

July-Sept, 2010

ICZM Newsletter from Gujarat SPMU  
(Gujarat Ecology Commission)



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## Message from Shri. Jairam Ramesh, Hon'ble Minister of State (Independent Charge) for Environment & Forests



I take this opportunity to congratulate Gujarat Ecology Commission (GEC) for its successful endeavor in publishing the first issue of the ICZM - Gujarat Newsletter.

This newsletter is the first step towards creating a platform for information dissemination about the ICZM-Gujarat Project.

I am sure that Gujarat Ecology Commission (GEC) as the State Project Management Unit will be central in establishing a collaborative framework for the successful

implementation of ICZM in Gujarat. The key to the success of ICZMP is the cooperation and combined action of various stakeholders of the society and I think that this newsletter is an excellent initiative in that direction.

I wish GEC all the success.

## From the Project Director's Desk

I am pleased to present to you the first issue of the official newsletter on Integrated Coastal Zone Management Project being implemented in the Gulf of Kachchh. At the outset I would like to thank the Ministry of Environment and Forest, Government of India, the World Bank and the Department of Forest & Environment, Government of Gujarat for entrusting Gujarat Ecology Commission with a project of such immense value and importance. It is indeed an honor for Gujarat Ecology Commission to be associated with it.

I look forward to a collaborative effort towards this initiative through the

participation and support of our implementing partners, namely, Gujarat Ecological and Educational Research Foundation, Marine National Park & Sanctuary, Gujarat Pollution Control Board, Bhaskaracharya Institute for Space Applications and Geo-Informatics and Jamnagar Municipal Corporation.

I am sure that with co-ordinated efforts towards management of the coastal belt of the Gulf of Kachchh, we will be able to successfully implement the multiple facets of this complex project.

In the end, I would also like to appreciate the efforts that my team at Gujarat Ecology Commission

has put in the making of this newsletter. I assure you that this newsletter will keep you well informed about the latest developments and progress of the ICZM project. I welcome your recommendations and suggestions.



Shri. E. Balagurusamy, IFS  
Principal Chief Conservator of  
Forests & Member Secretary,  
Gujarat Ecology Commission



## Rs 25-cr plan unveiled for Green Dandi Memorial

Jul 08 2010, Dandi

Union Environment Minister Shri. Jairam Ramesh and former West Bengal Governor Shri. Gopalkrishna Gandhi on Wednesday unveiled a ₹25 crore plan to develop Dandi as a green zone. Three villages adjoining the Gandhi Memorial at Dandi will also be developed as an eco-friendly tourist destination.

"...Dandi was Gandhi's gate to the country. Now the country must do something for Dandi," said the honorable minister at the inaugural function. He said with this initiative, Dandi and the surrounding

villages will be declared an eco-sensitive zone under the Environment Protection Act, 1986.



The term Green Action for National Dandi Heritage Initiative (GANDHI) Memorial was coined by the honorable minister himself. It will involve the local communities of Dandi, Samapar, Matwad and Onjal, and will be taken forward by Gujarat Ecology Commission, Gujarat Vidyapith and

Society of Integrated Coastal Management.

Shri.E.Balagurusa my, Member Secretary, Gujarat Ecology Commission, said that the GANDHI initiative will involve activities such as a 100-hectare mangrove plantation drive along with a 50-hectare bio-shield along the 8-km shoreline; development of solar and wind energy coupled with natural waste management systems; improving livelihoods in the area through promotion of Khadi to replace plastic products in the area; and desalination to improve agriculture and horticulture.

## ICZM - State Progress Report

In May 2010, the World Bank and the Department of Economic Affairs, Ministry of Finance, Government of India signed a project agreement for the Integrated Coastal Zone Management Project (ICZMP).

The ICZM, a project intended for enhanced coastal zone management & conservation through the implementation of various community based socio-economic development initiatives, mangrove and coral transplantation and restoration activities, efficient sewage treatment and disposal plan for Jamnagar Municipal Corporation and geo-satellite mapping of the coastal areas among various other activities, will be implemented in the state of Gujarat in India. On behalf of the Government of Gujarat, the Project Director of the

State Project Management Unit was party to this occasion.

The State Govt. has signed a letter of agreement for the implementation of ICZMP as per the Draft Project Report that was approved in June 2010. The agreement was signed by the Principal Secretary, Forest & Environment Dept., Govt. of Gujarat

In June 2010, a meeting with the Project Executing Agencies and the Ministry of Environment & Forest was organized and Gujarat State Project Management Unit signed a Memorandum of Understanding between the Project Executing Agencies and the State Project Management Unit to carry out the activities proposed under the ICZM pro-

ject.



A Steering Committee Meeting headed by the Principal Secretary, Forest & Environment Department the highest approval body for the ICZM project in Gujarat - was held in September 2010, wherein an annual work plan for the Gujarat component of the project was approved by the members of the Steering Committee.



## ICZM - State Progress Report

In the presence of the Principal Secretary, Forest & Environment Department, and representatives from the World Bank, a meeting of the Project Implementing Agencies was organized at Saputara during the month of July, 2010. The intent of this meeting was to undertake certain decisions for better implementation of the project undertaken.

Gujarat State Project Management Unit has issued invitations for expressions of interest for various services such as procurement of financial and management advisory services, internal auditing services and project management consultancy services for the Jamnagar Municipal Corporation.

An invitation bid was also issued for the procurement of a contractor to carry out consultancy work for networking under the Jamnagar Sewage Treatment Project.

Marking the first step towards initiation of the Integrated Coastal Zone Management Project, the Marine National Park and Sanctuary has initiated mangrove plantation activity covering an area of 1300 ha. within the sanctuary.

As part of the team strengthening and capacity building initiative, staff selection for the State Project Management Unit was carried out during the month of September 2010 and an internal team of the State Project Management Unit for ICZMP was selected.



The ICZM project involves a component of socio-economic development through community mobilization, empowerment and development. As a primary step in this direction, community mobilization initiatives were undertaken in 160 villages along the Gulf of Kachchh. To better facilitate the large scale of operations, three project offices have been established by the Gujarat Ecology Commission in the districts of Kachchh, Jamnagar and Rajkot.



As a part of this initiative, Participatory Rural Appraisal (PRA) activities were completed in the month of September, 2010 in 48 villages. A comprehensive report reflecting the findings of the PRA activities will be compiled in the form of a report which will serve as a guidance for future plan of action.

A book on 'Economic Valuation of Corals' was published by GEC and inaugurated by Honorable Minister, Shri. Jairam Ramesh in September 2010. This book highlights the coastal diversity of Gujarat in terms of the presence of a variety of coral species and the associated marine bio-diversity. An

illustrative book with pictorial representation of the coral reefs along the coast of Gujarat, this book gives a panoramic view to the reader.

The Govt. of India and World Bank under the Integrated Coastal Zone Management project granted an extension in South Gujarat coast to develop 'Green Action for National Dandi Heritage Initiative (GANDHI) Memorial Project at village Dandi & surrounding three villages, namely, Sampore, Onjal and Matwad, Taluka Jalapore, District Navsari.

The project is being implemented through the Society of Integrated Coastal Management (SICOM), Ministry of Environment & Forests, Govt. of India. Gujarat Ecology Commission (GEC) and Gujarat Vidyapith will act as Project Executing Agencies (PEAs) for this project and will be responsible for overall execution, supervision and monitoring of the project activities. SICOM has earmarked a fund of Rs. 25 Crores for this project to be implemented over the next two years.

## Workshops & Seminars

A two day orientation workshop for field workers and program coordinators was conducted at GEER foundation in July, 2010.



A two day ICZM project orientation seminar was organized for the Gujarat Ecology Commission staff at Bhuj in September, 2010.



A three day PRA training workshop for field staff was conducted at Bhuj in

the month of September, 2010.



An introductory meeting with the staff of Marine National Park and Sanctuary authority was organized in the month of September 2010. The participants of the workshop were Foresters, Forest Guards, Range Forest Officers, etc. wherein ICZMP goals and objectives were explained to all the participants.

A procurement training workshop will be conducted in the month of November 2010 to appraise all the implementing agencies about methodology involved in procurement under ICZMP.

A Participatory Development Communication Workshop will be conducted for all the field workers and program coordinators to understand their needs on the communication front and train them in basic methodologies of local communication.

## ICZM - National Progress Report

The Ministry of Environment and Forests (MoEF) has initiated a World Bank assisted Integrated Coastal Zone Management Project with a budget outlay of: 1155.63 crores.

For implementation of the above project the Society of Integrated Coastal Management (SICOM) has been established as a registered body. The SICOM office was inaugurated by Shri. Jairam Ramesh, Hon'ble Minister of State (I/C) for Environment and Forests on 15th September, 2010.

As part of the project, SICOM will be implementing the following four components, namely,

- (i) National Coastal Management Program
- (ii) ICZM West Bengal
- (iii) ICZM Orissa
- (iv) ICZM Gujarat

(i) The National Coastal Management Program includes

(a) A project for demarcation of hazard line that has been assigned to Survey of India (SoI) for mapping the entire coastline of the mainland of the country. The MoU between SoI and MoEF was signed on 13th May, 2010.



(b) A National Center for Sustainable Coastal Management (NCSCM) has been established within the campus of Annamalai University, Chennai. This Center will be linked to eleven collaborating regional centers in each of the coastal states/union

territories.

The main objective of NCSCM is to promote research and development in the area of coastal management & address issues of coastal communities. The "Annamalai University Declaration" has been adopted on 21st June, 2010 by NCSCM and the collaborating eleven research centers.



(c) A Green Action for National Dandi Heritage Initiative (GANDHI) Memorial project has been initiated



## ICZM - National Progress Report

at Dandi. The project focuses on development of a green memorial in the memory of completion of 80 years of Gandhiji's Dandi March.

The project is to be implemented at village Dandi & surrounding three villages, namely, Sampore, Oujal and Matwad, Taluka Jalapore, District Navsari. These coastal villages are facing severe environmental problems such as, salinity intrusion into the agriculture land, drinking water scarcity, erosion, lack of sanitation, etc.

The project is being implemented through the Society of Integrated Coastal Management (SICOM), Ministry of Environment & Forests, Govt. of India. Gujarat Ecology Commission (GEC) and Gujarat Vidyapith will act as Project Executing Agencies (PEAs) for this project and will be responsible for overall execution, supervision and monitoring of the project activities. SICOM has earmarked a fund of ₹ 25 Crores for this project to be implemented over the next two years.



(ii) The ICZM West Bengal component involves ICZM Plan preparation for Digha-Shankarpur and Sagar Islands in Sunderbans. The project includes 100% household electrification of Sagar Island which will benefit the local

communities. Further, livelihood improvement, construction of fishing jetty, fish handling and marketing facilities are being created at Digha and Sagar Islands.

The project management unit is headed by Shri. Debal Ray, Project Director, ICZM project, Institute of Environmental Studies and Wetland Management.



(iii) The ICZM Orissa component includes Integrated Coastal Zone Management Plan preparation for the areas of Paradeep-Dhamra and Gopalpur-Chilka stretches. Major thrust is on conservation of Bhitarkanika, Gahirmatha, Chilka and improvement of livelihood of coastal communities living in these stretches. The project has been launched on 29th September, 2010 by Shri. Naveen Pattanaik, Chief Minister, Government of Orissa.

The ICZM Orissa project is headed by Dr. Ajit K. Pattanaik, Project Director & Chief Executive, Chilka Development Authority.



(iv) The ICZM Gujarat component includes development of Integrated Coastal Zone Management Plans for Gulf of



Kachchh. The main thrust of the project is on socio-economic development of the communities living along these stretches.

The project has been launched on 7th July, 2010 and is under implementation. The project is headed by Shri. E. Balaguruswamy, Member Secretary, Gujarat Ecology Commission.

To regulate foreshore development in view of increase in erosion at several stretches of the shoreline, a study has been assigned to Institute for Ocean Management (IOM), Anna University, Chennai to map the shoreline. IOM has completed the study for Gujarat coast. The coast of Tamil Nadu and Puducherry will be completed by November, 2010.

Shri Jairam Ramesh, Minister of State (I/C) for Environment and Forests has written to Chief Minister of all coastal States/ Union territory (other than Gujarat, Orissa and West Bengal who are already included in Phase-I of the ICZM project) requesting proposals for Phase-II of the ICZM project.



## Mangroves: The Coastal Wonders of Gujarat

Whether it be checking shoreline erosion or stabilizing land elevation by reducing sediment loss, one cannot think of better keepers of a coastline other than mangroves. With immense ecological and socio-economic value, these wonders of the sea have become an indispensable part of coastal ecosystems nurturing & replenishing marine & aquatic life while adding to the element of beauty and serenity.



Mangroves are salt tolerant plants growing along the coast in the inter-tidal area and in estuaries of rivers. In India, the mangroves in Gujarat are second only to the mangroves in West Bengal on the East Coast in terms of area, occurring along a stretch of about 936 sq. Km.



Globally, mangroves form a unique ecosystem that harbors more than 34 major and 20 minor mangrove species belonging to about 20 genera in over 11 families. Mangroves form a fragile ecosystem that pro-

vides livelihood opportunities for local coastal communities. In India, the total mangrove cover is estimated to be around 4639 sq. Km. and caters to a huge marine biodiversity.

Bhitarkanika Mangrove Biosphere Reserve situated in Orissa along the east coast of India has been identified as one of the major mangrove bio-diversity hot spots with more than 65 different species of mangroves. Gujarat, being highly saline in terms of water and soil salinity has very less biodiversity of mangroves along the coast. However, recently about 14 species of mangroves have been found to be proliferating in South Gujarat in the districts of Valsad and Navsari by GEER foundation.

## The Whale Shark: A Bio-diversity Marvel

The Whale Shark *Rhincodon typus*, Smith, 1828, grows to a length of approximately 12 m and a weight of approximately 30 tonnes, making it not only the largest fish but also one of the largest extant animals on the earth. The rarity of the whale shark sightings has thus resulted in global concern regarding the health of its population. Therefore, the whale shark, which migrates in winter from Africa to Gujarat coast, was placed under Schedule I of Indian Wildlife (Protection) Act in 2001.

Sightings of Whale Sharks have been reported from almost all maritime

states of India including Gujarat, Maharashtra, Karnataka, Kerala, Tamil Nadu, Andhra Pradesh, West Bengal and Goa. In Gujarat, it is found from Portbandar to Okha. There are about 500 whale sharks in Indian waters and most of them are spotted largely on the coast of Gujarat.



The whale shark is a less abundant species. Whale sharks being ovoviviparous, the eggs

remain in the body and the females give birth to live young. It is believed that they reach sexual maturity at the age of 30 years and its life span is an estimated 70 to 100 years. Due to late sexual maturity, their population is extremely vulnerable to over-fishing. The main threat to the species has been the growth of unregulated and unsustainable fisheries to meet international trade demands for shark fin, liver oil, skin and meat.

## News, Notifications & Procurement Details

A pre-bid meeting for financial & procurement advisory services will be scheduled in the month of October, 2010

A pre-bid meeting for Project Management Consultancy for the Jamnagar Sewage Treatment Project (STP) will be scheduled in the month of October, 2010

A pre-bid meeting for Internal Auditory Services will be scheduled in the month of October 2010



A pre-bid meeting for house connection and networking systems for prospective contractors will be scheduled in the month of October, 2010

Procurement for the design and development of a dedicated website for the Integrated Coastal Zone Management Project is planned to be implemented between October & November, 2010. The invitation for expressions of interest for

the same will be published in leading dailies. Interested applicants may also check the ICZM website.

Procurement of consultants for development of a master plan for GANDHI Memorial Project in Dandi is planned for the months of October & November, 2010.

## ICZM in the News

### INTEGRATED COASTAL ZONE MANAGEMENT PROJECT

April 10, 2010 12.01 pm

The Integrated Coastal Zone Management (ICZM) Project is the study the 7,500 Km. coastline and impact of shoreline change and sea level rise in India. The project will cover six crore people who live in coastal areas. This ₹ 1156 crore World-Bank assisted ICZM Project will be implemented over the next five years by the Ministry of Environment and Forests.

It will focus on four factors- shoreline changes, tides, waves and sea level rise. The three states of West Bengal, Orissa and Gujarat have been identified for launch of the project. Accordingly the areas identified are the Gulf of Kachchh and Jamnagar, Sunderbans, Haldia and Dighe-Shankarpur and wetland conservation in Orissa.



### WORLD BANK APPROVES TWO PROJECTS WORTH USD 372M TO INDIA

PTI, Jun 16, 2010, 11.55am, WASHINGTON

The World Bank approved two projects worth \$372 million, including the Integrated Coastal Zone Management project to India. The integrated coastal zone management project will help build the appropriate institutional arrangements, capacity and advanced knowledge systems needed to implement the national program, the bank said.

### GOVERNMENT SIGNS \$286 MN PACT WITH WB

Jul 23 2010, 02:15 hrs, New Delhi

The government today signed a loan and credit agreement with the World Bank worth \$286.15 million. Of the total funds, \$221.965 million will go towards the integrated coastal zone management project. The project

will assist in building national capacity for the implementation of comprehensive coastal management approach and piloting the integrated coastal zone management approach in Gujarat, Orissa and West Bengal.

### ORISSA, GUJARAT AND WB TO INITIATE NATIONAL PROGRAMME TO PROTECT OUR COASTAL ECOSYSTEMS

16-Sep-2010 07:35:29 AM

The Minister of State for Environment and Forests, Shri. Jairam Ramesh said the major national initiative to protect our coastal ecosystems will start from states of Orissa, Gujarat and West Bengal. Inaugurating the office of the Society of Integrated Coastal Management (SICOM) here today, the Minister said this is for the first time that a professional body with experts in various aspects of coastal science and management has been formed.

## Did you know?



The green sea turtle, whose scientific name is *Chelonia mydas*, comes to the sea beach only to lay eggs. It lays about 100 to 150 eggs in the sea beaches and then goes back into the water.

“Unlike the other animals it does not have any maternal instincts. Having laid the eggs on the beach, it simply returns into the sea. It does not care about its hatchlings!”

The endangered green sea turtle, which is found mainly on the coast of Gujarat, is facing major threats due to different factors and needs immediate conservation measures. The threat to green sea turtle population comes from accidental catch by fishermen which result in their death, egg lifting and predation by animals, sand mining at important nesting beaches, developmental activities along coast and death due to industrial effluents.

## Calendar of Activities

OCTOBER, 2010	NOVEMBER, 2010	DECEMBER, 2010
<ul style="list-style-type: none"> <li>★ Selection of bidder for the execution of sewerage treatment networking and house connection system.</li> <li>★ Initiation and launch of entry point activities at village level.</li> <li>★ Mangrove plantation activity to be initiated at various project locations.</li> <li>★ Procurement of scientific instruments for Gujarat Pollution Control Board.</li> <li>★ Implementation of Participatory Rural Appraisal activities in 4 villages in Dandi district.</li> <li>★ CBO formation activity to be initiated in the project villages.</li> </ul>	<ul style="list-style-type: none"> <li>★ Procurement of financial and procurement consultants.</li> <li>★ Procurement of internal auditor.</li> <li>★ Initiation of house collection and networking system at Jamnagar.</li> <li>★ Launch of the Mangrove Yatra as part of the awareness generation campaign in the project areas.</li> <li>★ Meeting of the Steering Committee to discuss the progress of ICZM and address issues of concern.</li> </ul>	<ul style="list-style-type: none"> <li>★ District Officials' meeting to enhance abilities towards liaisoning and networking for implementation of ICZM in project area villages.</li> <li>★ A national level ICZM orientation workshop to be conducted in Delhi for all the partners and agencies involved in ICZM.</li> </ul>

For further information,  
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