

CAPACITY BUILDING ON INTEGRATED COASTAL MANAGEMENT

TRAINING COURSES

To develop capacity on Integrated Coastal Zone Management, SICOM, Ministry of Environment and Forests, is conducting short courses and training programs.

SOCIETY OF INTEGRATED
COASTAL MANAGEMENT

MINISTRY OF
ENVIRONMENT AND
FORESTS

GOVERNMENT OF INDIA

NEW DELHI

3/1/2011

Why capacity building on Integrated Coastal Zone Management?

Concern is growing that the current state of the coastal and marine areas requires immediate action and attention. Many scientists and policy experts believe that solutions based on an integrated management approach hold the greatest promise for delivering effective results. Integrated management incorporates social, cultural, environmental and economic values into the development and implementation of plans to guide and coordinate human activities. The ultimate goal of integrated management is to reach general agreement on the best mix of conservation, sustainable resource use and economic development for coastal and marine areas. Integrated Coastal Zone Management (ICZM) is new to our coastal governance aspect hence, capacity development in ICZM is very imminent. Under the World Bank assisted ICZM project, capacity development on ICZM has been initiated through the Society of Integrated Coastal Management (SICOM). Considering different target group of coastal stakeholders of India, SICOM has identified ICZM refresh course, short courses and training programme.

The above capacity development activities have been targeted to address important milestone of coastal governance in India including policy design, implementation of Coastal Regulation Notification 2011, Integrated Coastal Zone Management Plan (ICZMP) preparation, Hazard Map, Shoreline processes, Critically Vulnerable Coastal Areas (CVCA's), and supportive technical and financial mechanisms to implement the ICZM. The training program will be conducted by National Centre for Sustainable Coastal Management, Anna University Campus, Chennai in association with international training expert consultancy organizations and event management firm employed for this endeavor.

REFRESH COURSE ON INTEGRATED COASTAL MANAGEMENT - FIRST BATCH

1. Aim of the refresh course

To improve the perceptiveness of coastal zone management and available supportive mechanism to apply Integrated Coastal Zone Management in coastal states and Union Territories of India

2. Objectives

At the end of refresh course, the participants will augment to

- vision and goal of coastal zone management
- CRZ 2011 and IPZ 2011 implementation process of Coastal States and Union Territories
- coastal process and hazard line mapping of shoreline
- technical and finance assistance to implement integrated coastal management

3. Participants

CRZ 2011 Notification has empowered the Coastal Zone Management Authorities' (CZMA's) not only to clear proposals also monitoring the violations to take actions. Hence, the leadership of coastal management entrusted with the state / UTs' coastal zone management authorities. Hence, the refresh course is targeting State Coastal Zone Management Authorities (SCZMA's) to share experiences of coastal governance and management options to meet the coastal zone management agenda.

4. Course contents

The refresh course covers presentations of all SCZMA to share their experience in coastal governance and management in their states. Expert discussions about hazard mapping, shoreline changes, ICZM plan process, and supportive

institutional mechanism for CZM such as National Centre for Sustainable Coastal Management, Chennai, and consortium institutions and Survey of India (SoI). A deliberation of the World Bank will be arranged to enhance knowledge about the finance assistance of ICZM project in India. More than all above, the eminent international expert Prof. M. S. Swaminathan, MP whose long vision and continuous guidance to Ministry in Coastal Zone Management policy will be providing a short lecture about the goals of coastal management.

Following the regular class room lectures, and participatory discussions, a field visit to north Tamil Nadu coast will be arranged to discuss about coastal resources, issues, management options and CRZ 2011 implications. After the field visit, the State Coastal Management Authorities will be grouped and present their findings along with the recommendations.

5. Expected outcome;

At the end of the refresh course, the SCZMA's will have enhance knowledge in coastal issues and management principles to achieve the coastal zone management agenda through available supportive technical and fiancé mechanism to implement integrated coastal zone management.

6. Duration

Four days

7. Course modules & schedule

<i>Sl.No</i>		<i>Speaker / Expert</i>	<i>Schedule</i>
1	<i>Welcome address</i>		1000 hrs
	<i>Day 1 : Module 1 –Practicing Coastal Management</i>		
2	Gujarat State Coastal Management Authority	Chairman, SCZMA, Gujarat	1030-1050
3	Daman & Diu State Coastal Management Authority	Chairman, SCZMA, Daman & Diu	1050-1110
	Maharashtra State Coastal Management Authority	Chairman, SCZMA, Maharashtra	1110-1130
4	Tea / Coffee Break		1130-1150
5	Goa State Coastal Management	Chairman, SCZMA, Goa	1150-1210

	Authority		
6	Karnataka State Coastal Management Authority	Chairman, SCZMA, Karnataka	1210-1230
7	Kerala State Coastal Management Authority	Chairman, SCZMA, Kerala	1230-1250
8	Tamil Nadu State Coastal Management Authority	Chairman, SCZMA, Tamil Nadu	1250-1310
9	Lunch		1310-1400
10	Puducherry State Coastal Management Authority	Chairman, SCZMA, Puducherry	1400-1430
11	Andhra Pradesh State Coastal Management Authority	Chairman, SCZMA, Andhra Pradesh	1430-1450
12	Orissa State Coastal Management Authority	Chairman, SCZMA, Orissa	1450-1510
13	Tea / Coffee Break		1510-1530
14	West Bengal State Coastal Management Authority	Chairman, SCZMA, West Bengal	1530-1550
15	Andaman and Nicobar Islands UT Coastal Management Authority	Chairman, SCZMA, Andaman and Nicobar Islands	1550-1610
16	Lakshadweep UT Coastal Management Authority	Chairman, SCZMA, Lakshadweep	1610-1630
17	National Centre for Sustainable Coastal Management – Functions and responsibilities	Prof. R. Ramesh	1630-1700
<i>Day 2 : Module 2 – Consultation for coastal management</i>			
18	Goal of Coastal Zone Management	Prof. M.S. Swaminathan, MP	1000-1020
19	Application of shoreline change studies in ICZM	Prof. R. Ramesh	1020-1100
20	Tea / Coffee Break		
21	Coastal processes in Coastal Zone Management	Prof. John Pethick	1100-1200
22	Hazardline mapping-ICZM	Dr. Dharmaraj, SOI	1200-1300
23	Lunch		1300-1400
24	Implications of CRZ 1991 - 2011	Baba, Director (Rtd.), CESS, Trivandrum	1400-1500

25	Tea break		1500-1515
26	World Bank assisted ICZM Project	Shri. Tapas Paul, Senior Environment Specialist, The World Bank	1515-1615
27	Discussion on field visit area handouts, aim, objectives and outputs; and facilities	Prof. R. Ramesh	1615-1700
<i>Day 3 : Module 3 – Field visit to North Tamil Nadu Coast</i>			
28	Leave from Chennai to Pitchavaram	By Car	0730
29	Muttukkadu backwaters –Coastal tourism	Field Expert	0830
30	Coastal heritage site - Mahapalipuram	Field Expert	0930
31	Lunch at Chidambaram		
32	Pitchavaram mangrove forests	Field Expert	1600-1700
33	Nataraja temple- Chidambaram	Stay at Chidamabaram and visit to Nataraja temple	1900-0800
<i>Day 4 : – Field visit to North Tamil Nadu Coast and report preparation</i>			
34	Return back to Chennai		0800-1400
35	Refreshment at Pondicherry		1000-1030
36	National Centre for Sustainable Development		1400
37	Report preparation (4 Groups)	CRZ application in North Tamil Nadu coast	1400-1500
	Tea Break		1500-1515
38	Report presentation (15 minu. for each group)	CRZ application in North Tamil Nadu coast	1515-1615
39	Summary of presentation and conclusion remarks	Prof. Ramesh	1615-1700

SHORT COURSE ON INTEGRATED COASTAL ZONE MANAGEMENT

1. Aim of ICZM short course

To enhance the capacity of State Departments in preparation of Coastal Zone Management Plan (CZMP).

2. Objectives

At the end of the ICZM shore course the participants will enhance knowledge about

- ✓ principles and approaches for CZM plan preparation
- ✓ requisites of integrated plan preparation
- ✓ tools that support CZM plan preparation
- ✓ exposure in CZM plan preparation
- ✓ sharing of ideas and international best practice of ICZM

3. Duration

6 days

4. Targeted participants

As per CRZ 2011, coastal State Government / Union Territories shall submit the draft Coastal Zone Management Plans (CZMP's). It would be appropriate to establish inter departmental planning because, it is becoming more difficult to manage any one particular coastal natural resources or enhance one economic sector in the absence of a comprehensive, integrated, framework for policy planning and management. Hence, six days short course on Integrated Coastal Zone Management has been designed to benefit coastal State / Union Territories

Environment Departments, other departments those who have stake on the coastal and marine areas.

5. Course contents

The six day short course on Integrated Coastal Zone Management is conducted as a participatory training sessions to achieve the understandings of the boundary conditions of ICZM Plan development. The short course contains six modules and has been planned each module engage a full day. The six modules are; 1. ICZM components, principles and approaches 2. ICZM Policies of India 3. ICZM decision making tools 4. ICZM Planning 5. Case study - ICZM of Chennai coast 6. ICZM report preparation. Each session will be chaired by a subject specialist who will be delivering the content of the session by applying various participatory teaching-learning techniques. Other inter-disciplinary subject specialists, and international experts will also be present to provide knowledge support for comprehensive understanding of ICZM applications.

6. Expected outcome

Successful ICZM plans from the coastal states / Union Territories

7. Course module & schedule

Short course on Integrated Coastal Zone Management

<i>Day 1 : Module – ICZM principles</i>		
<i>Inaugural function</i>		
<i>Sessions</i>	<i>Theme</i>	<i>Schedule</i>
	<i>Day 1 : Module – ICZM components, principles and approaches</i>	
Session – 1	Coastal environment resources, uses and issues	1100-1230

Session – 2	Group work - ICZM word games	1230-1300
	Lunch	1300-1400
Session – 3	Social dimension of the coast	1400-1500
	Tea / Coffee	1500-1520
Session -4	Coastal environmental economics	1520-1600
Session - 5	ICZM principles benefits and approaches	1600-1700
<i>Day 2 : Module - ICZM Policies of India</i>		
Session - 6	”Final Frontier” a vision for Coastal Management of India	1000-1100
	Tea / Coffee	1100-1120
Session -7	Group discussion on agenda for coastal management	1120-1200
Session - 8	CRZ 2011 and ICZM guidelines	1200-1230
Session - 9	Group discussion - CRZ 2011	1230-1300
	Lunch	1300-1400
Session - 10	Delineation of hazard line	1400-1500
	Tea / Coffee	1500-1520
	Group exercise & discussion on hazard line	1520-1600
Session -11	Delineation of critically vulnerable coastal areas	1600-1630
Session - 12	Group exercise & discussion on hazard line	1630-1730
<i>Day 3 : Module - ICZM decision making tools</i>		
Session - 13	Application of GIS & Remote Sensing for ICZM	1000-1100
	Tea / Coffee	1100-1120
Session - 14	Risk valuation	1120-1200
Session – 15	Group exercise & discussion on risk valuation	1200-1300
	Lunch	1300-1400
Session - 16	Cost – benefit analysis	1400-1430
Session - 17	Group exercise & discussion on cost-benefit analysis	1430-1500
	Tea / Coffee	1500-1520
Session - 18	Database and knowledgebase development	1520-1600
Session – 19	Mathematical and computational models for coastal management	1600-1700
<i>Day 4 : Module - ICZM Planning</i>		
Session - 20	Coastal stakeholders	1000-1100

	Tea / Coffee	1100-1120
Session - 21	Group work on coastal stakeholder analysis of different CRZ categories	1120-1300
	Lunch	1300-1400
Session - 22	Media, communication strategies and advertisement for ICZM	1400-1500
	Tea / Coffee	1500-1520
Session - 23	Conflict management applications	1520-1600
Session - 24	Requisites of ICZM plan	1600-1700
Session - 25	Group - preparation for case study	1700-17030
<i>Day 5 : Module - Case study ICZM of Chennai Coast</i>		
Session - 26	Visit to North Chennai	0900-1200
	Lunch	1300-1400
Session - 27	Visit to South Chennai	1400-1800
<i>Day 6 : Module – ICZM report preparation</i>		
Session - 28	Group work – Report preparation on ICZM Plan for Chennai coast	1000-1100
	Tea / Coffee	1100-1120
	Group work – Report preparation on ICZM Plan for Chennai coast: Continue	1120-1300
	Lunch	1300-1400
Session - 29	Indicative strategy design for coastal environment management of Chennai	1400-1500
	Tea / Coffee	1500-1520
Session - 30	Report evaluation and discussion	1520-1630
Session - 31	Conclusion	1630-1700

TRAINING PROGRAMME ON INTEGRATED COASTAL MANAGEMENT

1. Aim of ICZM training program

To provide participants with a review of coastal management issues and problems, experiences with the process of coastal management and an integrated approach to problem solving and ICZM plan preparation.

2. Objectives

At the end of the course the objectives are that participants will have:

- gained an appreciation of the wide range of environmental, social and economic dimensions to coastal areas and the associated conflicts and problems
- experienced the complexity of the process of ICM through a case study
- engaged with and appreciate the ICM process through a training framework and matrix based decision making tool to identifying potential management solutions for a coastal area
- experienced a process of negotiation to arrive at a consensus approach to management issues identified from a case study area, and
- demonstrated their capability and capacity for ICM through writing an outline ICM plan

3. Participants

Participants of the workshop are coastal / marine stakeholder Departments of Central / State Governments and autonomous bodies of Government Departments. Participants of academic disciplines and industries are also been invited to participate the training programme.

4. Content

To achieve the aim and objectives, the training programme has been structured such that knowledge is presented within the context of coastal processes and activities, rather than individual disciplines. The training program contains three modules viz., 1. Coastal processes and ICM 2. An ICM case study and 3. Preparation of an ICM plan. The first module seeks to put into an ICM context the knowledge required in order to comprehend the natural, physical, social, economic and political processes that take place in the coastal zone. Each session is designed to ensure that knowledge is presented in a manner that promotes understanding of the linkages between processes and how they impact each other, rather than simply attempting to make participants more knowledgeable of academic disciplines. Practical examples to illustrate lectures are drawn from the case study area are introduced so that participants begin to engage with, and gain some secondary information about the case study area.

Under the module two, a case study on Chennai coast will be provided which will be an opportunity for participants to investigate the interactions between the environment and man, and *vice versa*. The approach taken is to allow participants the opportunity to experience real examples of coastal management issues, so that they may build their capacity as much through seeing and doing as hearing. The aim of the case study is to explore what issues arise in deciding a coastal management strategy for an area. The final module provides an opportunity for participants to engage in the process of analyzing their observations from the case study in order to establish management strategies and priorities, and identify possible management solutions and evaluate their likely success and impact on identifies issues and problems through participatory discussion. An important aspect of the final module is that participants work together as single or small number of groups so that they have to negotiate and arrive at a consensus for their management decisions and write an outline ICM plan for the case study area agreed upon within each group.

5. Duration

Three weeks

6. Outcome

At the end of the course participants would understand the important requisites and techniques for ICZM planning by experiencing.

7. Workshop module & schedule

	<i>Day1</i>	<i>Day2</i>	<i>Day3</i>	<i>Day4</i>	<i>Day5</i>
Week one	<i>Module1 – Coastal process and ICZM</i>				
Morning	Welcome	Coastal geomorphology	Climate	Coastal pollution	Spatio-temporal information
	ICZM & Sustainable Development	Biological resources	Coastal biodiversity	Functioning Coastal Ecosystems	Environmental economics
Afternoon	JIGSAW exercise	Social, economic & political dimensions	Coastal protection	Policy governance in ICZM	Coastal non-living resources
	ICM Training framework	Stakeholder analysis	Matrix tool	Risk assessment tool	Benefit cost tool
Week two	<i>Module 2 : An ICM case study</i>				
Morning	Series of field visits on each day to incorporate both group observation of Chennai case study area and organized meetings with stakeholders				Identify issues / problems
Afternoon					Implementation of ICM tools

Week three	<i>Module 3 : Preparation of an ICM plan</i>				
Morning	Summary of whole case study	Field work analysis	Field work analysis conti.	Briefing on outputs	Report presentation
Afternoon	Guidance for report writing	Field work analysis cont.	Report writing start	Report writing cont.	Report evaluation and valedictory

Contact

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Success of management doesn't come from doing "business as usual." You're either moving forward or you're in danger of becoming obsolete.