FIRST BRAIN STORMING SESSION FOR SOUTHERN ENVIS CENTRES

**ENVIS CENTRE KERALA
KERALA STATE COUNCIL FOR SCIENCE TECHNOLOGY
AND ENVIRONMENT (KSCSTE)**

Dr. Kamalakshan Kokkal
Joint Director and ENVIS Coordinator

MAJOR ACHIEVEMENTS OF THE ENVIS CENTRE KERALA FOR THE LAST FIVE YEARS

- The MoEF &CC has sanctioned ENVIS Centre to the KSCSTE since 2005. It was a successor of the ENVIS node which came into existence in May 2003

- The focus of ENVIS Centre is to provide environmental information to decision makers, policy planners, scientists and engineers, research workers etc all over the country.

- It is very useful for the information gathering community for accessing information through modern technologies like website, online query-answer service, etc

- The centre is also disseminating information to the society through newsletters, booklets, various awareness programmes etc

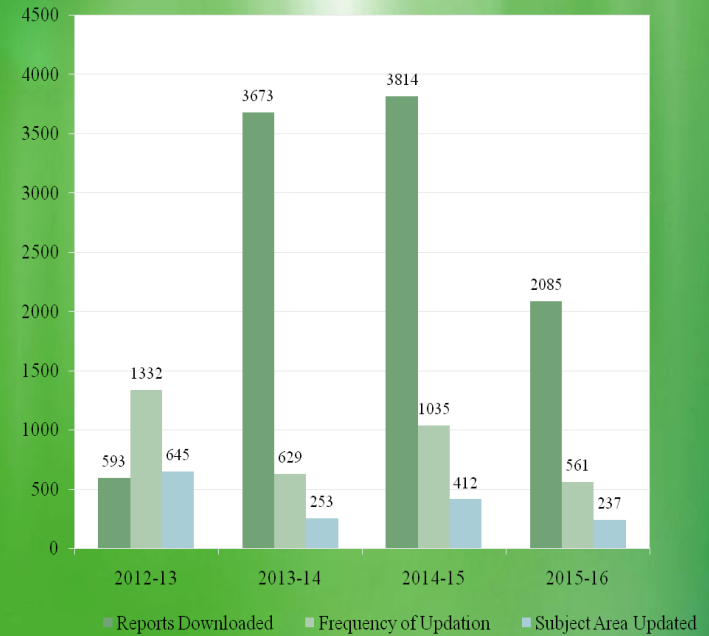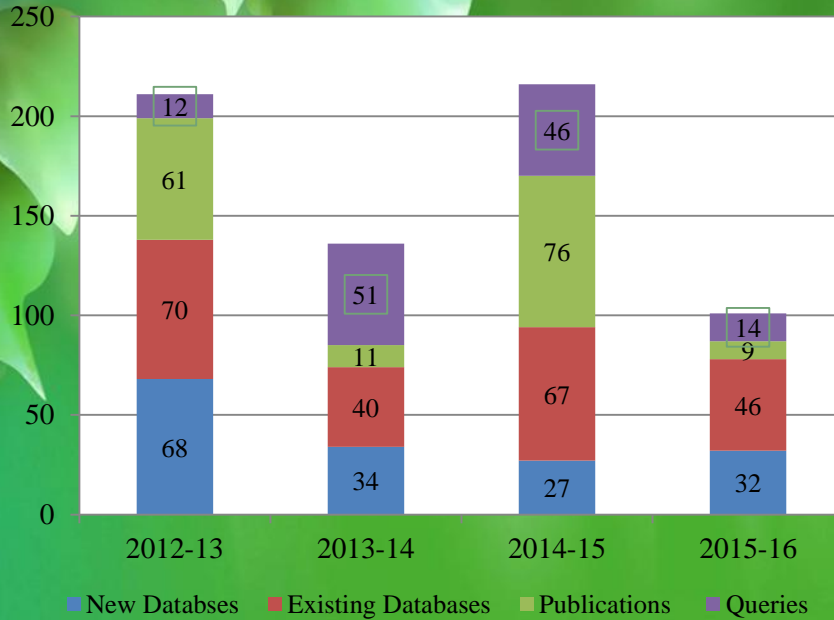# FINANCIAL ASSISTANCE FROM MOEF&CC FOR THE LAST FIVE YEARS

Year	Amount Sanctioned (in Rs)	Amount Utilised (%)
2012-13	815253/-	92%
2013-14	1260000/-	93%
2014-15	1280268/-	98%
2015-16	1354536/-	99.6%

ACHIEVEMENTS FOR THE LAST FIVE YEARS

WEBSITE STATISTICS

Year	2012-13	2013-14	2014-15	2015-16	Total
New Databases	68	70	61	12	161
Existing Databases	34	40	11	51	223
Publications Updated	27	67	76	46	157
Queries	32	46	9	14	123
Reports Downloaded	593	3673	3814	2085	10135
Frequency of Updation	1332	629	1035	561	3557
Subject Area Updated	645	253	412	237	1547
No of Visitors	187935	583181	643241	465657	1880014
No of Unique Visitors	20462	51776	55208	80479	207925

ACHIEVEMENTS FOR THE LAST FIVE YEARS

INDIAN STATE LEVEL BASIC ENVIRONMENTAL INFORMATION DATABASE (ISBEID)

• For the development of ISBEID, periodic (Yearly/Monthly) data were collected from various Government departments/agencies.

•Reports from various research institutes and data from reliable online sources were also collected

•All the 17 modules, sub modules and fields were updated during the last 5 years

Modules	2012-13	2013-14	2014-15	2015-16
Administrative Profile	1860	3180	7780	448
Infrastructure	84	517	1038	560
Energy	224	40	708	140
Agriculture	586	8135	3244	504
Industries	0	736	84	280
Tourism & Heritage	0		0	0
Natural Resources	364	4115	2016	784
Forest Resources	0	1076	460	56
Water Resources	0	1122	224	252
Ground Water Resources	168	90	728	84
Ecology	0	2204	504	28
Sanitation	0	10471	686	0
Water Pollution	4116	10584	8820	4704
Air Pollution	5292	3008	1176	574
Disaster	0	16	0	0
Biodiversity	0	696	0	0
Waste	0	1585	84	2
Total	**12694**	**47575**	**27552**	**8416**
Total Number of Entries made 2012-15	**96237**			

BHUVAN PORTAL UPDATIONS

No	DATA UPLOADED TO BHUVAN PORTAL		
1	Air Quality	9	Reservoirs of Kerala
2	CCME Water Quality Index of 16 River Basins of Kerala	10	Dams of National Importance
3	Forestry and Ecology National Parks in Kerala	11	Dams in Kerala
4	Diseases case and death 2014	12	Meteorological Stations under Trivandrum
5	Historical Monuments of Kerala	13	Ecotourism destinations- Kerala
6	District wise Sex ratio 1901-2011	14	Forest Area cover Kerala
7	Ramsar Sites of Kerala	15	Wildlife Sanctuaries Kerala
8	Freshwater Lakes of Kerala	16	POI Data of Aerobic Bin Unit at Trivandrum
	SHAPE FILES		
1	Wetlands of Kerala- 6 Districts	2	Road Networks of Thiruvananthapuram District
3	Tahsils of India		

PUBLICATIONS

- **Books/ Newsletters**
  - i. 16 Issues of Newsletters
  - ii. Book on Environmental Monitoring Programme on Water Quality 2012-2016
  - iii. State of Environment Report for Lakshadweep
- **Posters**
  - i. Environmental Information System (ENVIS)
  - ii. International Year of Pulses
  - iii. International Year Soil
  - iv. Climate Change
- **Pamphlets**
  - i. Environmental Information System (ENVIS)
  - ii. Cleanliness Drive
  - iii. Solid Waste Management-Issues and Challenges
  - iv. Coastal Environment Day-25 years of CRZ

OUTREACH AND DATA DISSEMINATION PROGRAMME CONDUCTED

Observed Days of Importance

❑ World Environment Day-2011-2015

❑ International Year for preservation of Ozone Layer- 2011-2015

❑ World Wetland Day- 2011-2015

❑ World Water Day-2011-2015

❑ World Earth Day- 2011-2015

❑ Coastal Environment Day-25 years of CRZ- 2016

- Conducted one day Training Programme on Environmental Information as a part of dissemination of environmental information to the different stakeholders and public.

- In association with KSCSTE released Environmental Programme on Water Quality Monitoring for every year.

- Conducted Cleanliness Drive in connection with Swachh Bharat Mission

- Showcase and exhibit the activities during Science Express Climate Action Special Train

- Initiated a Documentary on Solid Waste Management in Thiruvananthapuram City

IMPORTANT PLAN OF ACTIVITIES 2016-17

- Website Updation will continue during the period 2016-17. More numeric and descriptive data will be added to the website. New databases will incorporate into the website

- ISBEID will update in a timely manner depending upon the data availability

- Initiatives have been taken for Documentary on Solid Waste Management in Trivandrum city

- Planning to study a particular environmental problem in a specified location and suggestions have to be given for solving the problem. Based on the results a paper work has to be done.

- In connection with World Environment Day, along with students of Eco-club cleanliness drives has to be conducted in parks and museum

- Awareness programme for the students and teacher has to be conducted

- Important Days have to be observed in selected schools and their coordination

- Updations has to be done in Bhuvan Portal. Updation of News, Bibliography etc

- Quarterly newsletters has to be published

DEVELOPMENT OF ENVIS VISION DOCUMENT FOR TEN YEARS TILL 2025

• Environmental information system functioning in the KSCSTE for the last 13 years and is the one and only environment information provider through out the state of Kerala

• The focus of ENVIS Centre is to provide environmental information to decision makers, policy planners, scientists and engineers, research workers etc all over the country.

• The ENVIS Centre should be unique through the creation of databases on all sectors of environment and related issues for taking core decision on environment and development of the state.

• ENIS Centre has to assign specific role in system/policy making by identifying the important issues or challenges of each state of which the centre is located.

• . Dissemination of information based on database including ISBEID GIS may be promoted for the stakeholders and the citizens.

• Networking with other ENVIS Centres, international, public and national partners on environment and development with the support of ENVIS network may be promoted.

• ENVIS Centre should act as a training centre for trainings for capacity building, human resource development in the sustainable development sphere.

• The ENVIS data should be provided to the user agencies on payment mode so that the ENVIS centres can be self sustained.

• In order to achieve aforesaid objectives, the ENVIS centre may be gradually be made autonomous institution with centre- state participation.

NEW INITIATIVES WHICH WILL FORM THE MAIN ELEMENTS OF AN ACTION PLAN FOR THE NEXT 10 YEARS

•ENVIS Centres have to act as a single point of repository of primary/secondary data to the Government.

•Periodical publication of State of Environment Report (SoE) in every three years in uniform framework at the central and state level as a mandate of each State Centre.

•The panchayath level database should also be developed in the case of Kerala State.

•ENVIS Centre should be the repository of Traditional Systems of knowledge and innovation

•Daily meteorological data and weather information's may be displayed in the ENVIS centre with due tie up with the IMD.

•Collaborative Projects on Documentation on Water Quality Monitoring Data on River basin scale shall be conducted.

•Research activities on Climate Change may be initiated in ENVIS scheme as a collaborative project.

•Sharing technologies for solid waste management, energy conservation and management, biodiversity register, rainwater harvesting can be taken up as a collaborative project with other ENVIS Centres.

CONSTANTLY IMPROVE/ UPGRADE TECHNOLOGIES AND STRENGTHEN/MODIFY/ THE EXISTING ENVIS SCHEME/ACTIVITIES

❑ ENVIS Website: There should be a provision to facilitate Dynamic Database in the ENVIS Kerala website so as to upload more dynamic databases in the site.

❑ The current restructured ENVIS website has many technical issues like login issues, performance report issues, unchangeable passwords and total visitors font issues may kindly be corrected by the ENVIS Secretariat.

❑ GIS/ Geo Spatial Tool training programme for ENVIS staffs may be provided for improvement of GIS platform under ENVIS Scheme.

PROJECT PROPOSALS ON SIMILAR THEME THEMES AND NETWORKING WITH ENVIS PARTNERS

- ENVIS Centre should stick on their activities like collection, compilation and dissemination of data as a primary mandate.

- Collaborative projects may be initiated in different sectors of environment like solid waste management, energy conservation and management, biodiversity register, rainwater harvesting with the prior approval from the Ministry.

- Networking with international, public and national partners on environment and development with the support of ENVIS network may be promoted. Sharing of technologies may be promoted among the centres.

HR AND ADMINISTRATION

- The ENVIS scheme has been implemented in KSCSTE during 2003 the staffs were designated as Scientist Grade with scale of pay.

SUGGESTIONS FOR CHANGING THE STAFF PATTERN

✓ All the staffs working under the ENVIS scheme may be assigned as Scientist designation at par with CSIR/DST with corresponding pay scale.

✓ Frequent change in the staffs adversely affects the functioning of the ENVIS Centre. So ENVIS Centre should function in a project mode with tenure of the staffs for 5 years. After the satisfactory completion of the project, the assessment of the staffs should be done and the staffs may be converted into a regular mode.

✓ The designation and the qualification of the staffs working under ENVIS scheme should be uniform.

✓ The Data Entry Post under the ENVIs Centre may also be provided.

CAPACITY BUILDING INTERNSHIP/TRAINING PROGRAMMES UNDER ENVIS

▪ENVIS Centre should act as a training centre for trainings for capacity building, human resource development in the sustainable development sphere

▪The ENVIS data should be provided to the user agencies on payment mode so that the ENVIS centres can be self sustained.

EVALUATION/ CONTINUOUS IMPROVEMENTS

1. Independent expert committee/Advisory Committee has to review the ENVIS scheme yearly and the suggestions has to be given for improvement.

2. Advisory committee may be reconstituted for the current financial year

COMMON TITLE AND SUBTITLE FOR ALL ENVIS NEWSLETTERS

1. Each ENVIS Centre is dealing with a particular area of Environment and the mandate of host institution might be different. In order to ensure diversity of ENVIS network, they have to stick on their own title of its publication.

MANDATE OF HOST INSTITUTION AND MANDATE OF ENVIS CENTER

Mandate of the Host Organization

KSCSTE is an autonomous body to encourage and promote Science and Technology related activities in the Kerala State. KSCSTE plan, formulate and implement Science and Technology Promotion and other related research and development programmes. It provides overall guidance to the programmes and the developments of R&D centres of the Council. It draw and disburse the grant-in-aid funds from the Government and sponsoring agencies to R&D Centres and other grant-in-aid institutions.

Mandate of the ENVIS Centre

The focus of ENVIS Centre is to provide environmental information to decision makers, policy planners, scientists and engineers, research workers etc to all over the country. It is very useful to information gathering community to provide information through modern technologies like web site, on-line query answer service etc. The ENVIS Centre Kerala is creating a database on different environment related topics of Kerala by collecting secondary data from Government agencies, R&D Centres, Universities, NGO's and other reliable sources. It adopts modern technologies of information acquisition, processing, storage, retrieval and dissemination by creating an exclusive website with the ultimate objective of documentation and disseminating information speedily to the users. Publish News Bulletin on State of Environment of Kerala. Generate State of Environment (SoE) Report of Kerala on selected topics. Organize awareness programmes for school children and public on State specific issues. Celebrate days of observance to develop a sense of nature conservation and environmental protection.

ENVIS CENTERS AND DECISION SUPPORT SYSTEM/POLICY MAKING OF THE MINISTRY

- A representative from the Zonal ENVIS Centres can be made as a member of the Advisory/Executive Committee of the Ministry.

- Outreach programmes and interaction workshop has to be enhanced among the local communities (fishermen) and identify their problems and forward it to the Ministry for support during policy making process.

ANALYSING THE PROS AND CONS OF BOTH THE SCENARIOS: CURRENT SYSTEM OF FUNDING OR PROJECT BASED FUNDING FOR SUITABLE DECISION MAKING

- The ENVIS centre may be gradually be made autonomous institution with centre-state participation with plan and non plan fund.

- The current system of funding needs enhancement under Travel and Others head.

- The manpower salary should be in pay scale at par with the host institute.

DETAILS OF THE ENVIS KERALA STAFFS

DR KAMALAKSHAN KOKKAL SCIENTIST F AND ENVIS COORDINATOR, ENVIS KERALA		
NO	**NAME**	**DESIGNATION**
1	Dr Sindhu C Unni	Senior Programme Officer, ENVIS Kerala
2	Smt Akhila S	Programme Officer, ENVIS Kerala
3	Smt Fathima Zahra	Programme Assistant, ENVIS Kerala

THANK YOU