

Report

**on the
Second Training Cum Performance Evaluation Workshop**

organized at

Bhubneshwar, Orissa

by

**ENVIS node on Conservation of Ecological Heritage and Sacred Sites in India
The C.P.R. Environmental Education Centre (CPREEC)
1 Eldams Road, Alwarpet
Chennai - 600 018**

from:

6th-8th November, 2003

sponsored by

**ENVIS Secretariat working under EMCBTAP – ENVIS Sub-component of the World
Bank**

**Ministry of Environment and Forests
Government of India
New Delhi**

Preface

The 2nd Training cum performance evaluation workshop for the ENVIS Centres and Nodes was organized at Bhubneshwar, Orissa by ENVIS node on Conservation of Ecological Heritage and Sacred Sites in India, the C.P.R. Environmental Education Centre (CPREEC), Chennai, from 6th - 8th November, 2003. The objectives of the workshop was to review the progress of the activities of the ENVIS Centers and Nodes with a view to guide them in achieving the objectives of the project and to provide training to enhance the technical capacities of the ENVIS Centers and Nodes. During the three-day training cum performance evaluation workshop, there were 2 lectures by the technical expert from NIC, New Delhi and 36 presentations by the ENVIS Centers and Nodes. A summarized report of the training cum performance evaluation workshop is given in the following pages.

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Background:

The second 'Training cum Performance Evaluation Workshop' for ENVIS Centers and Nodes was organized at Bhubaneswar, Orissa from 6th – 8th November, 2003 by the MOEF in collaboration with ENVIS Node on Conservation of Ecological Heritage and Sacred Sites in India, the C.P.R. Environmental Education Centre (CPREEC), Chennai. During three-day training cum performance evaluation workshop, there were 2 lectures by the technical expert from NIC, New Delhi and 36 presentations made by ENVIS Centres and Nodes categorized under 6 subnetwork areas varying from chemicals, wastes and toxicology to flora, fauna & conservation. The schedule for the second "Training Cum Performance Evaluation Workshop" is placed at Annexure II.

Objective of the Workshop:

The objective of the workshop was as below:

- 1) Review the progress of the ENVIS Centers and Nodes with a view to guide them in achieving the objectives of the scheme.
- 2) Provide training to enhance the technical capacities of the ENVIS Centers and Nodes.

Modus operandi adopted for conducting the Workshop:

- 1) Two technical lectures by a technical expert from NIC, New Delhi.
- 2) Thirty Six presentations by the ENVIS Centres and Nodes giving 15 minutes to each of them to present the activities of the ENVIS Centre/Node under the heads viz. Establishment, Functioning, Organizational setup of the Node, Status in the parent organization, Achievements till date, Publications, Website status and management, Suggestions, if any.

Summary of the Workshop proceeding as per the programme schedule:

Day 1: November 6, 2003

1 Registration:

A total of 50 participants from 36 ENVIS Centres and Nodes registered for the training cum performance evaluation workshop. A list of ENVIS Centres and Nodes invited for the Workshop is at Annexure – I.

2 Inaugural Session:

Dr. Indrani Chandrasekaran, Director (Environmental Information Division), Ministry of Environment and Forests (MoEF), New Delhi welcomed the delegates of the training cum performance evaluation workshop. She mentioned that the first performance evaluation workshop was organized in Bangalore and this is the second workshop of such kind where select subject specific ENVIS centers and nodes have been invited. She also remarked that the EMCBTA - ENVIS sub-component of the World Bank project has been extended for another one year till June, 2004 and in order to continue beyond June, 2004, exemplary performance by all the ENVIS centers and nodes is required. All the delegates of the workshop were then requested to introduce themselves to the house.

Shri. Harjit Singh, Senior Advisor, MoEF, New Delhi thanked Dr. Indrani Chandrasekaran for her welcome address. He informed that the ENVIS is the largest environmental information system in the country. One of the objectives now is to prepare the State of Environment Report (SoER) of the country. So far 85 ENVIS nodes have been established and out of which 25 are ENVIS centres. The EMCBTA project has been extended for another one year till June, 2004. He mentioned that as per the Memorandum of Understanding (MoU) signed between Ministry and the ENVIS centers and nodes, all centers and nodes should continue working for next five years even after if EMCB funding by the World Bank cease. He also pointed out that the report of the first performance evaluation workshop has been prepared and analyzed with view to sort out all the problems of ENVIS centers and nodes which is available on Internet. Meanwhile, Dr. Nanditha Krishna, Hon. Director, C.P.R. Environmental Education Centre, Chennai arrived who was welcomed by Shri. Harjit Singh. Shri. Harjit Singh mentioned that by the end of June, 2004, all nodes would be in a position to set-up the websites. He mentioned that the Ministry's budget for ENVIS has been enhanced. He also remarked that Ministry is working out an option for funding the ENVIS programme after June, 2004, but there is no guarantee for the same. Once again, he pointed out that all centers and nodes should continue working for next five years even after funding ceases. Later on, he emphasized the importance of such performance evaluation workshops in monitoring the progress of the ENVIS centers and nodes.

Shri. Harjit Singh, Senior Advisor also highlighted the efforts made in bringing 85 ENVIS centers and nodes together on a single platform in a short span of time. He informed that a proposal for expansion and revision of the ENVIS scheme has been initiated. In the proposal, it is proposed to enhance the GOI's budgetary support for the ENVIS scheme with a view to sustain it on a permanent basis. Also, an alternative bi-lateral information exchange programmes among various countries for generating funds for the ENVIS scheme has been proposed.

Shri. Harjit Singh highlighted the key features of the Ministry's, ENVIS, and SDNP websites. He mentioned that the hits on ENVIS website is more than 1 lakh per month. The Ministry's website has the comprehensive information on Ministry's policies, programmes, organization structure, etc. The ENVIS website has linkages to all its

ENVIS centers and nodes which have cross-linkages to the web-based information resources like Newsletters, Databases, Bibliographies, Reports, Articles, Research Papers, Libraries, etc. Shri. Singh informed that the ENVIS has a target to establish 90 ENVIS centers and nodes. So far, 85 ENVIS centers and nodes have been established. Shri. Singh also pointed out that though there is no provision for further expansion of the existing strength of 25 ENVIS centres as per the Geeta Krishna Report, but if all of the ENVIS centers and nodes perform well and show remarkable progress in achieving the targets then the ENVIS scheme holds an chance to flip the restriction of expansion and revision. This scheme helps all parent organizations of the ENVIS centers and nodes to enhance and build capacities on the subject assigned. Also, it helps parent organizations of the ENVIS centers and nodes in meeting their information needs by developing databases and sharing information resources. ENVIS is a unique network of the country that provides a lot of benefits to the environmental community by networking and sharing the information resources at State, National and International level.

At last, Shri. Harjit Singh, Dr. Indrani Chandrasekaran, Dr. Nandita Krishna, lighted the Kuthuvilakku and inaugurated the workshop.

Presentation on Environmental Information System (ENVIS) by Dr. Indrani Chandrasekharan, Director, Ministry of Environment and Forests, New Delhi

Dr. Indrani Chandrasekharan gave an overview of the ENVIS Scheme of the Ministry and emphasized the importance of the Scheme in the country. She said that it is the largest environment network of the world. She briefly explained the status of the ENVIS centers and nodes in terms of services offered, achievements made so far and future targets planned. She also discussed about the Webstat which is portal to monitor and record the traffic of the websites of the Ministry i.e. <http://envfor.nic.in> and the ENVIS i.e. <http://envis.nic.in>. She mentioned that these two websites are quite popular worldwide as both websites attract a great number of hits which are beyond expectations.

Question answer and interactive session:

Dr. Brahmam, Head, Aromatic & Medicinal Plants Division, RRL, Bhubneshwar asked to explain about International linkages. Shri. Harjit Singh, Senior Advisor replied that the International linkages could be established by providing cross-linkages in the websites of the ENVIS centers and nodes to the International organizations / institutions engaged in the environment sector.

Mr. Shantanu Ganguly, Information Analyst, TERI, New Delhi suggested to include/add a new node on "Corporate Responsibility". Dr. Indrani Chandrasekharan, Director informed that the required proposal may be sent to the Ministry to be placed to the Steering Committee of ENVIS for the decision in this regard. Besides this, two more new ENVIS nodes on "Population" and "Sustainable Development" would be added soon in the ENVIS programme.

Dr. Nandita Krishna, Hon. Director, CPREEC suggested to collect and compile information on the research work done at Indian Universities which may be accessible through websites. Dr. Indrani Chandrasekaran mentioned that a proposal would be made and submitted to the University Grants Commission (UGC) for building a database on the research work done at the Indian Universities.

Shri. Harjit Singh informed that the Association of Indian Universities (AIU) is already collecting, collating and compiling information pertaining to the research work performed at the Indian Universities.

Dr. Annadurai, Officer-in-charge, ENVIS Secretariat, MoEF, New Delhi, gave a brief presentation on the Ministry's website (<http://envfor.nic.in>) and a brief presentation was given by Mr. Vimal Bhist, ENVIS Secretariat, MoEF, New Delhi, on the ENVIS website (<http://envis.nic.in>). They briefly explained the salient features and the information available on the websites.

Session 2 : Presentation by ENVIS Nodes/Centres – Chemicals, Wastes and Toxicology

ENVIS Nodes on Management of Plastic, Polymer Wastes and Biopolymers, Impacts of Plastic on Eco-System, Indian Centre for Plastics in the Environment (ICPE), New Delhi

Presentation made by: Dr. T.K. Bandopadhyay, Technical Manager

ICPE signed the MOU with the Ministry in November, 2002 and launched the website at <http://www.envis-icpe.com>. A brief presentation was made on the salient features of the website. He also highlighted the major activities implemented under waste disposal projects which included establishment of model drywaste management system at selected wards of Mumbai, compactor at Mumbai Central Station, success story of Clean Matheran project and launching of Clean Mahabaleswar project. The planned or proposed activities under waste disposal projects were Unesco Aided Project at Darjeeling, IIT Kharagpur campus and Vadodara Market & Station area.

He also informed about the details of the awareness programmes on waste management which include initiation of All India School Contest on Waste Management, Co-sponsored Waste Management Programme in Schools in Bhandup, Mumbai and programme Conducted at Bombay Scottish School. He showed some of the glimpses of the photographs of the same programmes.

Questions and Comments:

Dr. Indrani Chandrasekaran, Director, Government of India, Ministry of Environment and Forests, New Delhi asked Dr. T.K. Bandopadhyay to focus the presentation on the subject assigned which is "Plastics Role in Environment". She also requested to present the future plans for the period till June, 2004. Later on, she asked Dr. T.K.

Bandopadhyay to call her office in Delhi to fix-up a meeting to sort out the problems of the node.

ENVIS Node on Cleaner Production and Technology, Gujarat Cleaner Production Centre (GCPC), Gandhi Nagar

Presentation made by: Shri. Bharat Kumar Jain, Member Secretary

Shri Jain started his presentation with a brief overview on the industrial scenario of Gujarat and emphasized the new concept of **Cleaner Production** which means pollution prevention or waste minimization with increase in production with minimum waste and emission for more competitive and profitable industry along with environmental protection.

GCPC signed the MOU with the Ministry in January, 2003 and launched the website at <http://www.gcpcgujarat.org>. A brief presentation was made on the salient features of the website. So far published only one ENVIS Newsletter and second is in pipeline. He also explained some of the key on-going activities which included database creation & information collection on CP-CT area, developing linkages at International, National and State level which includes organization like at International Level - United Nations Industrial Development Organization (UNIDO), United Nations Environment Program (UNEP), International Reference Centre(IRC), Switzerland, State Secretariat of Economic Affairs, (SECO), Switzerland, etc., and at National level - Ministry of Environment and Forests, GOI, National Cleaner Production Centre, New Delhi, Indian Institute of Environment Management, Mumbai, National Productivity Council, New Delhi, Karnataka Cleaner Production Centre, Bangalore, Confederation of Indian Industries (CII). The suggestions given by Shri. Jain were as on date Government scheme with financial assistance is available towards EOP (CETP, EDS, SLFS). Similar scheme should also be available for CP-Assessment and CP- Implementation, the certification / appreciation / award by state Govt. and Govt. of India to units where CP-Tools have been implemented, direction to state pollution control board for longer duration consent to the units where in CP-tools have been implemented and develop Data-Bank for national bench marking of major unit operations and unit processes.

Questions and Comments:

Dr. Indrani Chandrasekaran, Director, Government of India, Ministry of Environment and Forests, New Delhi asked Shri Bharat Kumar Jain to dedicate the website of the ENVIS node to the activities of the node and not for the parent organization. She also highlighted to include information on the assigned subject for the entire India and not just for the Gujarat state only.

ENVIS Node on Acid Rain and Atmospheric Pollutant Modeling, Indian Institute of Tropical Meteorology (IITM), Pune

Presentation made by: Dr. Gurfan Beig, Principal Investigator

IITM signed the MOU with the Ministry on February 10, 2003 and launched the website at <http://envis.tropmet.res.in>. Dr. Beig gave a brief presentation on the salient features of the website. So far published only one quarterly ENVIS Newsletter and second is in pipeline. The gave the details of the Newsletters which include ENVIS News Letter Volume 1, Issue 1 published in April-July, 2003 and ENVIS News Letter Volume 1, Issue 2 which will be published in August – November, 2003. He also explained some of the key on-going activities which included database creation on subject namely Acid Rain, Atmospheric Pollutant, and Indian Emissions Inventory and the activities of the Ozone Pollution Laboratory (OPL) which is regularly monitoring (round the clock) the surface concentration of following pollutants using optical Photometric analyzers. Some of the achievements under ENVIS node were developed a informative website (<http://envis.tropmet.res.in>), everyday chemical forecasting of pollutants over India on ACML link –Model simulations, database on species like Ozone, CO, NO_x, Hydrocarbons, Indian emission inventory, online graph plotting / visualization through OPL link, online registration and newsletter publications.

Questions and Comments:

Dr. Indrani Chandrasekaran, Director, Government of India, Ministry of Environment and Forests, New Delhi expressed her gratitude to Dr. Gurfan Beig for giving a focused presentation on the activities of their subject specific ENVIS Node.

ENVIS Centre and Node on Solid Wastes Including Hazardous Waste, National Environmental Engineering Research Institute (NEERI), Nagpur

Presentation made by: Dr. A.M. Khan, Scientist

The ENVIS center was established in 1993 and node was in September, 2002. Subsequently, the ENVIS node launched the website at <http://www.geocities.com/envisneeri/index.html>.

Dr. Khan gave an overview of the activities of the ENVIS centre and node. He informed about the achievements till date under ENVIS programme which included preparation of status report on Hazardous Waste Management in India, collection & compilation of information on the subject assigned for various Asian countries, development of database HAZINFO, development of bibliographic & abstract database on the subject assigned, development of ENVIS-NEERI website at the URL i.e. (<http://www.geocities.com/envisneeri/index.html>), compilation of National and International online databases and other related databases available with Centre like MERCK-Schuchardt CD-ROM, Material Safety Data Sheets (MSDS) for various hazardous chemicals, etc. The suggestion given by Dr. Khan was sanction & release of funds has a considerable time gap which needs to be reduced. NEERI has received the sanction letter almost two months back but yet to receive the cheque. Further the cheque should be mailed to the in-charge scientist and not to the Director of the Institute.

Questions and Comments:

No questions and comments were made after the presentation.

ENVIS Centre and Node on Control of Pollution (Water, Air and Noise), Central Pollution Control Board (CPCB), New Delhi

Presentation made by: Shri Mahendra Pandey, Scientist

Shri. Pandey gave a brief presentation on the achievements made till date under ENVIS programme which included Query Response service, publishing quarterly Parivesh Newsletter. During the year 2002-2003, six issues of Parivesh were published on the themes namely Highlights 2001, Biomonitoring of water quality in Problem Areas Part II, Bio-diesel, Public Interest Litigations, Climate Change Odour Pollution and its Control, creation of newspaper clippings database and publishing every year Annual Report of the CPCB. The future plans presented by Shri. Pandey were to bring out newsletters on various themes related to environmental pollution, to carry out the regular activities, like Query Response Service and news-clippings, to prepare an annual compilation of important news items appeared in newspapers, to prepare a fortnightly compilation of important research papers appeared in research journals and relevant information appeared in newsletters and annual reports of other organizations, to create a separate ENVIS website on INTERNET, and to prepare information booklets for students and general public on various aspects related to pollution.

Questions and Comments:

No questions and comments were made after the presentation.

ENVIS node on Flyash, Central Building Research Institute (CBRI), Roorkee

Presentation made by: Dr. L.P. Singh, Scientist

CBRI signed the MOU with the Ministry in February, 2003. Dr. Singh informed that the structure of the website has already been prepared which will be launched soon. Dr. Singh gave a brief presentation on the progress made till date under ENVIS programme which included collected references of papers presented in seminar/symposia on flyash utilization during the past 15 years, website structured and creation of data bank on the properties of Indian flyash. The future plans presented by Dr. Singh were linkages with information sources in the country and abroad will be explored, data bank on flyash characteristics will be generated, linkages with the existing ENVIS Centres will be explored, efforts will be made to collect report and journals in the subject area of flyash, updating of web, generation of database on flyash utilization in building products, creation of website on flyash, monthly compilation of news items on flyash, database creation on flyash and establish linkage with information users.

Questions and Comments:

Dr. Indrani Chandrasekaran, Director, Government of India, Ministry of Environment and Forests, New Delhi asked Dr. L.P. Singh to launch the website as soon as possible. Dr. Singh, while responding to Dr. Chandrasekaran informed that website will be launched in a month's time.

Dr. A.K. Sahu of National Solid Waste Association of India (NSWAI) asked Dr. L.P. Singh to include a study on flyash with special reference to plastic industry.

Dr. Indrani Chandrasekaran made a general remark for all the ENVIS Centres and Nodes to demarcate the activities of the ENVIS programme and their host organization. This would help in projecting activities which are dedicated to the ENVIS programme as branded - "ENVIS Activities".

Lecture on Web sites using Databases by Shri. Sanjay S. Gahlout, senior Technical Director, National Informatics Centre, (NIC) (email: gahlout@nic.in)

Shri. Gahlout started his presentation by giving introduction to Internet and its history. He explained various concepts of website, URL and differentiation between portals and vortals. Some of the definitions given during the presentation are as follows:

Website: Website is a site (location) on the World Wide Web. Each Web site contains a home page, which is the first document users see when they enter the site. The site might also contain additional documents and files.

URL: Universal Resource Locator: The Website (location) is always referred by its URL.

Portals: Web Portal commonly referred to as simply a portal, a Web site or service that offers a broad array of resources and services, such as e-mail, forums, search engines, and on-line shopping malls. The first Web portals were online services, such as AOL, that provided access to the Web, but by now most of the traditional search engines have transformed themselves into Web portals to attract and keep a larger audience.

Vortals: Web Vortals are the Internet's way of catering to consumers' focused-environment preferences. Vortals typically provide news, research and statistics, discussions, newsletters, on-line tools, and many other services that educate users about a specific industry.

He also discussed various features used in designing and developing websites such as Each page: 1-2 screens, Small Page Size, Less number of images/animations, Small size images/animations, Site search facility, Help/Feedback/Guest book/Site Usage Information, Easy-navigation inside website, Visual appeal: simple, elegant, ethical and pleasant, Text version of home pages, Strong Interactive features.

Shri. Gahlout also talked about the role of Animation and Interactivity in the websites. He said that Animation is a one-way moving presentation and Interactivity lets a website respond to a user's actions and choices. These both elements can be combined together.

Shri Gahlout presented an overview of database driven web technologies and discussed various aspects related to dynamic pages vs. HTML web pages. Dynamic

pages are evaluated by server and results inserted in page by the server only as compared to HTML web pages. Major four database driven web technologies are ASP— Active Server Pages, Java/JSP— Java Server Pages, PHP— Hypertext Pre-Processor, CFM— Cold Fusion.

He gave examples of databases - air pollution, water Pollution, vehicular Pollution, database for project Monitoring - forest conservation, research priorities, environmental research & education, decision support system - siting of industries for environmental planning, management of hazardous industrial pocket by drawing risk Contours, database related to wild life management - Central Zoo Authority (species information system), tiger monitoring and evaluation.

At last, he presented the pedagogy of his lecture under three heads - first, which one does your organization use? is it for internal support? or is it for training purposes? or is it for monitoring? etc., second, what is your server & platform? is it Windows — ASP/JSP/CFM or UNIX — JSP/PHP/CFM or LINUX — PHP/JSP/CFM and last what are money constraints? if no money then go for PHP, because it is available free.

Questions and Comments:

Dr. Gurfan Beig, Principal Investigator, IITM, Pune asked Shri. Gahlout to explain the technology appropriate for graphical contour plotting and simple plotting. Shri Gahlout suggested to use Java scripting for simple plotting and GIS tools for graphical contour plotting.

Mr. Shantanu Ganguly, Information Analyst, TERI, New Delhi asked Shri. Gahlout to suggest back-end technologies required for developing web-based databases. He suggested to use ORACLE or SQL.

Session 3 : Presentation by ENVIS Nodes/Centres – Chemicals, Wastes and Toxicology

ENVIS node on Urban Municipal Solid Waste Management, National Solid Waste Association of India (NSWAI), Mumbai

Presentation made by: Dr. Amiya Kumar Sahu, Vice President

Dr. Sahu gave brief overview of the organization, its objectives, and activities. He informed that NSWAI has already launched ENVIS-NSWAI website at <http://www.nswai.com> and presented the contents of the same. Dr. Sahu also presented achievements till date under ENVIS programme which included organized seminars and workshops, published quarterly NSWAI newsletters, collected urban solid waste data from various cities of the India. It is an on-going activity. NSWAI plans to cover about 300 cities of India with population of 1,00,000 and above and collection of data is through questionnaire, telephones, and personal visits. So far collected from 80 municipal bodies. The suggestions given by Dr. Sahu were data collection on urban solid waste is a difficult task as data is not available, in order to get the data quickly,

readily and in an acceptable format, an easy access to such information in the civic bodies may be worked out with the help of Ministry, MoEF (Ministry of Environment and Forests), may request the civic bodies to part with the data to NSWAI-ENVIS and more important avenues that can give us such data are the SPCBs and the CPCB. NSWAI seeks co-operation from such bodies.

Questions and Comments:

Dr. Indrani Chandrasekaran, Director, Government of India, Ministry of Environment and Forests, New Delhi asked Dr. Sahu to include urban solid waste management technologies in the NSWAI website.

ENVIS node on Hygiene, Sanitation and Environment, Sewage Treatment Systems and Technology, Sulabh International Institute of Health & Hygiene, New Delhi

Presentation made by: Mr. Kumar Rajnish, Web Administrator

The ENVIS node on hygiene, sanitation and environment, sewage treatment systems & technology was established on March 20, 2003 and launched a dedicated website which can be accessed at <http://www.sulabhenvi.org>. Mr. Kumar Rajnish made presentation the objectives of the node, organization set-up, status of the parent organization, activities of the node, achievements till date, main features of the website, future plans and a few suggestions. The achievements of the node till date included launching of the website www.sulabhenvi.org, uploading of technologies in the website, uploading of E-Newsletter database, organizing awareness programmes on safe drinking water, safe hand wash campaign, etc., distribution of posters, pamphlets, manuals on the related topics in urban slums and attended many International / National conferences and seminars. The future plans include development of training write-ups, CDs and publications of important technologies in National & International journals, development of training materials on hygiene, sanitation & environment, sewage treatment systems & technology, developing a educational research programme in shape of documentary film and making manual on “school sanitation” and “hospital waste management”. The suggestion presented by Mr. Rajnish were ENVIS node should develop various documentary films on various topics and available in CDs / Cassettes and made available in different Nodes / Government Departments / NGOs / Institutional Libraries, organizing more National level seminars and conferences, city and state-wise linking with nodes, collection of data in the area of chemical waste & toxicology and inclusion of other Institutions like IIT's, DCE, IIM's as advisory capacity to the node.

Questions and Comments:

Dr. Indrani Chandrasekharan, Director suggested to look for funding option from the Ministry of Environment and Forests for the projects related to making documentary films and TV/Radio programmes.

ENVIS node on Bioinformatics - Vector Control, Indian Institute of Chemical Technology (IICT), Hyderabad

Presentation made by: Dr. U. Surya Narayana Murty, Scientist F

ENVIS-NODE of Bioinformatics-vector control was established at Biology Division in February, 2003 and launched a website at <http://www.envisiict.org>. Dr. U.S.N. Murty gave an overview of the salient features of the website. He discussed the services offered by the node are information dissemination, periodical training programs, and workshops for postgraduates on the environmental management on vectors and vector borne diseases. He also informed that the node has published a Newsletter on “A special issue on the occasion of World Mosquito Day” so far. The website contains information on the database on Filariasis, Mizoram Malaria & Japanese encephalitis, bibliography and details about Filariasis, Malaria & Japanese encephalitis diseases, details on web enabled identification system on Indian Anopheline mosquito species, comprehensive list of the institutes and organizations working on the mosquito borne diseases globally, India-wide control programmes like N.F.C.P & N.M.E.P, global-wide virus related links, which covers the classifications, viral diseases, etc., comprehensive list on the mosquito related links on biology, systematics, institutes, genomics etc.

Questions and Comments:

Dr. Indrani Chandrasekaran, Director said that the IICT is proceeding in the right direction and expressed her satisfaction for the work done by them so far.

ENVIS Node on Biodegradation of wastes and Environmental Impact Assessment, Centre for Environmental Studies (CES), Anna University, Chennai

Presentation made by: Ms. J. Juliet Jesline, IT Assistant

ENVIS node on Biodegradation of wastes and environmental impact assessment was established in Junly, 2002. The website of the node can be accessed at <http://www.annauniv.edu/envis/emcb>. Ms. Juliet gave brief overview of the functioning of the node, organization set-up, status of the parent organization, publication of Newsletters & green news from news clippings and achievements of the node. She also informed about future plans of the node which included creation web enabled data base, purchasing of server, providing computers & CD ROM facility to the ENVIS library and subscribing international journals.

Questions and Comments:

Dr. Indrani Chandrasekaran, Director said that the CES is proceeding in the right direction and expressed her satisfaction for the work done by them so far.

ENVIS Centre and Node on Biogeochemistry, School of Environmental Sciences, Jawaharlal Nehru University (JNU), New Delhi

Presentation made by: Mr. D.K. Chatterjee

JNU established ENVIS Centre in 1994 and ENVIS node in 2001. The website of the center and node can be accessed at <http://envisjnu.net> or <http://envis.jnu.ac.in>. Mr. Chatterjee gave an overview of the activities of the centre, its functioning, publication of quarterly Newsletters, workshops & lectures coordinated, publication of books, new addition in the ENVIS library and journals subscribed. He also discussed the key features of the website. The future plans for the centre and node included develop an online GIS based information system with database, prepare CD-ROM of key issues such as "Biogeochemical Cycle" & "Hydrological Cycle" and compile a nutrients Atlas of India.

Questions and Comments:

Dr. Indrani Chandrasekaran, Director said that the JNU is proceeding in the right direction and expressed her satisfaction for the work done by them so far.

07-10-2003 (Friday)

Session 4 : Presentation by ENVIS Nodes/Centres – Ecology & Ecosystem

ENVIS Node on Coastal Shelter Belts, Regional Research Laboratory (RRL), Bhubaneswar

Presentation made by: Dr. M. Brahman

Dr. Brahman gave a technical presentation on the subject assigned. He informed that the website of the node can be accessed at <http://www.rribhu.res.in/envis>.

Questions and Comments:

Dr. Indrani Chandrasekaran, Director said that the RRL is proceeding in the right direction and expressed her satisfaction for the work done by them so far.

ENVIS Node on Wetland Ecosystem, Salim Ali Centre for Ornithology and Natural History (SACON), Coimbatore

Presentation made by: Shri. S. Narendra Prasad

Shri. Prasad gave an overview on the objectives of the node, organizational set-up and key features of the website. He also informed about the publication of the "Sarovar Saurabh" Newsletter of the node. The achievements of the node till date were procurement of different datasets on Indian wetlands from various sources, wetland maps on 1:250,000 scale from state remote sensing centres and National Remote Sensing Agency (NRSA) Hyderabad, maps were prepared on the basis of visual interpretation of IRS-1B LISS I & II satellite data of 1990s, etc. The future plan of the node included development of a GIS based web server on wetlands

Questions and Comments:

Dr. Nanditha Krishna, Hon. Director asked Dr. Prasad how to procure maps. In response to the query, Dr. Murthy informed that maps of India are available at Survey of India which are priced.

ENVIS Node on Grassland Ecosystems and Agro-forestry, Indian Institute of Forest Management (IIFM), Bhopal

Presentation made by: Dr. Vinay Sinha

Dr. Vinay Sinha gave an overview of the objectives of the node, organization set-up and status of the node in the parent organization. The website has been launched which can be accessed at <http://envis.iifm.ac.in>. He informed that the information in the website is organized in two major heads namely Agroforestry and Grassland. The information under Agroforestry has been organized in categories namely About Agroforestry, Agroforestry Systems, Bibliography and Policies and Law. And the information under Grassland has been organized in categories namely About Grassland, Grassland Types and Bibliography. He discussed the achievements of the node which included creation and launch of website for disseminating information on Grassland Ecosystems and Agroforestry and publication of the ENVIS bulletin on Grassland Ecosystems and Agroforestry. Also, he showed a few snap shots of the website of the node.

Questions and Comments:

Shri. Harjit Singh made a few general comments for all the ENVIS centers and nodes. First, regarding copyright problems pertaining to data/information to be put on the website, Shri. Singh suggested that the proper permission should be obtained from the concerned organization/author. Second, value addition should be done always to the data/information before putting it on the website. Also a proper acknowledgment should be made to the source of the information. Lastly, there is a lot of variance in the style of putting information on the websites by the ENVIS centers and nodes. He felt that all websites of the ENVIS centers and nodes should have a common structure with standard elements. Soon, Dr. Indrani Chandrasekharan would be devising a common structure with standard elements for the same. Meanwhile, all the ENVIS centers and nodes are advised to consult the SDNP website i.e. <http://sdnp.delhi.nic.in> for seeking the right kind of formats for the purpose of presenting the information.

ENVIS Node on Marine Offshore Ecosystems, National Ship Design and Research Centre (NSDRC), Visakhapatnam

Presentation made by: Ms. D. Jyoti

The ENVIS node has been functioning since July 1, 2002 and launched the website which can be accessed at <http://www.marineoffshoreecosystem.org>. Ms. D. Jyoti gave an overview of the parent organization and its activities. she informed that so far two Newsletters have been published. The achievements of the node till date were organized two workshops, prepared & released ATLAS for Bay of Bengal which contains Climatological and Hydrographic settings, collected information on cyclone

track data, time series data in Bay of Bengal, etc. The future plans of the node were to develop databases in the offshore ecosystem.

Questions and Comments:

Shri. Harjit Singh made a general remark meant for all the ENVIS centers and nodes. He said that more emphasis should be given to the collection of secondary data rather spending a lot of time in collecting primary data that is not available easily.

ENVIS Centre and Node on Eastern Ghats, Environmental Protection Training and Research Institute (EPTRI), Hyderabad

Presentation made by: Shri. Bharat Kumar Ravuru

ENVIS center on eastern ghats was set-up in 1994 and node was in February, 2002. A website dedicated to ENVIS has been developed which can be accessed at <http://www.envis-eptri.org>. Shri. Bharat Kumar presented the achievements of the center which included constant updation of the website, created a link to Bibliographic and Experts Database on Eastern Ghats, published monograph with 77 abstracts on papers submitted for National Seminar on Conservation of Eastern Ghats, 1998, proceedings of National Seminar on Conservation of Eastern Ghats, monograph with 127 abstracts on papers submitted for the National Seminar on Conservation of Eastern Ghats, 2002 and prepared proceedings on National Seminar on Conservation of Eastern Ghats (March, 2002) and organized Training Programme for Ministry of Environment and Forests, Government of India on Web-Based Development and Database Management at Hyderabad for participants from over 30 ENVIS Nodes. The achievement under node included publishing of Newsletter in regional language i.e. in Telgu.

Questions and Comments:

Shri. Harjit Singh made a general remark meant for all the ENVIS centers and nodes. He pointed out that regional language interface should be provided in the respective websites of the ENVIS centers and nodes.

ENVIS Centre on Desertification, Central Arid Zone Research Institute (CAZRI), Jodhpur

Presentation made by: Mr. Manish Prajapati

Mr. Manish Prajapati gave an overview of the website developed for ENVIS center on desertification. He discussed the main features of the website which included activities, publications, DEN Newsletter, DEN Abstracts and Statistical Database.

Questions and Comments:

Shri. Harjit Singh, Senior Advisor asked Mr. Prajapati to provide linkages in the website to other Institutions / Organization working on Desertification. Also provide link in the website to your parent Organization. He also gave a general remark for all ENVIS

centers and nodes that if any ENVIS center or node is engaged in abstracting services then a copy of the same should be sent to ENVIS Secretariat addressed to Dr. Indrani Chandrasekharan for strengthening and work of Paryavaran Abstracts.

Dr. Indrani Chandrasekaran, Director asked Mr. Prajapati to include information and data related to conservation of desertification.

Dr. Nanditha Krishna, Hon. Director asked Mr. Prajapati to list other areas of desertification also.

Dr. S. Annadurai, ENVIS Secretariat informed Mr. Prajapati that most of the time the website is not accessible i.e. <http://cazri.raj.nic.in>. Mr. Prajapati said that due to the virus problem, the website was not accessible.

Shri. Gahlout, Senior Technical Director, NIC suggested to use web enabled database for presenting the time series data.

ENVIS Node on Environmental Problems in Tea Gardens, Institute of Advance Study in Science & Technology (IASST), Guwahati

Presentation made by: Dr. Anuj Baruah

The ENVIS node on environmental problems in tea garden was established in April, 2002. A dedicated website has been developed which can be accessed at <http://www.nei-envis.org>. Dr. Baruah gave an overview of the state of the parent organization, organizational set-up of the node, achievements and some of his experiences with tea producers of India. He informed about he achievements which included recognition by tea industry, particularly in NE region, receiving queries from within country as well as from abroad, developing a dedicated website for the node, publishing Newsletters and developing databases related to the subject assigned. Also, he informed about the future plans which included database publication in book form, organization of seminar, data collection from public, more interaction with growers/processors for more authentic data collection and in-depth database generation on other factors of tea environment.

Questions and Comments:

Shri. Harjit Singh asked Dr. Baruah to change the assigned subject to “Environment and Tea Garden” instead of “Problems in Tea Garden”. This has been done to broaden the scope of the work assigned to IASST.

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Dr. M. Brahman, Director suggested to include information on medicinal value of tea.

Prof. Murthy suggested to provide a link in the website on an event related to Tea whose information is available in the website of the Ministry of Information Technology.

Dr. S. Narendra Prasad mentioned to include information in the website on the tea gardens located all over India rather than having information for north-eastern region of India. For example information on Upasi – a tea garden in south India, Nilgiri tea garden, etc.

Shri Harjit Singh mentioned that MoEF, Government of India has launched a special drive to promote north-eastern region of India. A lot of funding is available at the Centre for the North-Eastern region people. Therefore, a pop-up window should be placed in the website displaying for availability of funds for the environmental projects in North-Eastern region of India.

ENVIS Node on Museology with special reference to Natural History, National Museum of Natural History (NMNH), New Delhi

Presentation made by: Dr. S.K. Saraswat, Director

Dr. S.K. Saraswat gave an overview of the objectives of the node and background of the museums on natural history in India and abroad. He informed that presently information on ENVIS node is available in the website of the parent organization i.e. <http://nmnh.nic.in>. Further he informed that soon a separate website will be launched for the node.

Questions and Comments:

Shri. Harjit Singh suggested that as soon as possible NMNH should digitize their collection for inclusion in the website. Later on, work on private collections may be taken up.

ENVIS Node on Conservation of Ecological Heritage and Sacred Sites in India, C.P.R. Environmental Education Centre (CPREEC), Chennai

Presentation made by: Dr. Nandita Krishna, Hon. Director

The ENVIS node was established in April, 2002. A dedicated website has been launched which can be accessed at <http://www.ecoheritage.cpreec.org>. Dr. Krishna gave an overview of the objectives of the nodes, its functioning, subject areas covered, organization of the node, status of the parent organization, achievements till date, publications, main features of the website and suggestions/problems of the node. She informed about the achievements of the node which included collected more than 300 articles, over 300 books and 15 theses, developed a database which contains original researched material, developed a databases on 448 sacred groves, 60 sacred trees, 125 sacred tanks of South India, 35 temple tanks of Chennai & Ecological traditions of Tamil Nadu, organized performance evaluation workshops with MoEF and published books on Sacred Tanks of South India, Sacred trees of Tamilnadu, Sacred Groves of Tamilnadu & Ecological Traditions of Tamilnadu. She gave a few suggestions that included developing common key words for all ENVIS Centres and Nodes, metatagging of Indian websites and existing hardware and software may be upgraded regularly. Also,

she informed about the problems which included very little information available on eco heritage sites, more research needed and no information on research done in Indian universities and colleges.

Questions and Comments:

Shri. Harjit Singh, Senior Advisor expressed her gratitude to Dr. Nandita Krishna for giving a focused presentation on the features of the website dedicated to the ENVIS Node. He said that it is a wonderful website having a lot of information.

Dr. Indrani Chandrasekharan, Director informed that the information on Varanasi city may also be included in the website as it has been declared as World Heritage City.

Dr. S. Narendra Prasad, SACON, Coimbatore suggested Dr. Nandita Krishna to include information in the website on all temples of India also. She replied that it is not possible to include such information under the ENVIS project as it does not come under the purview of subject assigned.

Dr. S. Narendra Prasad, SACON, Coimbatore suggested Dr. Nandita Krishna to include educational material which can be downloaded from the website easily for the sacred sites in India. She agreed to include such information material in the website.

DR. S.K. Saraswat, Director, NMNH mentioned that there should be some mechanism to search the information required from the Internet accurately and particularly from the websites of the 85 ENVIS centers and nodes. He mentioned that last week NMNH tried to cull information on sacred sites of the India but could not succeed in locating the same. Replying to the query, Shri Harjit Singh, Senuior Advisor suggested to develop a search engine for ENVIS centers and nodes. Later on Shri. Sanjay S. Gahlout, Senior Technical Director, NIC proposed to create a centralized meta database to overcome the problems of information searching within the ENVIS network. Also, information search problems occur due to meta-tagging. All ENVIS centers and nodes should not neglect meta-tagging issues while developing the websites.

Session 5 : Presentation by ENVIS Nodes/Centres – Media, Environment Education and Sustainable Development & Trade and Law

ENVIS Node on Biomedical Waste Management, Environmental Education, Centre for Environmental Education (CEE), Ahmedabad

Presentation made by: Ms. Shyamala Mani, National coordinator

She gave an overview of the activities of the node which include publication of newsletters, maintaining a dedicated website for the node, handling queries, data collection & BMWM studies, conducting trainings and organizing seminars, workshops and conferences.

Questions and Comments:

Shri. Harjit Singh, Senior Advisor expressed his dis-satisfaction for the work done by the CEE so far. He commented that the website made by the CEE is not at all a technical website. There is no mention of the literature available for reference in the website. Also, the website lacks information on relevant technologies and legislations. He asked Ms. Shyamala Mani to get in touch with Dr. Indrani Chandrasekharan, Director in her Delhi office for further directions on the contents of the website.

ENVIS Centre and Node on Non Government Organisations (NGOs), Media and Parliament Matters related to Environment, World Wide Fund for Nature-India (WWF), New Delhi

Presentation made by: Mr. G. Areendran

The ENVIS center on NGO, Media and Parliament matters related to Environment was established on October 27, 1984 and node was in February, 2002. A dedicated website has been developed which can be accessed at <http://www.wwfenvis.org>. He informed about the achievements of the center and node which included publishing the Directory of Environmental NGO's in India which is also available as a computerized database, developed CD ROMS of the database for interested users and target groups, providing access of the database of NGOs on the website of the node, publishing quarterly newsletters, developed database on Environmental NGOs, providing information support to NGOs on matters of Sustainable Development and collection and classification of news/features items on environment. He discussed future plans of the center and node which included acting as a nodal agency for Government Departments, Planning Commission, NGOs and other user groups for compiling and disseminating environment related information using databases and relevant software, establishing a web based information database on issues related to sustainable development with a specific focus on NGOs, parliament and the media and establishing networking capabilities with other institutions, NGOs for further enhancement of ENVIS activities. He, also, gave a few suggestions which included there should be an electronic discussion group amongst all ENVIS Centres/Nodes, ENVIS Centres and Nodes should exchange views and ideas through regular meetings, each node should be provided constant training to update their skills and provide additional funds for upgrading IT infrastructure.

Questions and Comments:

Shri. Harjit Singh, Senior Advisor expressed his displeasure about the performance of the ENVIS center and node. He mentioned that the WWF did not make any efforts to update the NGO Directory. Last updated was in 1999 and since then there is no effort in updating the same. Also, informed that the Planning Commission has already up-to-date information of 800 NGOs related to environment sector.

Besides this, the Directory of Experts has also been stopped by WWF as mentioned by Shri. Harjit Singh. He said that the directory was very useful for him in allocating research projects.

Shri. Harjit Singh mentioned that WWF is doing duplicating the work related to the Parliament matter related to environment. All questions and answers are already available on-line on the Internet. He suggested that WWF should call on Dr. Indrani Chandrasekharan to discuss and sort out such issues.

Later on, Shri. Harjit Singh mentioned that he would be recommending the Governing Council of ENVIS to drop the name of WWF from the ENVIS list.

Field Visit to ENVIS Nodes

1. Regional Research Laboratory (RRL), Bhubaneswar

All participants of the performance evaluation workshop visited ENVIS Node on Coastal Shelterbelt, RRL, Bhubaneswar and Shri. Harjit Singh, Senior Advisor gave away RRL memento to the participants of the workshop.

2. Centre for Environmental Studies (CES), Bhubaneswar

All participants of the performance evaluation workshop visited ENVIS Node on State of Environment Report and Related Issues, CES, Bhubaneswar and also visited the Cactus Botanical Garden which is the largest in Asia.

Session 6 : Presentation by ENVIS Nodes/Centres – Environment and Energy Management

ENVIS Centre and Node on Renewable Energy and Environment, Tata Energy Research Institute (TERI), New Delhi

Presentation made by: Mr. Shantanu Ganguly

The ENVIS center on Renewable Energy and Environment was established in 1984 and node was in 2001. A dedicated website has been developed which can be accessed at <http://www.teriin.org>. Mr. Ganguly gave an overview of the objective of the centre and node, its activities, publication of newsletters, TIDEE &TIMES, main features of the website and future plans. He discussed future plans of the center and node which included merging of EMCBTAP and ENVIS websites, preparation of environmental glossary of terms, preparation of directory of energy and environmental experts, provide links to different web pages so as to provide overview of renewable energy sources in India, publish e-newsletters on basic information on renewable energy and environment sectors for school and college children.

Questions and Comments:

Shri Harjit Singh suggested to change the name of the Distribution Information Centre (DIC) to ENVIS centre.

Shri. Harjit Singh asked Mr. Ganguly not to re-invent the wheel as there already exists a UNEP's glossary on environment. He mentioned that TERI should acknowledge ENVIS and carry the name of ENVIS, if possible in the publications published by TERI under ENVIS programme. Also, he said that TERI should bridge the gap between ENVIS Secretariat and ENVIS center and node at TERI.

ENVIS Node on Environmental Management in Management Schools, Indian Institute of Management (IIM), Bangalore

Presentation made by: Prof. P.D. Jose, Professor

Prof. P.D. Jose gave an overview of the objective of the node and some screenshots of the website which is under construction. He informed that the website will be launched by next month. He also discussed the main features of the website.

Questions and Comments:

Shri. Harjit Singh, Senior Advisor asked Prof. Jose to launch the website as soon as possible. He expressed his satisfaction for the work done by them so far.

ENVIS Node on Capacity Building in Environment Management, Environmental Management and Policy Research Institute (EMPRI), Bangalore

Presentation made by: Mr. Sudindra H.S., IT Assistant

Mr. Sudindra gave an overview of the objectives of the node, organization set-up, achievements till date, publications and main features of the website. The website can be accessed at <http://envisempri.kar.nic.in>. He discussed about the achievements which included website launched, developed database on training modules and training evaluation, assessment of training needs for the state of Karnataka, and publication of Newsletter.

Questions and Comments:

Shri Harjit Singh, Senior Advisor asked Mr. Sudindra to re-draft the objectives of the ENVIS node and send them to Dr. Indrani for approval, because the objectives mentioned in the presentation are all wrong.

Shri. Harjit Singh suggested to include more parameters in the website related to training for trainers, ISO 14001 standards, etc.

ENVIS Centre and Node on Environmentally Sound Appropriate Technologies and Sustainable Livelihoods, Development Alternatives (DA), New Delhi

Presentation made by: Ms. Ambika Sharma

The ENVIS centre on Environmentally Sound Appropriate Technologies and Sustainable Livelihoods was established in 1984 and node was in 2002. A dedicated website for the ENVIS centre and node has been developed which can be accessed at <http://www.daenvis.org>. She gave an overview of the objectives of the centre and node, main features of the website, achievements till date and future plans. She discussed achievements which included designed a New Website for DAINET-ENVIS Centre, published E-newsletters, automated Library at DA headquarters, operationalized the Online Public Access Catalogue (OPAC) and developed online compendium on ESAT (20 technologies). Also, She presented the future plans which include language versioning (in Hindi) of the ENVIS website (www.daenvis.org), increase the frequency of the Hindi Newsletter from quarterly to bi-monthly, bibliographic Database to be online by December '03 end and developing a Demonstration Centre for ESAT & SL (for the masses in Central India)

Questions and Comments:

Shri. Harjit Singh, Senior Advisor expressed his dis-satisfaction for the work done by the DA so far. He said that DA is one of the oldest ENVIS centers and nodes but sorry to mention that the website of DA has nothing to show on their contributions in ENVIS for about last 20 years or so. He said the activities under the DIANET are not related to ENVIS programme.

Shri. Harjit Singh made a general remark for all the ENVIS centers and nodes that the funds disbursed under ENVIS should be utilized only for ENVIS activities and accordingly appropriate projections may be made through websites. He urged to all to treat ENVIS as separate entity from the parent organization in this regard.

Shri. Harjit Singh announced that hence forth onwards ENVIS Newsletters could be published only in electronic form which would be distributed through emails. However, if any user requires hard copy as a many of the user do not have access to Internet, then the concerned ENVIS center or nodes should print the same and send it by post.

Session 7 : Presentation by ENVIS Nodes/Centres – Trade and Law

ENVIS Node on Environmental Audit and Accounting, Waterfalls Institute of Technology Transfer (WITT), New Delhi

Presentation made by: Mr. Suresh Kumar, Joint Director

A dedicated website of the node has been launched which can be accessed at <http://www.wittenvis.org> as informed by Mr. Suresh Kumar. During his presentation, he touched upon various issues namely organizational set-up, functioning, activities, achievements, publication of R& D reports and training & development. The main publications of the node are monthly news items on environmental audit & accounting and several other reports on environment audit. These reports are published under two heads namely "Guides on Environment Audit" and "Experience in environment Audit".

Also, the ENVIS node is engaged in conducting workshops to enhance public awareness on various subjects.

Questions and Comments:

Shri. Harjit Singh, Senior Advisor expressed his satisfaction of the work done by WITT so far. However, he mentioned that better comments would be given after looking at the website of the WITT at a later date.

ENVIS Node on Industry - Government Environmental Interface, Confederation of Indian Industries (CII), New Delhi

Presentation made by: Absent

ENVIS Node on International Trade and Environment, Indian Institute of Foreign Trade (IIFT), New Delhi

Presentation made by: Mr. O.P. Wali

A dedicated website of the node has been launched which can be accessed at <http://envis.iift.ac.in> as informed by Mr. O.P. Wali. During his presentation, he touched upon various issues namely rationale on trade & environment, organizational set-up, objectives, status of the node, work in progress, and future plans. The future plans of the node were continuous benchmarking, multi channel reach & collaboration and knowledge management to knowledge marketing.

Questions and Comments:

Dr. Indrani Chandrasekaran, Director said that information covered in the website is not appropriate and adequate. There are several other important environment related issues in international trade instead of just providing information on constraints.

Shri. Harjit Singh suggested to call on Dr. Indrani Chandrasekharan, Director in Delhi for a meeting to discuss and sort out such problems. Also, representatives of the Ministry of Commerce may be called for the meeting.

Shri Harjit Singh said that information on “Cacoon Conference” should be included in the website. He mentioned to provide links to the publications, articles, books, referral materials, news clippings, conventions, treaties, etc. related to international trade in the website.

ENVIS Node on Eco-Labeling and Promotion of Eco-Friendly Products, Consumer Education and Research Centre (CERC), Ahmedabad

Presentation made by: Mr. Bhadresh N. Bhatt, MIS Supervisor

The ENVIS node was established in March, 2002 and launched a dedicated website which can be accessed at <http://www.cerindia.org/envis.htm>. Mr. B.N. Bhatt gave an

overview of the objectives, organization-set-up, status of the parent organization, activities of the node, achievements and future plans. The future plans of the node were developing facilities to test eco-friendly parameters of the different product categories, developing test facilities for other categories of consumer products covered by eco-mark scheme of Government of India and planning to strengthen its infrastructure on environment friendly product testing under Indo-German Bilateral Agreement.

Questions and Comments:

Shri. Harjit Singh asked Mr. Bhadrash Bhatt to include information in the website on how to protect consumer right, what are consumer rights and how & where to address any complaints related to consumer rights.

Dr. Nandita Krishna, Hon. Director suggested to include information in the website on what is difference between guarantee and warranty products sold in the market. She also pointed out to cover information on several consumer action groups operating in every state. List the addresses in the website of such action groups.

Mr. T.K. Bandopadhyay, ICPE suggested to include information in the website on statutory bodies of every state of India where complaints related to consumer rights are addressed.

Lecture on Web Casting of Audio / Video by Shri. Sanjay S. Gahlout, senior Technical Director, National Informatics Centre, (NIC) (email: gahlout@nic.in)

Shri. Gahlout started his lecture by giving introduction to the subject. He explained various concepts related to what is a web? what is a web server? what are popular audio/video server? what are various types of media files and what is web cast?

He explained that the web is that part of the Internet that offers text, sound, images, and video together in a presentation type layout. It can be viewed using web browser like Netscape, Internet Explorer, Opera and NeoPlanet.

He discussed about web server which can be defined as a computer with special software to host web pages and web applications. It also serves the component of the web site requested by the web browser. Major web servers are Internet Information Server (IIS), Netscape Enterprise Server and Apache.

Shri. Gahlout briefly explained two types of media files (also called as Audio-Video files). First type is downloadable media files that are to be downloaded first and then can be played. They take time to run and the second type is stream media files that are in the form of bit stream and are to be served by the media server. These files are not required to be downloaded for execution.

He mentioned that the webcasting is also known as Internet broadcasting, is the transmission of live or prerecorded audio/video to client computers that are connected

to the Internet. It is similar to television or radio, webcasting provides "one to many" communications.

While giving his presentation he also touch upon two popular Audio/Video technologies & servers namely real player which is developed by Real Network and it serves the Real Media Streams and Microsoft Windows media player which is developed by Microsoft Incorporation and it serves the Windows media streams.

He also discussed about what is required for a webcast which includes a camera to video tape the event, you need one or two video cameras, a mixing board, and a crew to operate them. Alternately, one can also capture the audio/video from TV using Video card on your computer, encoders for encoding softwares / encoders to capture the audio/video from the live devices like TV, Camera, VCR etc., the Network for the media server which must be connected on the Internet using ISDN, Leased Line or with some other high speed connectivity and the media server to broadcast the Live or recorded events in Audio/Video form.

In the last he gave a few examples of the websites which uses Web Casting like <http://allindiaradio.com>, <http://ddindia.com>, <http://teenstation.com>, <http://bbc.com>.

He mentioned that NIC has got all this technology and ENVIS centers and nodes could approach NIC for the help, if required, on the web casting. The NIC has used the same technology last year in an International event - COP 8 organized by the Ministry of Environment and Forests, New Delhi.

ENVIS Node on Environmental Law, National Law School of India University, Bangalore

Presentation made by: Ms. B.R. Pushpa Kadam

The ENVIS node on environmental law was established on March 14, 2002 and launched a dedicated website which can be accessed at <http://www.nlsenlaw.org>. She gave an overview of the organization set-up, status of the parent node, main features of the website, achievements, publications and future plans. The achievements of the node were launched a dedicated website, developed environmental law database, collection of information and data on case laws, articles, policies, draft Bills, notifications, rules relating to environment (both National and International), providing online information of environmental law and publishing ENVIS Newsletters. She informed that ENVIS node has published books on major Environmental Laws of India and International law, Hand book on Environmental Law for Law Practitioners, Case Law summaries on Coastal Zone Management and Indian Journal of Environmental Law. The future plans include publishing the case studies on the website and publish new component called as green scan in the Newsletter.

Questions and Comments:

Shri. Harjit Singh, Senior Advisor expressed his satisfaction for the work done by NLS so far. However, he suggested to include information in the website on environmental legislations for Asian countries and a few prominent International also. He mentioned to provide linkages to the important cases related to environment in India. Also, the website should have information on the latest issues related to environment in the country like status on Biodiversity Act, etc.

He asked Ms. Kadam if somebody cuts a tree then what to do and where to look for help in the country. The website should have such information for the general public also.

Dr. Indrani Chandrasekaran, Director suggested to include more information in the website on environmental laws instead of just covering laws related to forestry and wildlife.

ENVIS Node on Environmental Economics, Madras School of Economics (MSE), Chennai

Presentation made by: Ms. Leena Pramodhini

The ENVIS node on environmental economics was established in June, 2002 and launched a dedicated website for the node which can be accessed at <http://www.mse.ac.in/envis>. She gave an overview of the organizational set-up, objectives of the node, status of the parent organization, achievements till date and main features of the website. The achievements of the node are launch of the website, bringing out Tamil version of the website for larger audience in Tamil Nadu and publishing the newsletters – ENVISAGE – from December, 2002.

Questions and Comments:

Shri. Harji Singh, Senior Advisor said that the MSE is proceeding in the right direction and expressed his satisfaction for the work done by them so far. However, he suggested to provide linkages to the workshops, conferences, other events, etc. on the subject assigned in the websites and in the Newsletters.

Dr. Indrani Chandrasekaran, Director said that the home page should have the write up related on the subject assigned rather than write-up on the ENVIS programme.

08-10-2003 (Saturday)

Session 8 : Presentation by ENVIS Nodes/Centres – Flora, Founa and Conservation

ENVIS Node on Micro-organisms and environmental management, Department of Zoology, University of Madras, Chennai

Presentation made by: Dr. N. Gaodhantaraman, Programme Officer

The ENVIS node on micro-organisms and environmental management was established on March 18, 2002 and launched a dedicated website for the node which can be accessed at <http://www.unom.ac.in/envis/index.html>. Dr. N. Gaodhantaraman gave an overview of the organization set-up, objectives, status of the parent organization, achievements till date, publications, main features of the website and suggestions. He informed about the achievements of the node are circulated a brochure on the node, collected about 8000 abstracts on the subject assigned and related areas, launched a dedicated website for the node and answered more than 1300 queries. He gave a few suggestions which included required a separate server to host our website, required a LCD Projector for presentations so as to enable to make environmental awareness to local people, school children, visitors etc., needs electronic database subscription for example ASFA, Current contents, IndOcean – A Database of abstracts and online database like J-gate e-Journals etc. and required xerox facility, Color Printer and ISDN facility for Internet Connectivity.

Questions and Comments:

Dr. U. Suryanarayana Murty, IICT, Hyderabad said that the website should include information on bio-insecticides also.

Shri. Harjit Singh expressed his satisfaction for the work done by them so far.

ENVIS Node on Conservation of Medicinal Plants, Foundation for Revitalization of Local Health Traditions (FRLHT), Bangalore

Presentation made by: Mr. Ajith Kumar

The ENVIS node on Conservation of Medicinal Plants was established in April, 2002 and launched a dedicated website for the node which can be accessed at <http://envis.frlht.org.in/>.

Mr. Kumar gave an overview of the organizational set-up, objectives, status of the parent organization, main features of the website, achievements and future plans. The achievements till date were launch of the website, answering on an average 30-50 queries a month and updated 800 entries in the database on medicinal plants. Mr. Ajith Kumar informed the future plans of the node which included provide source tag to each species, prepare a small note on the broad uses will be included for each plant, all plants that have already been assessed will have Taxon sheets attached to it, put up digitised herbarium sheets for some of the highly threatened species, procurement of GIS maps, library catalogue will also be available online and links will be established with other Indian institutions engaged in medicinal plants conservation.

Questions and Comments:

Dr. U. Suryanarayana Murty, IICT, Hyderabad said that the website should include information on medicinal plants specified recently by the task force constituted in the Planning Commission, New Delhi.

Shri. Harjit Singh expressed his satisfaction for the work done by them so far.

ENVIS Node on Indicators of Plant Pollution, National Botanical Research Institute (NBRI), Lucknow

Presentation made by: Ms. Nandita Singh, Scientist C

The ENVIS node on Indicators of Plant Pollution was established on December 27, 2002. Ms. Singh informed that a dedicated website on the node will soon be launched. She gave a brief presentation covering issues related to organization set-up of the node, status of the parent organization, objectives of the node, achievements, publications and future plans of the node. She also informed that bibliographies has been prepared on biomonitoring of Air, Water & Soil Quality and Noise & Odour pollution. she also informed that the node is also engaged in building database, collection and compilation activities and query answering services.

Questions and Comments:

Dr. Indrani Chandrasekaran, Director said that the content of the website should be carefully planned. It would be better to constitute an Advisory Committee by the concerned ENVIS node to review the content of the website on regular basis.

Shri. Harjit Singh, Senior Advisor asked Ms. Singh to review the contents of the website again and report the progress in this regard to the ENVIS Secretariat latest by next month.

Concluding Session:

Shri Harjit Singh discussed about the feedback received from the participants and presented a report on the performance evaluation Workshop. He also presented the concluding remarks for this solemn occasion. As Dr. Nandita Krishna, Hon. Director, CPREEC, had to leave early for an urgent work at her Chennai office, the session concluded with a vote of thanks from Shri Harjit Singh, Senior Advisor, Ministry of Environment and Forests, Government of India, New Delhi.

Some of the major concluding remarks given by Shri. Harjit Singh during question answer and interactive session are as follows:

Mr. T.K. Bandopadhyay, ICPE, New Delhi suggested to hold one to one discussion or discussion in small group for monitoring the progress of the ENVIS centers and nodes apart from discussing these issues in such workshops. Shri. Harjit Singh, Senior Advisor, MoEF, New Delhi supported the idea of discussion in a small groups and informed that ENVIS secretariat has already taken steps in this direction and constituted seven expert committees that would be visiting each center and node soon.

Ms. Shyamala Mani, CEE, New Delhi wanted to know the mechanism for establishing connectivity with other centers and nodes. Shri. Harjit Singh, Senior Advisor, MoEF,

New Delhi suggested to provide cross-linkages in the websites of the ENVIS centers and nodes which are working on similar subjects. The information resources can be shared and communication linkages through emails, listservs, discussion forums, etc may be set-up among them. Besides this, each ENVIS center and nodes should try establishing linkages with the institutions and organizations located in near to their area. Shri. Harjit Singh also informed that the DELNET is a powerful network of libraries which has more than 650 member libraries whose resources are available on-line. All the ENVIS centers and nodes should try exploring the possibility of connecting with them.

Mr. Manish Prajapati, CAZRI, Jodhpur suggested that the home page of the ENVIS centers and nodes should contain the updation date. Shri. Harjit Singh, Senior Advisor, MoEF, New Delhi supported and agreed to the suggestion.

Dr. N. Godhantaraman, University of Madras, Chennai suggested that since subscription of E-Journal is quite expensive, MoEF should help ENVIS centers and nodes in obtaining subscription of these E-Journals free of cost for at least three months. Otherwise, usually these E-Journals are available for subscription for only one month free of cost. Shri. Harjit Singh, Senior Advisor, MoEF, New Delhi said that Ministry would not be the party to the above said matter because this involves copyright problems.

Dr. Amiya Kumar Sahu, NSWAI, Mumbai wanted to know how to deal with a situation where there is not enough data available or concerned authorities are not cooperative in collection and compilation of data particular with reference to urban solid waste management data. Shri. Harjit Singh, Senior Advisor, MoEF, New Delhi suggested that collection of primary data is not required for the ENVIS project. He said that more stress should be given on collecting or compiling secondary data / information. An effort should be made to provide directions to the location where information may be available for the ENVIS users rather than making efforts to collect primary data.

Dr. N. Godhantaraman, University of Madras, Chennai asked whether to provide full abstract of the article or to provide a few lines or just the title of the article. Shri. Harjit Singh, Senior Advisor, MoEF, New Delhi suggested that there is not hard and fast rule for the same. It depends on the availability of the time. The minimal requirement of the abstracting services is in the form of bibliographies.

Mr. Shantanu Ganguly, TERI, New Delhi suggested to include more state-of-art lectures in the workshop on the technologies used in designing, developing and management of websites. Shri. Harjit Singh, Senior Advisor, MoEF, New Delhi informed that last time suggestions were made to include such lectures and this time there 2 state-of-art lectures. So ENVIS secretariat is already taken steps in this direction.

Dr. M.V. M. Desai, NSWAI, Mumbai suggested to include information on environmental music. Shri. Harjit Singh, Senior Advisor, MoEF, New Delhi informed that the ENVIS center and nodes on media, CMS, New Delhi would be working on the same.

Ms. Shyamala Mani, CEE, New Delhi suggested to adopt a standard format of website for all ENVIS centers and nodes. Shri. Harjit Singh, Senior Advisor, MoEF, New Delhi informed that ENVIS secretariat is already working on the issue. Soon it would be communicated to all ENVIS centers and nodes.

Analysis of the Feedback received from the participants of the training course:

A total of 50 participants took part in the three day Training Course. Out of 50, 23 participants filled the Feedback Form for the Second Training cum Performance Evaluation Workshop. The basic objective of the Feedback Form was to record the participants' view-point which comprised 1 - Whether the method of performance appraisal evaluation was appropriate; 2 - What should be the guidelines for presentation by each ENVIS centers/nodes and 3 - How to improve the next workshop. A copy of the feedback form is placed at Annexure – III. All the 23 participants have supported the performance evaluation method. A list of 23 participants who have filled-in feedback forms is placed at Annexure IV. A copy of the all the filled-in feedback forms are placed at Annexure –V. However, the suggestions/comments received from them are categorized subject-wise and placed below.

Suggestions/Comments for the next training cum performance evaluation workshop:

1 Performance Evaluation Method:

- a) All agreed and supported the existing method of performance evaluation.
- b) Performance evaluation parameters may be developed to conduct such workshops.
- c) ENVIS Secretariat may organize workshops to help the ENVIS centers and nodes in identifying of the knowledge gaps.
- d) The workshop evaluators may provide critical and constructive suggestions at the time of presentation and should review the website live.

2 Guidelines to Presentation:

- a) Speakers may focus on more on activities related to ENVIS instead of giving details of the parent organization.
- b) Time given for presentation was very insignificant. It may be increased to 20 to 25 minutes duration at least.
- c) More time may be given in the presentation to elaborate aspects related to content updation and management of website.
- d) Internet facility may be provided during the presentation so that experts' views can be obtained on the websites with a view to improve the same.
- e) Presentation may be made in pre-designed structure and may be on one to one basis.
- f) Presentation may be short, crisp, to the point and should not have much content in each page.

- g) Presentation may be limited to collection, collation, organization, and presentation of information by ENVIS centers and nodes.
- h) Presentation guidelines may be spelled very clearly in one line based on the objective of the ENVIS programme.

ENVIS Programme:

- a) ENVIS logo may be evolved which may be used in the websites, letter-heads, etc. of the ENVIS centers and nodes.

State-of-art Lectures:

- a) Invited lectures on technical subjects may be included and continued in future workshops also.
- b) Invited lectures on technical subjects may be more exhaustive and oriented to cater the needs of the ENVIS programme.

Organization and Management of the Workshop:

- a) Such Workshop may be organized more frequently to keep the ENVIS programme accountable and on track.
- b) More interaction between ENVIS and its centres and nodes is required.
- c) IT Professionals may also be invited to attend technical lectures during such workshops.
- d) All participants may be allowed to travel by air to attend the workshop. Otherwise a lot of time goes in traveling only (say 30 to 40 hour on an average per person).
- e) Intimation for organizing such workshop to all ENVIS centres and nodes may be given a little earlier.
- f) Workshops may be organized as per the category-wise also.
- g) Before the workshop, ENVIS Secretariat may review and send in the comments on the websites to the ENVIS centres and nodes so that during the workshop performance may be evaluated in a right manner.

Data Collection:

- a) ENVIS Secretariat may suggest sources or help ENVIS centres and nodes in collection of data / information where there is no primary or secondary data is available.
- b) ENVIS Secretariat may allow ENVIS centres and nodes to spend some time on analysis, if necessary, after collection of data.
- c) ENVIS Secretariat may support ENVIS centres and nodes to carry out some primary research on the subject assigned.

Website and Software related:

- a) Assistance is required in creating a common search mechanism within ENVIS network of 85 centres and nodes to locate the required information quickly.
- b) ENVIS Secretariat may provide software tools that may be used in developing the websites of all 85 centres and nodes.
- c) ENVIS secretariat may provide software package for regional language interface like Hindi, Telgu, Tamil, etc. to be included in the websites of the ENVIS centers and nodes.
- d) A uniform designing pattern may be followed for all the websites of the ENVIS centers and nodes.
- e) ENVIS Secretariat may make arrangements for launching mirrors websites of all the ENVIS centers / nodes.
- f) ENVIS Secretariat may procure costly softwares like ORACLE, GIS package for distribution among ENVIS centers and nodes.
- g) Common elements for the website of the ENVIS centers / Nodes may be identified and implemented.

Publications:

- a) Publication of the Newsletter for ENVIS may be made bi-monthly instead of monthly with a view to disseminate more information.
- b) As most of the users of the ENVIS belongs to the common man category who does not have access to Internet, therefore the dissemination of information may be continued in hard copies also.

Boarding and Lounging:

- a) There should be more coordination between Hotel management and organizers to have hassle free stay arrangements.

Financial:

- a) The second installment which is due may be disbursed quickly to ENVIS centers and nodes.
- b) Both TA and DA may be provided to all the participants of the workshop.
- c) ENVIS Secretariat may provide financial support in procuring costly softwares like ORACLE, GIS package, etc.
- d) Delays in transmission of funds may from the Ministry to ENVIS centers and nodes may be reduced.

Annexure - I

List of Participants along with their Organization details and Subject assigned

Sr. No.	Name of the Participant & Designation	Organization and other details	Subject Assigned
1	Mr. Manish Prajapati, Senior Research Fellow	Central Arid Zone Research Institute (CAZRI) Dr. Raheja Library Jodhpur – 342 003. (Rajasthan). Website: http://cazri.raj.nic.in/envis.htm Email: dcojha@cazri.raj.nic.in	Desertification
2	Dr. L.P. Singh, Scientist	Central Building Research Institute (CBRI) Roorkee – 247 667. (Uttaranchal).	Fly Ash
3	Mr. Mahendra Pandey, Scientist	Central Pollution control Board (CPCB) Parivesh Bhawan CBD-cum-Office Complex East Arjun Nagar Delhi – 110 032.	Control of Pollution (Water, Air and Noise)
4	Ms. Shyamala Mani	Centre for Environment Education (CEE) Central Regional Cell Flat No. 10, Garden Estate, 167/1 & 168/1, New D.P. Road Opposite City International School, Aundh Pune – 411 007. (Maharashtra).	Environmental Education
5	Ms. Juliet Jesline	Centre for Environmental Studies (CES) College of Engineering Anna University Guindy Campus Chennai – 600 025. (Tamil Nadu).	Biodegradation of wastes and Environmental Impact Assessment
6	Shri. K. Jude Sekar	Centre for Environmental Studies (CES) N2/150, Nayapali Bhubaneshwar – 751 015. (Orissa).	State of Environment Report and Related Issues

Sr. No.	Name of the Participant @ Designation	Organization and other details	Subject Assigned
7	Mr. Bhadresh N. Bhatt, MIS Supervisor	Consumer Education and Research Centre (CERC) Suraksha Sankool Thaltej, Gandhinagar Highway Ahmedabad – 380 054. (Gujarat).	Eco-Labeling and Promotion of Eco-Friendly Products
8	Dr. N. Godhantaraman, Programmer Officer	Department of Zoology University of Madras Life Sciences Building Guindy Campus Chennai – 600 025. (Tamil Nadu).	Micro-organisms and environmental management
9	Ms. Ambika Sharma, Senior Information Communication Specialist and Mr. Rajiv Gupta	Development Alternatives B-32, Qutab Institutional Area Tara Crescent, New Mehrauli Road New Delhi – 110 016.	Environmentally Sound Appropriate Technologies and Sustainable Livelihoods
10	Mr. Sudhindra H.S., IT Assistant	Environmental Management and Policy Research Institute (EMPRI) Urban Eco-Park, 100 Ft. Road, Peenya Industrial Area, Phase – III Bangalore – 560 058. (Karnataka).	Eastern Ghats Ecology
11	Mr. Bharat Kumar Ravuru, Project Faculty	Environmental Protection Training and Research Institute (EPTRI) 91/4, Gachibowli Hyderabad – 500 032. (Andhra Pradesh).	Capacity Building for Environment Management
12	Mr. Ajith Kumar	Foundation for Revitization of Local Health Traditions (FRLHT) 74/2, Jarakbande Kaval Attur Post via Yelehanka Bangalore – 560 064. (Karnataka).	Conservation of Medicinal Plants

Sr. No.	Name of the Participant & Designation	Organization and other details	Subject Assigned
13	Mr. Bharat Kumar Jain, Member Secretary	Gujarat Cleaner Production Centre Block No. 4, 3 rd Floor Udyog Bhawan, Sector – 11 Gandhi Nagar – 382 017. (Gujarat).	Cleaner Production and Technology
14	Mr. T.K. Bandopadhyay, Technical Manager	Indian Centre for Plastics in the Environment (ICPE) 1009, 10 th Floor, Vijaya Building 17 Barakhamba Road New Delhi – 110 001.	Management of Plastic, Polymer Wastes and Biopolymers, Impacts of Plastic on Eco-System
15	Dr. U. Suryanarayana Murty	Indian Institute of Chemical Technology Habsiguda, Uppal Road Hyderabad – 500 007. (Andhra Pradesh).	Bioinformatics - Vector Control
16	Mr. Om Prakash Wali, Consultant	Indian Institute of Foreign Trade (IIFM) IIFT Bhawan B-21, Qutab Institutional Area New Delhi – 110 016.	International Trade and Environment
17	Dr. Vinay K. Sinha, Associate Professor	Indian Institute of Management (IIM) Nehru Nagar P.O. Box 357 Bhopal – 462 003. (Madhya Pradesh).	Grassland Ecosystems and Agro-forestry
18	Prof. P.D. Jose	Indian Institute of Management Bannerghatta Road Bangalore – 560 076. (Karnataka).	Environmental Management in Management Schools
19	Dr. Gurfan Beig, Assistant Director	Indian Institute of Tropical Meteorology (IITM) Dr. Homi Bhabha Road Pune – 411 008. (Maharashtra).	Acid Rain and Atmospheric Pollution

Sr. No.	Name of the Participant & Designation	Organization and other details	Subject Assigned
20	Dr. Anuj Baruah, Assistant Professor	Institute of Advance Study in Science & Technology (IASST) Khanapara Jawahar Nagar Guwahati – 781 022. (Assam).	Environmental Problems in Tea Gardens
21	Ms. Leena Pramodhini	Madras School of Economics Gandhi Mandapam Road Chennai – 600 025. (Tamil Nadu).	Environmental Economics
22	Dr. (Ms.) Nandita Singh, Scientist C	National Botanical Research Institute (NBRI) Rana Pratap Marg Lucknow – 226 001. (Uttar Pradesh).	Indicators of Plant Pollution
23	Mr. A.M. Khan	National Environmnetal Engineering Research Institute (NEERI) Nehru Marg Nagpur – 440 020. (Maharashtra).	Hazardous Waste
24	Ms. Rao Sumitha & Ms. B.E. Pushpa Kadam, Documentation Incharge	National Law School of India University Nagarbhavi P.O. Box – 7201 Bangalore – 560 072. (Karnataka).	Environmental Law
25	Dr. S.K. Saraswat Dr. D.P. Singh Dr. P. Roy	National Museum of Natural History (NMNH) FICCI Museum Building Barakhamba Road New Delhi – 110 001.	Museology with Special Reference to Natural History
26	Ms. D. Jyothi, Scientist & Dr. Aditya Mukherjee	National Ship Design and Research Centre Gandhigram Visakhapatnam – 530 005. (Andhra Pradesh).	Marine Offshore Ecosystem

Sr. No.	Name of the Participant & Designation	Organization and other details	Subject Assigned
27	Dr. Amiya Kumar Sahu Dr. M.V.M. Desai	National Solid Waste Association of India (NSWAI) 25, Unique Industrial Estate Veer Savarkar Marg Prabhadevi Mumbai – 400 025. (Maharashtra).	Urban Municipal Waste Management
28	Dr. M. Brahmam, Head, Aromatic & Medicinal Plants Division	Regional Research Laboratory Bhubaneswar – 751 013. (Orissa).	Coastal Shelterbelt
29	Mr. S. Narendra Prasad, Senior Principal Scientist	Salim Ali Centre for Ornithology and Natural History Anaikatty P.O. Coimbatore – 641 108. (Tamil Nadu).	Wetland Ecosystem
30	Mr. Tamilselvan Mr. D.K. Chatterjee	School of Environmental Sciences Jawaharlal Nehru University New Delhi – 110 067.	Biogeochemistry
31	Mr. Kumar Rajnish, Web Administrator	Sulabh International Institute of Health & Hygiene Sulab Bhawan Mahavir Enclave New Delhi – 110 045.	Hygiene, Sanitation and Environment, Sewage Treatment Systems and Technology
32	Mr. Shantanu Ganguly, Information Analyst	Tata Energy Research Institute (TERI) Darbari Seth Block Habitat Place, Lodi Road New Delhi – 110 003.	Renewable Energy and Environment
33	Mr. Suresh Kumar, Joint Director	Waterfalls Institute of Technology Transfer (WITT) J-29, South Extension – I New Delhi – 110 049.	Environmental Audit and Accounting
34	Mr. G. Areendran, Head, IGCME	World Wide Fund for Nature – India 172-B, Lodi Estate Max Mueller Marg New Delhi – 110 003.	Non Government Organisations Media and Parliament Matter Related to Environment

Sr. No.	Name of the Participant & Designation	Organization and other details	Subject Assigned
35	Dr. Nandita Krishnan Mr. R. Sudhakar Mr. Mohan Raj Mr. Mukherjee Ms. Sandhya Mr. Anand Kumar	C.P.R. Environmental Education Centre (CPREEC) Chennai (Tamil Nadu).	Conservation of Ecological Heritage and Sacred Sites in India
36	Shri. Harjit Singh Dr. Indrani Chandrasekharan Dr. A. Annadurai Mr. Sanjay Gupta Ms. Sawarnima Jaitely Mr. Vimal Bhist	ENVIS Secretariat Ministry of Environment and Forests Paryavaran Bhawan CGO Complex Lodi Road New Delhi – 110 003.	
	Absent		
37		Environment Management Division Confederation of Indian Industries (CII) India Habitat Centre 4 th Floor, Core 4A Lodi Road New Delhi – 110 003.	Industry - Government Environmental Interface

Annexure - II

Schedule for the Second "Training Cum Performance Evaluation Workshop"

06-10-2003 (Thursday)

Session 1 : Inaugural Session

0900 – 0930 Registration
0930 – 0945 Welcome address by the Director, CPREEC
0945 - 1015 Inaugural address by Shri. Harjit Singh, Senior Advisor, Ministry of Environment and Forests, New Delhi
1015 – 1045 Lecture on Web based Database Management System
1045 – 1100 Vote of thanks

1100 – 1130 Tea

1130 – 1200 Environmental Information System Dr. Indrani Chandrasekharan, Director, Ministry of Environment and Forests, New Delhi
1200 – 1230 Presentation — ENVIS website (<http://www.envis.nic.in>)
1230 – 1300 Presentation — Ministry's website (<http://envfor.nic.in>)

1300 – 1400 Lunch

Session 2 : Presentation by ENVIS Node – Chemicals, Wastes and Toxicology

1400 – 1415 Indian Centre for Plastics in the Environment (ICPE), New Delhi
1415 – 1430 Gujarat Cleaner Production Centre (GCPC), Gandhi Nagar
1430 – 1445 Indian Institute of Tropical Meteorology (IITM), Pune
1445 – 1500 National Environmental Engineering Research Institute (NEERI), Nagpur
1500 – 1515 Central Pollution Control Board (CPCB), New Delhi
1515 – 1530 Central Building Research Institute (CBRI), Roorkee

1530 – 1600 Tea

1600 – 1630 Lecture on Web casting

Session 3 : Presentation by ENVIS Node – Chemicals, Wastes and Toxicology

1630 – 1645 National Solid Waste Association of India (NSWAI), Mumbai
1645 – 1700 Sulabh International Institute of Health & Hygiene, New Delhi
1700 – 1715 Indian Institute of Chemical Technology (IICT), Hyderabad
1715 – 1730 Centre for Environmental Studies (CES), Anna University, Chennai

1730 – 1745 School of Environmental Sciences, Jawaharlal Nehru University (JNU), New Delhi
1745 – 1815 Question answer and interactive session

07-10-2003 (Friday)

Session 4 : Presentation by ENVIS Node – Ecology & Ecosystem

0900 – 0915 Regional Research Laboratory (RRL), Bhubaneshwar
0915 – 0930 Salim Ali Centre for Ornithology and Natural History (SACON), Coimbatore
0930 – 0945 Indian Institute of Forest Management (IIFM), Bhopal
0945 – 1000 National Ship Design and Research Centre (NSDRC), Visakhapatnam
1000 – 1015 Environmental Protection Training and Research Institute (EPTRI), Hyderabad
1015 – 1030 Central Arid Zone Research Institute (CAZRI), Jodhpur
1030 – 1045 Institute of Advance Study in Science & Technology (IASST), Guwahati
1045 – 1100 National Museum of Natural History (NMNH), New Delhi
1100 – 1115 C.P.R. Environmental Education Centre (CPREEC), Chennai

1115 – 1145 Tea

Session 5 : Presentation by ENVIS Node – Media, Environment Education and Sustainable Development & Trade and Law

1145 – 1200 Centre for Environmental Education (CEE), Ahmedabad
1200 – 1215 World Wide Fund for Nature-India (WWF), New Delhi
1215 – 1230 Question answer and interactive session

1230 – 1300 Lunch

1300 – 1500 Field Visit to ENVIS Nodes

1. Regional Research Laboratory (RRL), Bhubaneshwar
2. Centre for Environmental Studies (CES), Bhubaneshwar

Session 6 : Presentation by ENVIS Node – Environment and Energy Management

1500 – 1515 Tata Energy Research Institute (TERI), New Delhi
1515 – 1530 Indian Institute of Management (IIM), Bangalore
1530 – 1545 Environmental Management and Policy Research Institute (EMPRI), Bangalore
1545 – 1600 Development Alternatives (DA), New Delhi

Session 7 : Presentation by ENVIS Node – Trade and Law

1600 – 1615	Waterfalls Institute of Technology Transfer (WITT), New delhi
1615 – 1630	Confederation of Indian Industries (CII), New Delhi
1630 – 1645	Indian Institute of Foreign Trade (IIFT), New Delhi
1645 – 1700	Consumer Education and Research Centre (CERC), Ahmedabad
1700 – 1715	National Law School of India University, Bangalore
1715 – 1730	Madras School of Economics (MSE), Chennai
1730 – 1800	Question answer and interactive session

08-10-2003 (Saturday)

Session 8 : Presentation by ENVIS Node – Flora, Founa and Conservation

0900 – 0915	Department of Zoology, University of Madras, Chennai
0915 – 0930	Foundation for Revitalization of Local Health Traditions (FRLHT), Bangalore
0930 – 0945	National Botanical Research Institute (NBRI), Lucknow
0945 – 1030	Question answer and interactive session

1030 – 1100 Tea

Session 9 : Concluding Session

1100 – 1200	Comments by the ENVIS Node (6 Nodes)
1200 – 1230	Report of the Workshop
1230 – 1245	Concluding remarks by Shri. Harjit Singh, Senior Advisor, Ministry of Environment and Forests, New Delhi
1245 – 1300	Vote of thanks

1300 – 1400 Lunch

Annexure - III

Feedback Form

Name:

Designation:

ENVIS Centre / Node:

URL:

Email:

Is the presentation method of performance appraisal evaluation through workshop appropriate? (Yes/No)

If 'YES", then why and what are the benefits?

If 'NO", then kindly suggest:

Guidelines to presentation:

Financial Issues:

Administrative Issues:

Technical / Content related to the website:

Any other (Please specify):

Annexure - IV

List of participants of the Training cum Performance Evaluation Workshop who submitted Filled-in Feedback Forms

Sr. No.	Name of the Participant & Designation	Organization	Subject Assigned
1	Mr. Manish Prajapati, Senior Research Fellow	Central Arid Zone Research Institute (CAZRI) Dr. Raheja Library Jodhpur – 342 003. (Rajasthan). Website: http://cazri.raj.nic.in/envis.htm Email: dcojha@cazri.raj.nic.in	Desertification
2	Dr. L.P. Singh, Scientist	Central Building Research Institute (CBRI) Roorkee – 247 667. (Uttaranchal). Email: singh_cbri@yahoo.co.in	Fly Ash
3	Mr. Mahendra Pandey, Scientist	Central Pollution control Board (CPCB) Parivesh Bhawan CBD-cum-Office Complex East Arjun Nagar Delhi – 110 032. Website: http://cpcb.nic.in Email: alpha@cpcb.nic.in	Control of Pollution (Water, Air and Noise)
4	Mr. Bhadresh N. Bhatt, MIS Supervisor	Consumer Education and Research Centre (CERC) Suraksha Sankool Thaltej, Gandhinagar Highway Ahmedabad – 380 054. (Gujarat). Website: http://www.cercindia.org/envis.htm Email: cerc@wilnetonline.net	Eco-Labeling and Promotion of Eco-Friendly Products

Sr. No.	Name of the Participant & Designation	Organization	Subject Assigned
5	Dr. N. Godhantaraman, Programme Officer	Department of Zoology University of Madras Life Sciences Building Guindy Campus Chennai – 600 025. (Tamil Nadu). Website: http://www.unom.ac.in/envis/index.html Email: envis_mem@yahoo.com	Micro-organisms and environmental management
6	Ms. Ambika Sharma, Senior Information Communication Specialist	Development Alternatives B-32, Qutab Institutional Area Tara Crescent, New Mehrauli Road New Delhi – 110 016. Websites: http://www.daervis.org & http://www.dainet.org/envis.htm Emails: dainet@sdalt.ernet.in & daervis@sdalt.ernet.in	Environmentally Sound Appropriate Technologies and Sustainable Livelihoods
7	Mr. Sudhindra H.S., IT Assistant	Environmental Management and Policy Research Institute (EMPRI) Urban Eco-Park, 100 Ft. Road, Peenya Industrial Area, Phase – III Bangalore – 560 058. (Karnataka). Website: http://envisempri.kar.nic.in Email: etikspcb@gaisbgoi.vsnl.net.in	Eastern Ghats Ecology
8	Mr. Bharat Kumar Ravuru, Project Faculty	Environmental Protection Training and Research Institute (EPTRI) 91/4, Gachibowli Hyderabad – 500 032. (Andhra Pradesh). Websites: http://www.eptri.com & http://www.envis-eptri.org Email: bharath@eptri.com & bharathrkumar@yahoo.com	Capacity Building for Environment Management

Sr. No.	Name of the Participant & Designation	Organization	Subject Assigned
9	Mr. Bharat Kumar Jain, Member Secretary	Gujarat Cleaner Production Centre Block No. 4, 3 rd Floor Udyog Bhawan, Sector – 11 Gandhi Nagar – 382 017. (Gujarat). Website: http://www.gcpcgujarat.org Email: gcpc@rediffmail.com	Cleaner Production and Technology
10	Mr. T.K. Bandopadhyay, Technical Manager	Indian Centre for Plastics in the Environment (ICPE) 1009, 10 th Floor, Vijaya Building 17 Barakhamba Road New Delhi – 110 001. Website: http://www.envis-icpe.com Email: icpe@vsnl.net	Management of Plastic, Polymer Wastes and Biopolymers, Impacts of Plastic on Eco-System
11	Mr. O.P. Wali, Consultant	Indian Institute of Foreign Trade (IIFM) IIFT Bhawan B-21, Qutab Institutional Area New Delhi – 110 016. Website: http://envis.iift.ac.in Email: opwali@iift.ac.in	Internation Trade and Environment
12	Dr. Vinay K. Sinha, Associate Professor	Indian Institute of Management (IIFM) Nehru Nagar P.O. Box 357 Bhopal – 462 003. (Madhya Pradesh). Websites: http://envis.iifm.ac.in & http://www.iifm.org Emails: envis@iifm.org & vksinha@iifm.org	Grassland Ecosystems and Agro-forestry
13	Dr. Gurfan Beig, Assistant Director	Indian Institute of Tropical Meteorology (IITM) Dr. Homi Bhabha Road Pune – 411 008. (Maharashtra). Website: http://envis.tropmet.res.in Email: beig@tropmet.res.in	Acid Rain and Atmospheric Pollution

Sr. No.	Name of the Participant	Organization	Subject Assigned
14	Dr. Anuj Baruah, Assistant Professor	Institute of Advance Study in Science & Technology (IASST) Khanapara Jawahar Nagar Guwahati – 781 022. (Assam). Website: http://www.nei-envis.org Emails: info@nei-envis.org & anuj_baruah@yahoo.com	Environmental Problems in Tea Gardens
15	Dr. (Ms.) Nandita Singh, Scientist C	National Botanical Research Institute (NBRI) Rana Pratap Marg Lucknow – 226 001. (Uttar Pradesh). Emails: hmbehl@attglobal.net & nandiasp@hotmail.com	Indicators of Plant Pollution
16	Ms. B.E. Pushpa Kadam, Documentation Incharge	National Law School of India University Nagarbhavi P.O. Box – 7201 Bangalore – 560 072. (Karnataka). Website: http://www.nlsenlaw.org Email: ceera@nls.ac.in	Environmental Law
17	Ms. D. Jyothi, Scientist	National Ship Design and Research Centre Gandhigram Visakhapatnam – 530 005. (Andhra Pradesh). Website: http://www.marineoffshoreecosystem.org Email: envis_nsdrc@rediffmail.com	Marine Offshore Ecosystem
18	Dr. M. Brahmam, Head, Aromatic & Medicinal Plants Division	Regional Research Laboratory Bhubaneswar – 751 013. (Orissa). Website: http://www.rrlbhu.res.in/envis Emails: brahmam@rrlbhu.res.in & mopurib@yahoo.com	Coastal Shelterbelt

Sr. No.	Name of the Participant & designation	Organization	Subject Assigned
19	Mr. S. Narendra Prasad, Senior Principal Scientist	Salim Ali Centre for Ornithology and Natural History Anaikatty P.O. Coimbatore – 641 108. (Tamil Nadu). Website: http://www.wetlandsofindia.org Email: wetlands@sancharnet.in & salimali@vsnl.com	Wetland Ecosystem
20	Mr. Kumar Rajnish, Web Administrator	Sulabh International Institute of Health & Hygiene Sulab Bhawan Mahavir Enclave New Delhi – 110 045. Website: http://www.sulabervis.org Emails: sulabervis@sulabervis.org & sulabervis@indiatimes.com	Hygiene, Sanitation and Environment, Sewage Treatment Systems and Technology
21	Mr. Shantanu Ganguly, Information Analyst	Tata Energy Research Institute (TERI) Darbari Seth Block Habitat Place, Lodi Road New Delhi – 110 003. Website: http://www.teriin.org Email: shantanu@teri.res.in	Renewable Energy and Environment
22	Mr. Suresh Kumar, Joint Director	Waterfalls Institute of Technology Transfer (WITT) J-29, South Extension – I New Delhi – 110 049. Website: http://www.witts.org Email: witt@nde.vsnl.net.in	Environmental Audit and Accounting
23	Mr. G. Areendran, Head, IGCME	World Wide Fund for Nature – India 172-B, Lodi Estate Max Mueller Marg New Delhi – 110 003. Website: http://www.wwfenvi.in Email: gareendran@wwfindia.net	Non Government Organisations Media and Parliament Matter Related to Environment