

# REPORT ON PARTICIPATION OF GCPC-ENVIS CENTRE IN WORKSHOP-CUM-TRAINING PROGRAMME ON GIS / GEO-MAPPING

ORGANIZED BY: MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE  
GOVERNMENT OF INDIA



**GUJARAT CLEANER PRODUCTION CENTRE**

ENVIS CENTRE ON: CLEANER PRODUCTION & CLEAN TECHNOLOGY

SUPPORTED BY: MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE  
GOVERNMENT OF INDIA

## WORKSHOP-CUM-TRAINING PROGRAMME ON GIS / GEO-MAPPING

21<sup>ST</sup> – 23<sup>RD</sup> SEPTEMBER, 2017, GANDHINAGAR

Gujarat Cleaner Production Centre – ENVIS Centre officials Dr. Bharat Jain, Member Secretary, GCPC & Coordinator, ENVIS, Shri P.R. Rathod, Programme Officer, ENVIS, Ms. Priyanka Joshi, Information Officer, ENVIS, Shri Heer Desai, Project Assistant, GCPC-ENVIS, Ms. Divya Prajapati, I.T. Assistant, ENVIS participated in a Workshop-Cum-Training-Programme on GIS / GEO-Mapping organized by Ministry of Environment, Forest & Climate Change, Government of India at the capital city of Gujarat, Gandhinagar from 21<sup>st</sup> – 23<sup>rd</sup> September, 2017.

The programme witnessed participation of dignitaries Dr. Anandi Subramanian, Senior Economic Advisor, Ministry of Environment, Forest & Climate Change, Government of India, Shri Yashvir Singh, Economic Advisor, Ministry of Environment, Forest & Climate Change, Government of India, Shri Kumar Rajnish, National Programme Coordinator, ENVIS Cell, Ministry of Environment, Forest & Climate Change, Government of India.

The inaugural session started with welcoming the dignitaries on dais by the host institution. Speaking on the occasion Dr. Anandi Subramanian, Senior Economic Advisor, Ministry of Environment, Forest & Climate Change, Government of India during her address she shared the objective behind organizing this workshop including its benefits to ENVIS Centres. She mentioned about the Grid based Monitoring and Green Skill Development Programme which should be taken up by ENVIS Centres.

The session continued with presentation by Shri Yashvir Singh, Economic Advisor, Ministry of Environment, Forest & Climate Change, Government of India mentioning about the existing mandate of ENVIS Scheme and discussing the way forward. He mentioned that the ENVIS Scheme will be now monitored towards "Decision Support System for Environmental Policy and Outcome / Impact Valuation to MoEFCC.

He mentioned about the "Green Skill Development Programme" initiated by MoEFCC, he appreciated the efforts of CPCB-ENVIS and GCPC-ENVIS Centre for preparation of training modules as per NSQF specifications. He mentioned about various training modules prepared on various subjects by the centres including the training module of "ETP Operators developed by GCPC-ENVIS Centre" saying that it will be helpful in creating job opportunities and creating sustainable development, he appreciated the efforts of GCPC-ENVIS Centre for effectively preparing and submitting these modules on time to the Ministry.

He also showcased few success stories of ENVIS Centre located in Dehradun under Green Skill Development Programme. Speaking on the occasion he mentioned about the "Grid Based Decision Support System" (GRIDSS) for Sustainable Management of Natural Resources, under this the districts will be divided in 9 km X 9km grid and under this the aim is to cover all 716 districts by 31<sup>st</sup> March, 2020 including a repeat of survey every 2 years.

The candidates successfully completing the GSDP would be engaged in survey of grids for collection of information on various environmental parameters.

During his presentation he threw some light on “Community-driven Environmentally Sustainable Villages Programme” (CESVP), the programme envisages mobilizing communities on environmental issues, creating decentralized models of development empowering local communities, and building the right atmosphere in villages to adopt environmentally sustainable practices on community level. Speaking on the occasion he mentioned that the State ENVIS Centres and the Thematic ENVIS Centres would serve as a subject / technical experts for implementing the environmental development agenda under “Saansad Adarsh Gram Yojna” (SAGY) and “Member of Parliament Local Area Development Scheme” (MPLADS) which would also facilitate the achievement of Sustainable Development Goals (SDGs) and the Intended Nationally Determined Contributions (INDCs). Under this the modalities would be worked out in consultation with Rural Development, Panchayati Raj, Drinking Water and Sanitation for SAGY.

During the presentation he mentioned that Memorandum of Understanding (MoUs) will be signed with each ENVIS hubs and resource partners in next two and half years inclusive of updation of 17 modules and 48 sub-modules covering all 338 parameters of “Indian State Level Basic Environment Information Database” (ISBEID) including repository of Environmental Knowledge : Maintenance and Updation of subject-specific database and production of value added products such as : educational kits on various themes including international protocols, environmental videos, photo bank, mobile applications, CDs, case studies, success stories, abstracts, journals and research papers etc. including the preparation of Skilling Modules and Undertaking of Green Skill Programmes. The mandated to be continued will be circulation of quarterly published newsletters, sending of monthly updates on research contributions made by ENVIS Hubs and RPs to state and national policy. The presentation continued mentioning about preparing the pictorial map of the district undertaken by the centre under Sansad Adarsh Gram Yojna showing different pictorial maps of various regions of India inclusive of West Bengal and Punjab.

During the presentation he enlightened the participants briefing about a new and innovative initiative undertaken by the students of Amity University i.e. about “Butterfly Count”.

The presentation continued mentioning about the publicity campaign to be held in October, 2017 to create awareness on environmental consciousness amongst the schools and universities students, parents and teachers through print, audio-visual and electronic media including the preparation of publicity material, pamphlets for wider circulation and publicity by the ENVIS Centres.

Speaking on the occasion he also mentioned about the “Grid Based Decision Support System” (GRIDSS) covering of various parameters for the survey inclusive of socio-economic parameters, ecological parameters, agriculture, mining, pollution water and energy audit, solid waste management etc. under which training will be imparted to ENVIS Officials on “Geographical Information System” (GIS) and Geo-mapping at “Bhaskaracharya Institute for Space Applications and Geo-Informatics” (BISAG) established by the Department of Science and Technology, Government of Gujarat at Gandhinagar, Gujarat.

He mentioned about he expected outcomes of these Grid Wise Survey saying that it will help the Central and State Governments in framing various policies, decision making and planning with respect to Environment, Forest & Climate Change.

The expected outcomes and impacts of these various schemes and new initiatives includes skill up-gradation and generation of new employment opportunities for youth in the field of environment, forest and wildlife sectors.

Grid Based Survey of Districts would sensitize the State and district administration to take early steps to address the various environmental and public health issues and ultimately resulting in a sustainable environment and good quality of life for general public.

The environmental best practices at village and district level would help in the development of effective environmental policies at the State and National Level and will bring out attitudinal changes in people with respect to environmental conservation and protection and the theme based environmental information and value added information products would greatly benefit all stakeholders / policy planners in the Ministry and researchers, students, scientists etc.

On 22<sup>nd</sup> and 23<sup>rd</sup> September, 2017 the various ENVIS officials from different parts of the country had undergone through GIS Training at Bhaskaracharya Institute of Space Applications and Geo-Informatics (BISAG), Gandhinagar.

Shri T.P. Singh, Director, Bhaskaracharya Institute of Space Applications and Geo-Informatics (BISAG), Gandhinagar addressed the participants sharing his experience working in the field of Geographical Information System (GIS). He enlightened the participants mentioning that people found this GIS a very difficult but he motivated participants saying that it is very easy to operate GIS and it can be a very useful tool for planning and management.

He mentioned that the GIS data which created in the entire country is 1:50,000 scale which was highly noticed by the participants and he added that every government land has been mapped and kept on GIS Portal. He concluded motivating participants saying that BISAG will provide all sort of training to the participants willing to learn GIS.

The presentation continued giving various information about digitizing GIS data on the Q-GIS software creating of raster and vector layers including details to be collected during field survey inclusive of date,

The training was provided by the officials of BISAG to the ENVIS Centres wherein they demonstrated the software called Q-GIS an open source software available on internet. The trainers provided training on creating 'shape files' in forms of point, polygon and line for mapping which is the first and the foremost thing to create GIS Data including tagging of various information through attributes for examples road can be mapped through line shape file, any location through point and area can be mapped with the help of polygon. The training was provided to the officials of various ENVIS Centres on Data Mapping of various districts of the country inclusive of various socio-economic parameters, geo-climatic zones, natural resource management, solid waste management etc.



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