



**Environmental Authorization Form
(Under Antarctic Treaty System and
Environmental Protocol)**
For executing those activities which requires Environmental Evaluation



Version: 3.0 August 3, 2021

Protection of Antarctica

India's accession to Instrument of Antarctica Treaty executed in 1983, thereafter, signing Madrid Protocol also known as Environmental Protocol (Protocol on Environmental Protection to Antarctica Treaty) in the year 1998 (adopted in 1991, enforced in 1998), affirms comprehensive protection of Antarctic Environment and its dependent and associated ecosystems.

Environmental Authorization and Permits required under *Protocol on Environmental Protection to the Antarctica Treaty (Madrid Protocol)* for commencing activities south of 60 degrees south and marine area under the *Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR)*.

The form is required for: Proponent/s willing to execute any activity which requires environmental evaluation within Antarctica Treaty Area including CCAMLR area.

Applicable to:

- Indian Antarctic Expedition Member/s as well as other organization/s or any citizen of India, undertaking activities in the Antarctic Treaty Area through Indian Antarctic Expedition or part of it, including scientists and logistical personnel..
- Citizens and organizations of State Party other than India, if their activity is part of the Indian Antarctic Expedition.

For Official Use Only

Reviewer: (Environmental Officer)	Review Date:	Authorizing Officer: (Director, NCPOR)	Authorization Date:
	File reference: [Records]		Details of Post Activity Completion Report:
		Name, Date and Signature	

(If space provided in the application to submit required information is not sufficient, may you please attach a separate sheet)



Environmental Authorization Form
(Under Antarctic Treaty System
and Environmental Protocol)
For Executing Those Activities Which Requires Environmental Evaluation



PART A: Applicant Details

A1. Name of Applicant (proponent or Principal Investigator): _____

A2. Indian Antarctic Expedition Details/Other Expedition (as applicable): _____

A3. Project Title: _____

A4. Purpose: Scientific Logistics

A5. Duration: Summer Winter

A6. Project Number (if applicable): _____

A7.1 Organization Name: _____

A7.2 Postal address of Principal Investigator: _____

Email address: _____

Telephone/Mobile number _____

Website: _____

Nationality: _____

A8. If the authorization is to be issued to a company, partnership or Association, provide the following information:

Name of Company, Association or Partnership: _____

Business Address: _____

Postal Address: _____

Website: _____

For more than one participant, including foreign nationals, please fill Annexure A

PART B : ENVIRONMENTAL IMPACT ASSESSMENT

B1. INTRODUCTION

India has obligations under the Antarctic Treaty System to protect the Antarctic Environment. Parts of the Antarctic environment are highly susceptible to the effects of human activities and less able to recover from disturbance or damage.

B2. ENVIRONMENTAL IMPACT ASSESSMENT AND AUTHORISATION

Environmental impact assessment (EIA) is the process used to evaluate the likely environmental effects of a proposed activity, project or program. An EIA is required for any activity proposed to be undertaken in any area south of 60°S, including all water, land and ice shelves and CCAMLR area. The EIA must be authorised before the activity commences. It is not possible to retrospectively authorise an activity.

The EIA process requires proponents to identify and minimise the environmental impacts of their activities and consider alternatives. The EIA process is three-tiered.

- A Preliminary Assessment (PA) is required for all new activities. It will determine if the likely impacts of the activity will be **no more than negligible**. The NCPOR authorises such activities.
- An Initial Environmental Evaluation (IEE) is required if it has determined that the likely impacts of an activity on the environment are **minor or transitory**. An IEE requires a more elaborate consideration of the elements of activity and the likely environmental impacts; it must consider alternatives to the proposed activity, and include a public consultation phase. IEEs are made available to other Antarctic Treaty Parties on request.
- A Comprehensive Environmental Evaluation (CEE) is required if a PA or an IEE determines that an activity will have impacts **on the environment** that are **more than minor or transitory**. The CEE involves a thorough examination of the activity, its environmental outputs, the receiving environment, and any alternatives. It is the highest level of EIA. Draft CEEs are subject to a wide public consultation process and are circulated to other Antarctic Treaty Parties and tabled at an annual meeting of the Committee for Environment Protection. This process may take up to two years to complete.

The EIA should provide enough information to allow a determination to be made as to the level of impact that the activity may have on the environment. It may include, for example, information on:

- the likely impacts of the activities on flora and fauna of the region; ice, water, air and surface quality; heritage/wilderness and/or aesthetic values of the area; emissions; waste generation handling and impacts;
- potential cumulative impacts; and
- other possible impacts.

If you are aware that the activities you are proposing will have more than a minor or transitory impact on the Antarctic environment, an Environmental Impact Assessment (EIA), such as an Initial Environmental Evaluation (IEE) or a Comprehensive Environmental Evaluation (CEE), may already have been prepared by your organisation, if so, you should summarise the main findings here and attaché a copy of document.

B3. Where IEE/CEE prepared for the proposed activity

Yes No

- If yes, then attach the document along with application
- If no, then justify the reason why IEE or CEE is not required to prepare for the proposed activity in a separate sheet and attach with application

(EP: Environmental Protocol)

B3. ACTIVITY DETAILS.

Please provide a detailed description of the activity (*and/or refer to sections of your attached EIA report if applicable*). _____

What is the objective or purpose of the activity/activities? _____

What are the locations of the proposed activity/activities? (Please provide the name and geographic coordinates of locations, and a map including planned vehicle/aircraft/ship routes, and any protected areas.)

Activity to be carried out during: Summer Winter

What are the planned dates you will undertake activities in Antarctica

How many site or field visits do you anticipate will be involved? What is the frequency and duration of activities or field work, and what methods of transport will be used? What equipment and methods will be used?

If you will be travelling in helicopters or vehicles, will you need to travel or land closer than wildlife separation guidelines at any time: Yes No

If yes provide further details _____

B4. ALTERNATIVES TO THE ACTIVITY

What are possible alternatives to the activity, including the alternative of not carrying on the activity? What are the consequences of each alternative?

What are the potential direct and indirect impacts of the activity (such as physical disturbance, emissions, waste (including human waste), noise, light etc - consider nature, extent, duration and intensity)?

B5. WHICH ENVIRONMENTS MAY BE IMPACTED?

Will there be impacts on ice, water or air quality:

Yes No

If yes provide further details_____

Will there be impacts on ice free areas, lakes or lake catchments :

Yes No

If yes provide further details_____

Will there be impacts on wildlife or wildlife areas, moss or lichen habitat: Yes

No

If yes provide further details_____

Are there any impacts on heritage, wilderness and/or aesthetic values:

Yes No

If yes provide further details_____

Are there any other environmental sensitivities, or impacts on other programs (such as installing equipment near others' equipment):

Yes No

If yes provide further details_____

Where native mammals, birds or invertebrates are involved in research, how will you ensure that they will be treated in an appropriately humane manner? If the project has been subject to an ethical review, please include details of (i) the reviewing body, (ii) the date the review was undertaken and (iii) the conclusions and any project-specific recommendations.

If the mammals, birds or invertebrates (alive or deceased) are to be transported, how will this be done?

If you wish to do something which would cause potential damage to the habitat of any native mammal, bird, plant or invertebrate. Please give full details of the activity and the habitat:

Will any hazardous substances be taken into Antarctica? Please list any hazardous substances (e.g. chemical substances), radioactive material or stable isotopes that you propose to use. For each substance, please list (i) the hazard class, (ii) the quantity, (iii) why it is required and (iv) whether or not they will be released into the environment. Please explain how they are intended to be used.

Do you intend to install any equipment in Antarctica (e.g. data loggers, stke, receivers or markers)? If yes, please provide (i) a brief description of the equipment, (ii) a summary of the installation location, (iii) details of how the equipment will be maintained and (iv) when it will be removed.

Do you intend to store fuel, outside the main tanks of a vessel or within the Antarctic terrestrial environment? For each fuel type please state the quantity and location of the storage facility. If a fuel transfer is to be undertaken, please state the quantity and location of the storage facility. If a fuel transfer is to be undertaken, please provide details including a copy of the fuel Spill Contingency Plan.

B6. PLEASE PROVIDE DETAILS OF WASTE DISPOSAL PROCEDURES PROPOSED FOR THE EXPEDITION:

Sewage

Quantity expected to be generated :

Packaging and Disposal practices:

Grey water

Quantity expected to be generated :

Packaging and Disposal practices:

Food waste (other than meat and poultry product waste)

Quantity expected to be generated :

Packaging and Disposal practices:

Meat and poultry product waste

Quantity expected to be generated :

Packaging and Disposal practices:

General waste

Quantity expected to be generated :

Packaging and Disposal practices:

Where will wastes removed from Antarctica be disposed of : Yes No

Provide details of storage and/or disposal

B7. MITIGATION MEASURES

Describe what steps will be taken to minimise adverse impacts on native species, the ecological community and the environment in general, including where applicable:

Actions that will be taken to mitigate impacts of the activity _____

What procedures will be put in place to handle wastes, chemicals, fuel, to prevent cross contamination of sites and manage any other impacts identified? _____

Activity which have been timed to avoid adverse impacts, particularly in relation to known breeding cycles, movements or aggregations of animals? _____

Are there any contingency plans to be followed in the case of emergencies or adverse impacts on species or the environment: Yes No

If yes, provide details _____

Are there any cumulative impacts of the activity: Yes No

If yes, provide details _____

Please describe how the Permit holder will ensure compliance with current Antarctic environmental legislation (including the Protocol on Environmental Protection to the Antarctic Treaty)

How will the Permit holder ensure the expedition members covered by this Permit will be fully informed of all their environmental responsibilities? (Including, but not limited to disturbance of wildlife, introduction of non-native species, waste disposal, respecting historic sites and minimising trampling impacts)

B8. OTHER ISSUES

Please indicate:

Methods used to forecast the impacts of the activity and develop mitigation measures (such as consultation or experience with similar activities), and any uncertainties/knowledge gaps relevant to assessing likely impacts. _____

Any activities that may have highly uncertain environmental effects. _____

Any other matter thoughts relevant by those completing this document. _____

Please refer

IAATO Guidelines to Minimize Seabirds Landing on Ships

IAATO Wildlife Watching Guidelines for Emperor Penguins and Leopard Seals

Working Paper on Guidelines for the Operation of Aircraft near Concentrations of Birds in Antarctica

Update on Boot and Clothing Decontamination Guidelines and the Introduction and Detection of Diseases in Antarctic Wildlife: IAATO's Perspective

Part C:

C1. Weapons

Does your intended activity require use of any weapon?

Yes

No

If yes, provide details (*Article 1, Antarctica Treaty*): _____

C2. Other issues (In case IEE/CEE) required and prepared for proposed activities)

Please indicate:

- Methods used to forecast the impacts of the activity and develop mitigation measures (such as consultation or experience with similar activities), and any uncertainties/knowledge gaps relevant to assessing likely impacts

- Any activity that may have highly uncertain impacts on environment:

- Any others matters thought relevant by those completing this document.

Questions, queries of this form (and statutory declaration for any biological sampling) can be forwarded to the Director with cc to Environmental Officer as below.

Email to: director@ncpor.res.in or mravi@ncpor.res.in and cc to anooptiwari@ncpor.res.in or anooptiwari.ncpor@nic.in

Phone: +91 832 2525 501

Fax: +91 832 2520 877

Part D: Declaration

I _____ hereby solemnly and sincerely declare that all the information provided that all the information provided in Environmental Authorization Application form are true and correct to the best of my knowledge. I also understand that this is a legal obligation and failure to which may draw administrative and financial implications.

Signed _____ Dated _____

In the presence of _____ (*name of witness*)

Witness signature _____ Dated _____

(The acknowledgement is to be signed by the Project Investigator for the Environmental Authorization of activities)

PRIVACY WAIVER

The information, including personal information, on this application will be used to assess your application and the environmental impact of your proposed activity. This information may be used to contact you regarding your application. The information may also be disclosed to other government agencies, for related regulatory purposes pertaining to your activities in or around the Antarctic, south of 60 degrees south.

DETAILS OF APPLICANT/PARTICIPANT

Full name (as per passport) (1)	Nationality (2)	Passport no. (3)	Previous experience of scientific research in the Arctic, Antarctica or in other cold or high altitude areas? (Y/N) (4)	If 'yes' for previous column (4), please provide details (5)

*for any changes in the name, please inform to Director, NCPOR and provide full details.