo-reference (use an appropriate datum) for the location of the hotel/resort and the height of the hotel/resort (nearest 20m)
- c. Provide a general description of the surrounding environment.
- d. Provide details of access required.
- e. Provide details of the source of electricity
- f. Show the amount of fuel and lubricants that will need to be stored at the hotel/resort and where these will be stored
- g. Show where water will be obtained from
- h. Show how the water will be heated
- i. Explain how spoil material generated from construction will be disposed off
- j. If the project is located within a Protected Area, the location of the project must be shown on a map, together with the Protected Area boundaries
- k. Describe how liquid and solid waste that is generated from the hotel/resort will be treated

### **3.6 Consultations**

Provide details of public consultation held with affected people.

The Applicant must explain to the affected people the expected impacts of the development, where they will occur and how they will be mitigated. Provide a record of the meeting/s and attach a list of the names of the affected people together with the date of consultation/s, details of their Geog



and village, issues raised by the people and the agreements arrived at between the Applicant and the affected people to resolve these issues. Provide signatures or other proof of consultation/s with the affected people. Describe issues that remain unresolved.

### **3.7 Aesthetics**

Where careful architectural design has been used it is possible that the project may enhance the aesthetics of the surrounding environment and improve the existing visual image. On the other hand, if the development creates adverse visual impacts by protruding into or disturbing the landscape or surrounding environment, mention measures that may be used to minimise this impact.

### **3.8 Occupational Health and Safety**

Mention how occupational health and safety issues will be addressed for workers during (i) construction and (ii) during the operation of the project.

### **3.9 Project Impacts and Mitigation Measures**

From the information provided in the preceding sections, identify the impacts that will occur from these activities and list them in a tabular format similar to that shown below. Impacts can occur from: (i) the *Location* of the project, (ii) the *Design* of the project; (iii) from *Construction* related activities and (iv) from *Operation* of the project. For each negative impact provide mitigation measures and the approximate cost required to implement the mitigation measure.

Type of Negative Impact	Possible Mitigation Measure/s	Estimated Mitigation Cost (Nu)
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The Applicant will be responsible for ensuring that the Environmental Terms that are attached to the Environmental Clearance are carried out. These become the responsibility of the Holder of the Environmental Clearance. Where a Contractor is employed the Holder will be held responsible for ensuring the Contractor abides by the Environmental Terms. The Environmental Terms are to be attached to the Contract Document so that the Contractor has a clear understanding of the environmental requirements that are to be adhered to during construction. At the time of tendering, the Contractor will be required to prepare a Contractor's Site Environmental Management Plan (CSEMP) that shows how the Contractor will implement the Environmental Terms that are included as part of the Tender Specifications. The CSEMP is to be included as part of the Contract Documents and is to be evaluated as part of the overall tender. The NEC can assist with information in this area.

The Applicant will also have to provide the following plans if these are relevant. These are to be attached to the Application.

- i. The Land Compensation and Resettlement Plan
- ii. Worker Health and Safety Plan

### **3.10 Monitoring Program**

Monitoring responsibilities including other provisions that the Applicant/Holder and Contractor will need to address at the time of submitting a tender for the work will be included as part of the Environmental Terms which will be attached to the Environmental Clearance.

Regular monitoring will be the responsibility of the Holder of the Environmental Clearance and will also be detailed in the Environmental Clearance.

Either the CA or the NEC may conduct unannounced monitoring and checks.

### 3.11 Checklist for No Objection Certificate

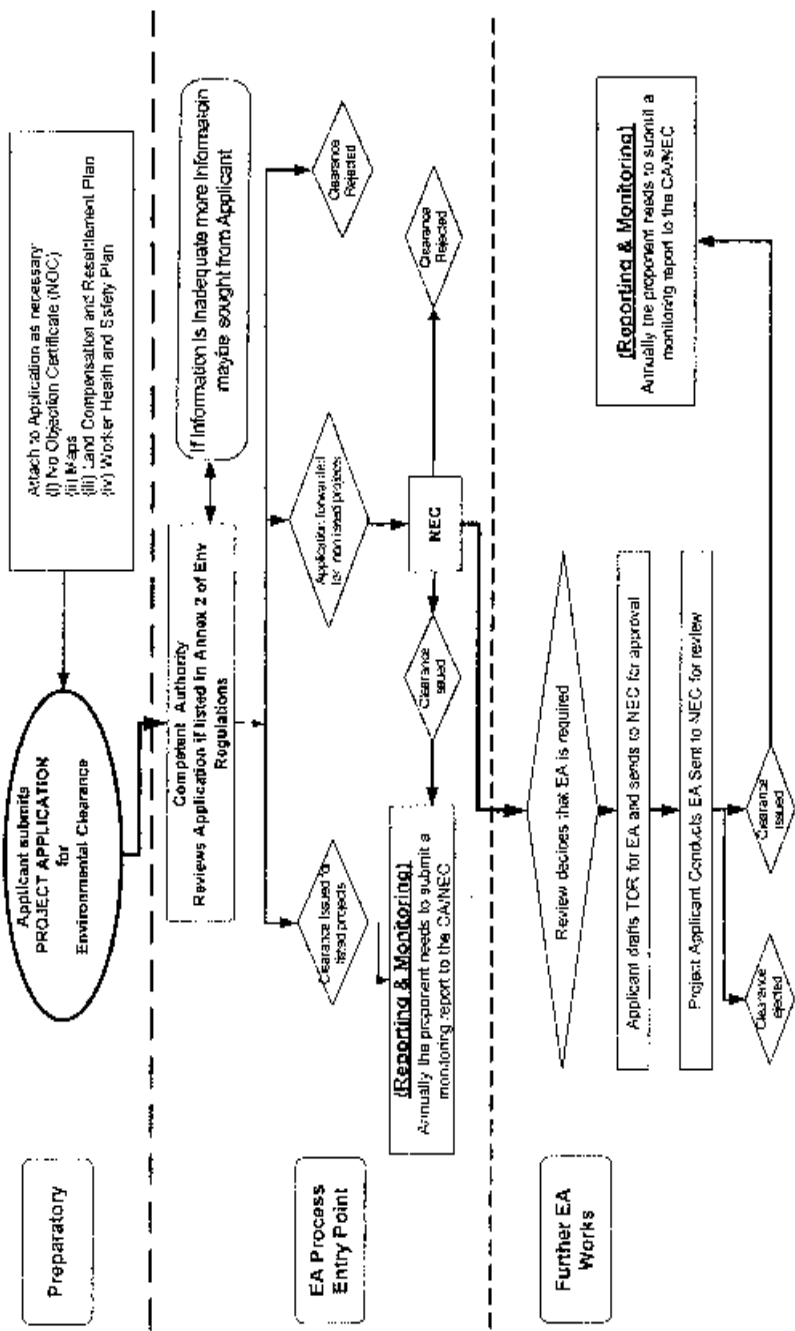
In order to obtain an Environmental Clearance for the project, NOC must be obtained from all relevant parties. Attach these documents to the Application. Below is a checklist of agencies from whom NOCs may be required.

Agency/concerned people to issue NOC	Why/when
Dzongkhag/City Corporation	Dzongkhag Administrative approval or City Corporation/MOWHS
DoF	Should the project damage or acquire <i>Sokshing/Tsamdo</i>
Department of Culture	Should the project be located within 50m of a cultural or religious site
Nature Conservation Division	Within boundary of a Protected Area
Municipal Authority	Within 50m of a public park
Private owner	Within 50m of a human dwelling
Private property owners	Should the project need to acquire private property
Department of Health	Within 50m of hospital
Department of Education	Within 50m of school
Department of Energy	Should the project require the relocation of power transmission line
Bhutan Telecom Authority	Should the project require relocation of telephone lines
Department of Roads	Should the project require access from highways and feeder roads.

#### **4 ENVIRONMENT ASSESSMENT PROCEDURES**

A flowchart is attached showing how the Application for Environmental Clearance will be processed.

# ENVIRONMENTAL ASSESSMENT PROCEDURE FOR TOURISM PROJECTS



Note: For environmental assessment timeline refer Annex 1 of the EA Regulation 2002