

NDEM Regional Training Programme-South

Held on 30th July 2015
Institute of Land and Disaster Management, Thiruvananthapuram

Organized by
National Remote Sensing Centre (NRSC), ISRO, Government of India, Hyderabad-500037
&
State Emergency Operations Centre, KSDMA, Dept. of Disaster Management, Govt. of Kerala



State Emergency Operations Centre
Kerala State Disaster Management Authority
Department of Revenue and Disaster Management, Govt. of Kerala
Institute of Land and Disaster Management
PTP Nagar, Thiruvananthapuram 695038
Tel/Fax: 0471-2364424. Email: seoc.gok@gmail.com
Web: <http://disasterlesskerala.org>

Government Authorization letter no. 36518/K1/2015/DMD/dated 15/06/2015

Prepared by Ms. Anupama N, Project Fellow	Approved by Dr. Sekhar L. Kuriakose, Member, KSDMA & Head (Scientist)
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Trainers

1. Mr. Bhanumurthy, Group Director, Disaster Management Group & Project Director of NDEM, ISRO, Hyderabad
2. Dr. Ram Mohan Rao, Manager, NDEM, NRSC, ISRO, Hyderabad
3. Mr. M.P Sharma, Scientist F, SAC, ISRO, Hyderabad
4. Mr. Brajesh Kumar, Research Scientist, NDEM, NSRC, ISRO, Hyderabad

Programme Schedule

09:30- 10:00	Registration
10:00 -10:05	Welcome
10:05- 10:45	NDEM project Objective & Status
10:45 - 11:00	Coffee/Tea
11:00 - 11:45	NDEM VPN Portal Version 2.0
11:45 - 12:30	VPN Connectivity Operations
12:30 - 13:00	Demonstration of NDEM Public Portal
13:00 - 14:00	Lunch
14:00 - 15:30	Demo & Hands on Session - NDEM private and Public portals
15:30-15:45	Coffee/Tea
15:45- 16:45	Demo & Hands on Session - Mobile Applications
16:45-17:15	Discussions & Conclusions

National Database for Emergency Management (NDEM Version 2.0)

NDEM stands for National Database Emergency Management. It consists of multi scale data bases along which help disaster managers in managing disasters. NDEM is conceived as a GIS based repository of data to support disaster emergency management in the country. As the different datasets ingesting into the NDEM are generated by or available with different organizations agencies the implementation of NDEM is planned as a multi institutional coordinated effort. The Committee of Secretaries entrusted the task of designing, Developing and implementing of NDEM to Indian Space Research Organization (ISRO), Department of space (DOS), the National Remote Sensing Centre (NRSC) is the lead agency to implement and operationalize NDEM for Ministry of Home Affairs (MHA).

Training programme registration started at 9.30am. Mr. Joe John George, State Project Officer, UNDP, SEOC, Thiruvananthapuram gave a warm welcome to the trainers and participants on behalf of Govt. of Kerala.

NDEM project objectives & status

Mr. V. Bhanumurthy briefly explained NDEM project objective & status. He explained NDEM is conceived as a GIS based repository of data to support disaster/emergency management in the country. The database enabled development of decision support system in the form of customized user interfaces with necessary security mechanism.

Objectives of NDEM

- Organization of multi-scale geo-spatial data base for entire country at 1:50,000 scale, data on 350 multi hazard prone districts; 1:10,000 scale data for mega cities
- Development of Decision Support System (DSS) tools for addressing disaster emergency management
- Establishing computer infrastructure to facilitate network connectivity data ingest, validation, GIS data base organization, data dissemination and services hosting

After tea break Mr. Brajesh Kumar presented NDEM VPN portal Version 2.0. NDEM web portal was designed and developed using open source tools with multi-

level authentication facilities for accessing by concerned state and central department. Improved version of web based geo-portal for NDEM version 2.0 is launched on May 2005. <http://10.254.7.15>. The new version is integrated with standard database services along with disaster management dash board, utility tools improved Decision Support System tools seamless integration of IDRN health data base, report generation in graph tabular format and interaction portal to communicate to all state holders of NDEM. The NDEM portal was enabled on ISRO-DMS satellite based virtual private network (VPN).

ISRO established this DMS VPN at selected state emergency operation centres, Nodal departments CWC, IMD, GSI and also important central departments such as MHA, NDMA, cabinet secretaries.

Dr. Ram Mohan Rao and Mr. Brajesh Kumar Demonstrated by NDEM public portal-through Bhuvan platform on Internet.

NDEM public portal is having non classified subset of data repository and relevant disaster specific products & services over internet connectivity. This portal is deployed through Bhuvan platform, which is a gateway to Indian Earth Observation data products & services. NDEM public portal facilitate the user to select, browse and query the disaster specific products along with thematic data, satellite imagery, terrain profile and on line geo-processing services for all natural disasters. Event based disaster products such as flood, cyclone, forest fire, landslide, earthquake and drought layers are provided for decision making.

Next session was handled by Mr. M.P. Sharma. He presented VPN connectivity Operations. ISRO-DMS VPN network operates in extended C band transponder of GSAT#12 satellite. It enables two-way connectivity between National Emergency Operation Centre and State Emergency Operation Centres for Disaster Management related interaction. Each node can transfer data in the form of video, data and voice communication simultaneously.

NDEM VPN Portal contains:

- News and alerts
- Active Disaster Details

- Restricted Data Access
- IDRN and Health Database
- Interaction portal
- Multi state info viewer
- Historical Disaster Database
- Reports and Maps
- Mobile Application
- Content Management System

The network operates on demand based band width allocation to avoid congestion during any major disaster. The state nodes are located at capital of multi hazard prone states interconnected with NEOC. Demonstration & hands on session was conducted in the NDEM private and public portals and mobile application in the afternoon session. This session was handled by Dr. Ram Mohan Rao and Mr. Brajesh Kumar.

The programme concluded at 5.00 pm with several participants expressing their appreciation regarding programme organization. Participants including Mr. Bhanumurthy thanked the sincere and untiring efforts of Mr. G.S Pradeep, SEOC for the coordination and successful completion of the programme.

Recommendations of SEOC to Government for kind consideration based on the resolutions of the workshop

1. A dedicated person with post-graduation in Geoinformation Science or Geoinformatics has to be designated as Database Manager in the SEOC for the upkeep of NDEM, InDIS and IDRN data bases as there are three databases which need to be concurrently updated and maintained, each of them having GIS as a major component. Two personnel of SEOC has received training in handling NDEM, they being Ms. Amruta Thampi Rajan, JRF and Ms. Anupama N, Project Fellow. One of them may be converted as Database Manager of SEOC (on contract) with the consolidated pay equivalent to that of Junior Research Fellow of SEOC.

2. Financial support for maintaining the personal and the infrastructure maintenance may be made available from the SDRF/NDRF Capacity Building allocation of 5% for the 2015-2020 period as approved by Ministry of Home Affairs, Govt of India.
3. The VSAT based NDEM node presently located at the Commissionerate of Land Revenue may be relocated to the SEOC

List of participants

Sl. No	Name	Organization
1.	Dr. S.A.Muthukrishnan	GIS Specialist, Tamil Nadu SDMA
2.	Ms. Amrutha Thampi Rajan	Researcher, SEOC, Kerala
3.	Ms. Anupama N	Project Fellow, SEOC Kerala
4.	Dr. G.S.Srinivasa Reddy	Director, KSNDMC
5.	Ms.S.Emily Prabha Jothi	Project Scientist, KSNDMC
6.	Dr.B.N.Rashmi	Project Scientist, KSNDMC
7.	Shri V.Mahadevan	Tahsildar, O/o Special Secretary(Revenue)-cum-District Collector, Puducherry
8.	Shri K.K.Vibeesh	Deputy Tahsildar, O/o Special Secretary(Revenue)-cum-District Collector, Puducherry
9.	Shri Vinoj P Josheph	NDRF
10.	Shri B N Munda	NDRF
11.	Shri Amit Kumar	NDRF
12.	Shri Sohan Singh	NDRF
13.	Shri Sandeep K	NDRF
14.	Shri Pool Pandi	NDRF
15.	Dr. K.Ashoka Reddy	Scientist, KRSAC
16.	Shri G. Prasada Rao	Scientist-SE, APSAC
17.	Director(Admn) I/C	APSAC
18.	Shri Vadodaria Karanjit	Additional District Magistrate, Lakshadweep
19.	Shri M.K.Cheriakoya	Deputy Collector, Lakshadweep
20.	Shri Mohammed Iqubal K	Head Draftsman, Lakshadweep
21.	Shri P.K.Sayed Ashraf	UDC Collectorate, Lakshadweep
22.	Dr. Paramesha J R	Faculty, Centre for Disaster Management, ATI Karnataka
23.	Shri Prashanth Kumar	Regional Coordinator(Disaster Management), O/o Principal Secretary to Government Karnataka
24.	Shri J.V.Thomas	Programme Manager, DMS
25.	Shri V.Bhanumurthy	NRSC, Hyderabad
26.	Shri K.Ram Mohana Rao	NRSC, Hyderabad
27.	Shri Brajesh Kumar	NRSC, Hyderabad
28.	Shri M.P.Sharma	SAC, New Delhi

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State Emergency Operations Centre (SEOC) Thiruvananthapuram- Kerala.



State Emergency Operations Centre (SEOC)					
Department of Disaster Management, Thiruvananthapuram					
Account Statement Submitted to NRSC, ISRO, Govt. of India, Hyderabad					
NDEM Regional Training Programme on July 30, 2015					
Sl No.	Date	Bill No./ Voucher No.	Expended for	Details	Amount
1	27-07-2015	Bill No.30253/E	Miscellaneous Expenses	Purchase of Tea bags for ILDM Gust House	320
2	29-07-2015	Bill No.A11055	Food and Beverages	Lunch for NDEM Training Delegates	750
3	29-07-2015	Receipt No.14	Travelling purpose - vehicle hiring charges	Vehicle hiring charges(one day) of KL 23 H 8877 for Delegates	3200
4	29-07-2015	Receipt No.31	Travelling purpose- vehicle hiring charges	Vehicle hiring charges of KL 22 F 1353 for Delegates	2650
5	29-07-2015	Voucher No.1	Communication Expenses	Topup mobile recharge coupon	180
6	30-07-2015	Order No. P010006	Miscellaneous Expences	Photo designing charges (Group photo)	90
7	30-07-2015	Order No. P010008	Miscellaneous Expences	Photo Printing Charges	1500
8	30-07-2015	Receipt No.32	Travelling purpose- vehicle hiring charges	Vehicle hiring charges(One day) of KL 22 F 1353 for Delegates	3100
9	30-07-2015	Receipt No.15	Travelling purpose- vehicle hiring charges	Vehicle hiring charges(one day) of KL 23 H 8877 for Delegates	3400
10	30-07-2015	Bill No.200	Food and Beverages	Catering-Queens caters - High Tea, Lunch (buffet), Dinner and mineral water for Training programme	18990
11	30-07-2015	Voucher No.2	HR cost	Daily wages charges for cleaning the Seminar hall and dinning hall	400
12	31-07-2015	Receipt No.4	Traveling purpose - Vehicle hiring charges	Vehicle hiring charges of KL 22 F 1353 for Delegates	2600
13	31-07-2015	Receipt No.16	Traveling purpose - Vehicle hiring charges	Vehicle hiring charges of KL 23 H 8877 for Delegates	1420
Grand Total expended (Rupees Thirty Eight Thousand Six Hundred only)					38,600/-

The above accounts with authenticated copies of the bills have been submitted to National Remote Sensing Centre as NRSC has agreed to pay towards these expenses as per the letter no. NRSC/RSAA/NDEM/2015-06 dated 26th May 2015