



# Antarctic Treaty

## Electronic Information Exchange System

**Party: India**  
**2014/2015 Annual Information**

### Scientific Information - Forward Plans

<b>Science Plan/Program/Project:</b>	One Scientist from NCAOR is participating in South African Antarctic Expedition during austral summer of 2015-16		
<b>Planned Operating Period:</b>	<b>From</b>	<b>To</b>	
	<b>Organisation:</b>		
	<b>Name:</b>	Dr Ravichandran M	
<b>Contact Point:</b>	<b>Job Title or Position:</b>	Director	
	<b>Phone:</b>	+91 832 2525 501	
	<b>Email:</b>	mravi@ncaor.gov.in	
<b>Details/Description:</b>	Please see attached file		
<b>Link (URL):</b>			
<b>Additional Information:</b>	<a href="#">Open file</a>		
<b>Discipline:</b>			
	<a href="#">Areas of Activity</a>		

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<b>Planned Operating Period:</b>	<b>From</b>	<b>To</b>	
	<b>Organisation:</b>		
	<b>Name:</b>	Dr Ravichandran M	
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<b>Discipline:</b>			
	<a href="#">Areas of Activity</a>		

Scientific Information - Science Activities in Previous Year

Project Name/Number:	
Discipline:	Please see attached file
Principal Investigator:	Please see attached file
Main Activity/ Remarks:	
Link (URL):	
Additional Information:	<a href="#">Open file</a>
Operating Period:	From: To:
Areas of Operation	

Operational Information – National Expeditions - Stations

Name:	Bharati
Type:	Wintering
Location:	Site Name: Bharati Lat: 69° 24 ' 25 ' ' S Long: 76° 11 ' 42 ' ' E
Maximum Population:	15
Medical Facilities:	One medical doctor throughout the winter over period and two medical doctors during austral summer available at station.
Remarks / Description:	Communication IRIDIUM: 008816 77703122 E-MAIL: lead.bharati@gmail.com

Name:	Maitri
Type:	Wintering
Location:	Site Name: Maitri Lat: 70°45 ' 56 ' ' S Long: 11°44 ' 8 ' ' E
Maximum Population:	25
Medical Facilities:	Two medical doctors are available during summer and winter season
Remarks / Description:	Comminucation: INMARSAT PHONE NO. 00870-641902726 INMARSAT FAX NO. 00870-641902727 MAITRI IRIDIUM-1: 008816 314 47069 MAITRI IRIDIUM-2 008816 314 47517 E-MAIL: stncdr.maitri@gmail.com, maitri@ncaor.amosconnect.com

Operational Information – National Expeditions - Vessels

Name:	MV IVAN PAPANIN
Country of Registry:	Russian Federation
Number of Voyages:	0
Maximum Crew:	28
Maximum Passengers:	39
Remarks:	Port of departure: Cape Town Port of arrival : Cape Town Departure from Cape town – 17 January 2015 Arrival at Bharati, Larsemann Hills – 27 January 2015 Departure from Bharati, Larsemann Hills – 19 February 2015 Arrival at India Bay, Maitri – 25 February 2015 Departure from India Bay, Maitri – 25 March 2015 Arrival at Cape Town – 04 April 2015 Purpose: science deployment, re-supply, change-over, Bharati and Maitri Stations

Operational Information – National Expeditions - Aircraft

Type:	KAMOV 32 C (Helicopter) One andAS 350 B3 (Helicopter)- One		
Category:			
Period From:	27/01/2015		
Period To:	25/03/2015		
Remarks:	• Period Of Flights: 75 hrs • Onboard Ship: MV Ivan Papanin • Purpose: Science, Logistic Operations & SAR Type: • Period Of Flights: 21 hrs • Onboard Ship: MV Ivan Papanin • Purpose: Science, Logistic Operations & SAR		

Operational Information – National Expeditions - Military

Military personnel in expeditions:	Two Naval Hydrographers of the rank of commander and Sailor
Number and Type of Armaments possessed by personnel:	N/A
Number and Type of Armaments of ships and aircraft:	N/A
Information and Location of Military Equipment in the AT Area:	N/A

**Operational Information – Non Governmental Expeditions - Vessel-Based Operations**

No new information have been provided during the reported period.

**Operational Information – Non Governmental Expeditions - Land-Based Operations**

No new information have been provided during the reported period.



Environmental Information - Environmental Impact Assessment (Monitoring and follow-up Activities)

Name of Activity:	Environmental Monitoring
Location:	Site Name: Maitri Lat: 70°45′56″S Long: 11°44′8″E
Procedures put in Place:	COMNAP Guideline on Environmental Monitoring as well as other relevant guidelines were followed to carry out Environmental Monitoring in and around the station.
Information Obtained:	Measurement of the parameters have been done on Air Environment and Water Environment. Lake water samples, sediments as well as waste water samples have been collected and analysed.
Actions Taken:	Wastewater treatment system has been tuned to improve the efficacy. Actions has been taken to reduces the chances of oil spill by laying fuel pipeline over trestle from storage to distribution point. Further action to lay lines on waste water pod and other oil handling area is being taken.
Related EIA:	

Environmental Information - Waste Disposal and Management (Inventory of Past Activities)

Activity Type:	Waste Removal
Location:	Site Name: Maitri Lat: 70°45′52″S Long: 11°44′00″E
Description of Activity:	around 1000 empty fuel barrel have been removed from station. Seven containers of assorted waste containing mainly vehicle, parts and repairing martial has been removed and back loaded
Period of Activity:	Date Begin: 01 Jan 2014 Date End: 25 Mar 2015
Remaining Equipment or Facilities:	Still few old-non serviceable vehicles and parts are remaining to be back loaded.

Environmental Information - Area Protection and Management (Permit, Visit and Activities)

ASPA / ASMA:	<b>Type:</b> ASPA <b>Number:</b> 163 <b>Name:</b> Dakshin Gangotri Glacier, Dronning Maud Land ( <a href="#">More Details</a> )
Permit Number:	NCAOR/ANT/ASPA163/2015-1
Number of people:	<b>Permitted to enter:</b> 2 <b>That actually entered:</b>
Permit Period:	<b>From:</b> 01 Jan 2015 <b>To:</b> 31 Mar 2015
Purpose:	Annual study and monitoring of Dakshin Gangotri snout and snow accumulation / ablation on ice shelf.
Summary of activities:	The movement of the glacier is monitored by measuring the distance of the glacial wall (snout) from fixed ground points. In the year 2001, the observations have been extended westwards of the snout, to cover the entire western side of the ice wall. One set of observations from the western wall and three set of observations from the glacier snout is planned during the austral summer period. The snow ablation / accumulation on ice shelf is being monitored using a network of stake array fixed on ice-shelf in the Princess Astrid coast and on the ice sheet south of NOVO airport. The accumulation or ablation in the area is monitored by measuring the exposed portion of the stakes annually. One set of observation from ice shelf and three set of monthly observations from ice sheet stake networks during the austral summer period.
Event or project name/number:	ESG-12/XXXIV-ISEA

**Environmental Information - Area Protection and Management (Change or Damage)**

No change or damage was observed during this reporting period.

Other Information - Relevant National Legislation

No new information have been provided during the reported period.