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# ANNEXURE I

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## SAARC Workshop on Coastal and Marine Risk Mitigation Plan for South Asia



*Organized by*

**SAARC Disaster Management Centre, New Delhi**

*In collaboration with*

**National Institute of Oceanography, Goa**

Goa

27-28 March 2008

### WORKSHOP SCHEDULE

**27 March 2008**

| <b>INAUGURAL SESSION</b> |   |   |
|--------------------------|---|---|
| 1000 – 1040              | <b>Welcome Address</b>  | Dr. Sanjay Srivastava<br>Head (designate), HDD, SDMC, New Delhi |
|                          | <b>Opening Remarks</b>  | Dr. Muhammed Ali<br>Director, SAARC CZM Centre, Male            |
|                          | <b>Special Remarks</b>  | Dr. M. Baba, Director, CESS, Thiruvananthapuram                 |
|                          | <b>Address by</b>   | Dr. A.A. Boaz, DG, SACEP, Colombo                               |
|                          | <b>Inaugural Address</b>  | Dr. S.R. Shetye<br>Director, NIO, Goa                           |
|                          | <b>Vote of Thanks</b>   | Dr. P.Vethamony,<br>Scientist, NIO, Goa                         |
| 1040 – 1110              | Tea Break and Group photograph  |   |
| <b>SESSION-I:</b>        | <b>COUNTRY PRESENTATIONS:<br/>Visions, Challenges and Opportunities on Coastal and Marine Risk Mitigation</b> |   |
| 1100 -1300               | <b>Chair:</b> Dr. Muhammed Ali, Director, SCZMC<br><b>Reporteur:</b> Dr. D.D Joshi and Mr. D. Ilangovan       |   |
|                          | <b>Bangladesh:</b> Dr. Mohammed Zafar<br><b>India:</b> Dr. K.M. Sivakholundu and Dr.Patanjalikumar            |   |

|                   |  |
|-------------------|--|
|                   | <b>Maldives:</b> Mr. Murthalla M. Didi<br><b>Pakistan:</b> Capt. S.M. Shehzad<br><b>Sri Lanka:</b> Mr. W.B.J. Fernando   |
| 1300 – 1400       | Lunch Break  |
| 1400 - 1445       | Keynote presentation on Coastal and Marine Hazard Mitigation and CZM in South Asia by <b>Dr. Bjoern Braaten</b> , Norwegian Institute for Water Research, <b>Norway</b>  |
| <b>SESSION-II</b> | <b>MITIGATION PLAN FOR MARINE HAZARDS AND RISKS IN SOUTH ASIA - ISSUES FOR NATIONAL ACTION AND REGIONAL COOPERATION</b>  |
| 1445 – 1610       | <b>Oil spills, pipeline leakages, accidents, etc</b><br><b>Chair:</b> Dr. Mohammed Zafar<br><b>Reporteur:</b> Dr.M.T.Babu and Dr. Binod Sakya<br><br><b>India:</b> Cdt S.K.Singh.<br><b>Pakistan:</b> Mr. Mhd Yasoan Janjua<br><b>Sri Lanka:</b> Mr. K.D.D. Wijewardene<br><b>Maldives:</b> Dr. Muhammed Ali |
| 1610 – 1630       | Tea Break  |
| 1630 – 1800       | Visit to NIO, Goa (organized by Mr.A.Mahale and Mr.D.Ilangovan)  |

### 28 March 2008

|                    |  |
|--------------------|--|
| <b>SESSION-III</b> | <b>MITIGATION PLAN FOR COASTAL HAZARDS AND RISKS IN SOUTH ASIA - ISSUES FOR NATIONAL ACTION AND REGIONAL COOPERATION</b>   |
| <b>III-A</b>       | <b>Strom surges, Tsunami, Climate change and Sea Level Rise</b>  |
| 0930 -1100         | <b>Chair:</b> Mr. Mhd Yasoan Janjua<br><b>Reporteur:</b> Dr. K.M. Sivakholundu and Dr. Antony Joseph<br><b>India:</b> Dr. A.D. Rao, Dr A.S. Unnikrishnan, Dr. Antony Joseph<br><b>Pakistan :</b> Mr. Mhd Yasoan Janjua<br><br><b>Other SAARC countries</b> |
| 1100 – 1120        | Tea Break  |
| <b>III-B</b>       | <b>Coastal Environment</b>   |
| 1120-1300          | <b>Chair:</b> Dr. Antonio Mascarenhas<br><b>Reporteur:</b> Mr. R.Mani Murali and Dr. Binod Sakya<br><b>India:</b> Dr (Mrs) Classy D’Silva, Dr A.C. Anil<br>Dr. Antonio Mascarenhas and Dr. G.N. Nayak<br><br><b>Other SAARC countries</b>                  |
| 1300 – 1400        | Lunch break  |
| <b>III-C</b>       | <b>Coastal Erosion</b>   |
| 1400 - 1500        | <b>Chair:</b> Dr. M. Baba, Director, CESS, Thiruvananthapuram<br><b>Reporteur:</b> Dr. D.D.Joshi and Dr.V. SanilKumar<br><b>India:</b> Dr. M. Baba, Dr.V. SanilKumar and P.Vethamony<br><br><b>Other SAARC countries</b>                                   |
| <b>III-D</b>       | <b>Capacity Building</b>   |
| 1500 - 1620        | <b>Chair:</b> Dr. A.A. Boaz<br><b>Reporteur:</b> Dr. H.B.Menon and Dr. D.D.Joshi<br><b>India:</b> Dr. P.K.Champati Ray, Dr. Sanjay Srivastava, Dr. M.T. Babu and Mr. Andrew Menezes  |

|                            |   |
|----------------------------|---|
|                            | <b>Other SAARC countries</b>  |
| 1620-1640                  | Tea break   |
| <b>SESSION-IV</b>          | <b>DEVELOPMENT OF A TEMPLATE FOR COASTAL AND MARINE RISK MITIGATION PLAN FOR SOUTH ASIA</b>   |
| 1640 – 1800                | <b>Chair:</b> Mr. W.B.J. Fernando<br><i>This would be an Open House Session which would discuss a Draft Framework of a Template for the National and Regional Plans for Coastal and Marine Risk Mitigation Plan for South Asia.</i> |
| <b>VALEDICTORY SESSION</b> |   |
| 1800-1820                  | <i>Workshop Summary: SDMC</i>   |

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# ANNEXURE II

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## *List of Participants*

### **Bangladesh**

1. Mr. Mir Ahmed, Dy. Secretary  
Ministry of Food and Disaster Management,  
Dhaka, Bangladesh  
Tel: 02-7162145, Fax: 01714309376  
Email: [mirahmed99@gmail.com](mailto:mirahmed99@gmail.com)
2. Dr. Mohammad zafar, Professor  
Institute of Marine Sciences & Fisheries,  
University of Chittagong (Bangladesh)  
Tel: 88031-682654, Fax: 88031-726310  
Email: [zafarims@yahoo.com](mailto:zafarims@yahoo.com)

### **Maldives**

1. Mr. Murthala Mohamed Didi, Director  
National Disaster Management Centre,  
Rep. of Maldives.  
Tel: +(960) 3333431, Fax: +(960) 3333443  
Email: [murthala.didi@ndmc.gov.mv](mailto:murthala.didi@ndmc.gov.mv)
2. Dr. Mohamed Ali, Director,  
SCZMC, 4th Floor, Jamaludeen Complex,  
Male', Maldives.  
Tel: (960) 3315976  
Email: [emaly07@hotmail.com](mailto:emaly07@hotmail.com)
- 3.. Ms. Fathimath Shehezinee, Programme Officer  
SAARC Coastal Zone Management Centre,  
Jamaaluddeen Complex, 5th Floor, Nikagas Magu,  
Male, Rep. of Maldives.  
Tel: +(960) 7786606, +(960) 3315977  
Fax: +(960) 3316088

Email: [shehezinee@sczmc.org](mailto:shehezinee@sczmc.org)

## Pakistan

1. Capt. S. M. Shahzad, Director  
MA&EC, NHQ, E-9, Islamabad, Pakistan.  
Tel: 009251-20062661(Off), 009251-20063490(Resi)  
0092-300-500-1008(cell)  
Email: [smfoe@hotmail.com](mailto:smfoe@hotmail.com)
- 2.. Mr. Muhammad Yasin Janjua, Deputy Secretary  
Ministry of Environment,  
Islamabad, Pakistan.  
Tel: 009251-9245563(off), 009251-5702609  
Email: [mehtab\\_moon@yahoo.com](mailto:mehtab_moon@yahoo.com)

## Sri Lanka

1. Mr. W. B. J. Fernando, Consultant  
Ministry of Disaster Management & Human Rights,  
Sri Lanka  
Tel: 94-11-2505149  
Fax: 94-11-2502611  
Email: [conmdm@sltnei.lk](mailto:conmdm@sltnei.lk)
2. Mr. K. D. D. Wijewardane,  
Chief Engineer (Research and Designs)  
Coast Conservation Department,  
4th Floor, New Secretariat,  
Maligawalte, Colombo-10 (Sri Lanka)  
Tel: 94-11-2388366  
Email: [kddwijewardane@tishris.goo.lk](mailto:kddwijewardane@tishris.goo.lk)
3. Ms. W. N. C. Priyadarshani, Oceanographer  
National Aquatic Resources Research & Development Agency (NARA),  
Crow Island, Mattakkuliya, Colombo-15 (Sri Lanka)  
Tel: 94-11-2521008, 94-77-7195631(mobile)  
Email: [wncpriya@yahoo.com](mailto:wncpriya@yahoo.com); [priya@nara.ac.lk](mailto:priya@nara.ac.lk)
4. Dr. Arvind Boaz, Director  
South Asian Cooperative Environment Program,  
10, Anderson Road  
Off Dickmans Road, Colombo-5 (Sri Lanka)  
Tel:+94112589376, Fax: +94112589369  
Email: [draboaz@yahoo.com](mailto:draboaz@yahoo.com)

## Norway

1. Bjo"rn Braaten, Senior Scientist  
Aquaculture Environmental Pollution  
Norwegian Institute for Water Research,  
Niva Branch Office South, Televeien – 3  
N-4879 Grimstaa, Norway  
Tel: +47-22185100,47-91811082(mobile)  
Email: [bjoern.braaten@niva.no](mailto:bjoern.braaten@niva.no)

## India

1. Dr. Sanjay Srivastava, Head- HDD  
SAARC Disaster Management Centre,  
IP Estate, Ring Road, IIPA Campus, NIDM Building,  
New Delhi-110002  
Tel: 91-9449456522  
Email: [sanjay.isro@gmail.com](mailto:sanjay.isro@gmail.com)
2. Dr. P. K. Champati Ray, Scientist-F  
I.I.R.S, 4- Kalidas Road, Dehradun-248001  
Tel: +91-135-2745516, +91-135-2524156  
Fax: +91-135-2741987  
Email: [champati\\_ray@iirs.gov.in](mailto:champati_ray@iirs.gov.in)
3. Dr. Binod Shakya,  
Specialist (Climate & Water, Hydromet Division),  
SAARC Disaster Management Centre,  
IP Estate, Ring Road, IIPA Campus, NIDM Building,  
New Delhi-110002  
Tel: 911123702432(Extn:107), 911123724051(Direct)  
Fax: 911123702446  
Email: [bshakya.saarc@mail.org](mailto:bshakya.saarc@mail.org)
4. Dr. D. D. Joshi, Specialist  
SAARC Disaster Management Centre,  
IP Estate, Ring Road, IIPA Campus, NIDM Building,  
New Delhi-110002  
Tel: 09910595156 (Mobile)  
Email: [ddattjoshi@yahoo.co.in](mailto:ddattjoshi@yahoo.co.in)
5. Dr. G. N. Nayak, Professor & Head  
Department of Marine Sciences,  
Goa University, Goa-403206 (India)  
Tel: 0832-6519059(off), 0832-2458468(Resi)  
09822725032(mobile)  
Email: [nayak1006@rediffmail.com](mailto:nayak1006@rediffmail.com)
6. Dr. Antony Joseph, Scientist  
National Institute of Oceanography, Goa (India)

Tel: 0832-2450349(off), 0832-2459503(res)  
Email: [joseph@nio.org](mailto:joseph@nio.org)

7. Dr. (Mrs.) Classy D'Silva, Scientist-F  
National Institute of Oceanography, Goa (India)  
Tel: 0832-2450436(off), 0832-2453460(res)  
Email: [classy@nio.org](mailto:classy@nio.org)
8. Commandant S. K. Singh, Director  
(Fisheries & Environment)  
CGHQ, New Delhi.  
Tel: 011-23074131, 09312708794  
Email: [dfecghq@gmail.com](mailto:dfecghq@gmail.com)
9. Dr. K. M. Sivakholundu, Scientist  
NIOT, Chennai.  
Tel: 044-66783469  
Email: [kmsiva@niot.res.in](mailto:kmsiva@niot.res.in)
10. Dr. M. Baba, Director  
Centre for Earth Science Studies,  
Trivandrum – 31.  
Tel: 0471-2442187, Fax: 0471-2442280  
Email: [dr.mbaba@gmail.com](mailto:dr.mbaba@gmail.com)
11. Dr. A. Mascarenhas, Scientist  
National Institute of Oceanography (NIO),  
Dona Paula-403004, Goa (India)  
Tel:+91-832-245035  
Email: [mascarenhas@nio.org](mailto:mascarenhas@nio.org)
12. Dr. A.D. Rao, Professor  
Centre for the Atmospheric Science,  
I.I.T Delhi, Hauz Khas, New Delhi-110016  
Tel: +91-9868773670  
Email: [adrao@cas.iitd.ernet.in](mailto:adrao@cas.iitd.ernet.in)
13. Dr. A. S. Unnikrishnan, Scientist  
National Institute of Oceanography (NIO),  
Dona Paula-403004, Goa (India)  
Tel: +91-832-2450311(Off.)  
Email: [unni@nio.org](mailto:unni@nio.org)
14. Dr. (Mrs.)Sugandha Sardesai, Scientist  
National Institute of Oceanography (NIO),  
Dona Paula-403004, Goa (India)  
Tel: +91-832-2450290, 91-832-2450607  
Email: [sugandha@nio.org](mailto:sugandha@nio.org)
15. Dr. H.B. Menon, Reader  
Department of Marine Science,

Goa University, Goa (India)  
Tel: +91-832-6519350, 91-832-2451340  
Email: [hbmenon@unigoa.ac.in](mailto:hbmenon@unigoa.ac.in)

16. Dr. A.C. Anil, Scientist  
National Institute of Oceanography (NIO),  
Dona Paula-403004, Goa (India)  
Tel: +91-832-2450404  
E-mail : [acanil@nio.org](mailto:acanil@nio.org)
17. Dr. P. Vethamony, Scientist  
National Institute of Oceanography (NIO),  
Dona Paula-403004, Goa (India)  
Tel: +91 832 2450473, Fax: + 91 832 2450608  
Email: [mony@nio.org](mailto:mony@nio.org)
18. Dr. M.T. Babu  
National Institute of Oceanography (NIO),  
Dona Paula-403004, Goa (India)  
Tel: +91 832 2450473, Fax: + 91 832 2450608  
Email: [mtbabu@nio.org](mailto:mtbabu@nio.org)
19. Mr. D. Ilangovan  
National Institute of Oceanography (NIO),  
Dona Paula-403004, Goa (India)  
Tel: +91 832 2450282, Fax: + 91 832 2450608  
Email: [ilango@nio.org](mailto:ilango@nio.org)
20. Mr. R. Manimurali  
National Institute of Oceanography (NIO),  
Dona Paula-403004, Goa (India)  
Tel: +91 832 2450389, Fax: + 91 832 2450608  
Email: [mmurali@nio.org](mailto:mmurali@nio.org)
21. Mr. K. Sudheesh  
National Institute of Oceanography (NIO),  
Dona Paula-403004, Goa (India)  
Tel: +91 832 2450473, Fax: + 91 832 2450608  
Email: [sudheesh@nio.org](mailto:sudheesh@nio.org)
22. Mr. S. K. Das  
National Institute of Oceanography (NIO),  
Dona Paula-403004, Goa (India)  
Tel: +91 832 2450473, Fax: + 91 832 2450608  
Email: [skdas@nio.org](mailto:skdas@nio.org)
23. Ms. Deepthi  
National Institute of Oceanography (NIO),  
Dona Paula-403004, Goa (India)  
Tel: +91 832 2450473, Fax: + 91 832 2450608

24. Ms. Dhanya  
National Institute of Oceanography (NIO),  
Dona Paula-403004, Goa (India)  
Tel: +91 832 2450473, Fax: + 91 832 2450608
25. Ms. Rashmi  
National Institute of Oceanography (NIO),  
Dona Paula-403004, Goa (India)  
Tel: +91 832 2450473, Fax: + 91 832 2450608
26. Mr. Manu. P. John  
National Institute of Oceanography (NIO),  
Dona Paula-403004, Goa (India)  
Tel: +91 832 2450473, Fax: + 91 832 2450608
27. Mr. Saheed. PP  
National Institute of Oceanography (NIO),  
Dona Paula-403004, Goa (India)  
Tel: +91 832 2450473, Fax: + 91 832 2450608
28. Mr. Renjith. V.R  
National Institute of Oceanography (NIO),  
Dona Paula-403004, Goa (India)  
Tel: +91 832 2450473, Fax: + 91 832 2450608

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# ANNEXURE III

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## **Template - I**

### ***Outline for National Coastal and Marine Risk Mitigation Plan***

1. Country
  - ☐ Population
    - Population below poverty line
    - Male/Female Ratio
    - Population of age group above 60 yrs
  - ☐ Coastal Population (within 5 km from coast)
  - ☐ Geographical Areas
  - ☐ Coastline
  
2. Major Coastal Disasters
  - ☐ Frequency
  - ☐ % Population Affected
  - ☐ % Geographical Areas Perceived Vulnerability to Climate Change – Sea level rise, adaptation issues
  
3. Status of Pre-disaster preparedness
  
4. Status of Early Detection and Warning Systems for:
  - ☐ Cyclone
  - ☐ Storm Surge
  - ☐ Tsunami
  - ☐ Coastal Flooding
  - ☐ Coastal Erosion Whether a part of International/ Regional Warning Systems (WMO, IOC.)
  
5. Status of Monitoring Mechanism(for each risk)
  
6. Status of Response Mechanism
  
7. Hazard Zonation/Vulnerability Mapping
  - ☐ Availability of Maps
  - ☐ Mapping Scale

- ☐ Available in Digital/Analog Forms
8. Institutional Framework for Coastal and Marine Risk Assessment
    - ☐ Science & Technology agencies/establishment
    - ☐ Operational set-up
    - ☐ Community/NGO level
    - ☐ Training, education and other capacity building agencies
  9. Legal & Legislative Framework
    - ☐ Coastal Zone Management Plan
    - ☐ Structural Measures
    - ☐ Non-structural Measures
  10. Critical Needs based on assessment of existing national programmes
    - ☐ Early Warning
    - ☐ Hazard Zonation/Risk Assessment
    - ☐ Mitigation Plans
    - ☐ Policy/Institutional
    - ☐ Training Needs
  11. Elements of National Mitigation Plans
    - ☐ National Priorities towards conservation, development, coastal zone management
    - ☐ Structural/Non-structural Measures
    - ☐ Scale of Plan (1: 250,000 or more)
  12. Assessment of synergy between the Coastal Zone Management Plan and Coastal Hazard Mitigation strategy
  13. Major Issues for Regional Cooperation
    - ☐ Networking (Observational networks & Knowledge institutions)
    - ☐ Early Warning
    - ☐ Capacity building
    - ☐ Joint Projects
  14. Expectations from SDMC on preparation of national mitigation plan
    1. To assess the capacity building needs of different national agencies through consultation
    2. To design user oriented need based capacity building programmes
    3. to facilitating in executing capacity building programmes.....
  15. Any other point

## **Template - II**

### ***Outline for National Coastal and Marine Risk Mitigation Plan***

1. Specific Areas (or problems/ issues) for Regional Cooperation
  
2. Outline the strategies/ solutions addressing the critical areas in National Mitigation Plans through Regional Cooperation
  
3. Elements of Regional Coastal and Marine Risk Mitigation Plan
  
4. Scale of Mapping for Regional Mitigation Plans  
(1:>1 Million, 1: 250K or better)
  - ☐ Sources of data/info for aggregation at regional level
  - ☐ Whether it will be seamless to National Mitigation Plans;
  - ☐ What could be the possible layers for vulnerability assessment – geo-physical, climatic, socio-economic & ecological?
  - ☐ Name the best practices suiting to the approach of the regional mitigation plans.
  
5. Approach to encourage participatory efforts on preparing Regional Mitigation Plan
  
6. Suggested Work Plan for SDMC in Preparation of Regional Mitigation Plan for Reducing Coastal and Marine Risks
  
7. Any other point