

Management Development Programme
On
ROLE OF SCIENTISTS IN ENVIRONMENT AND NATURAL RESOURCE MANAGEMENT

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BACKGROUND

Present, global scenario is alarming as one-third of the world's population is facing water scarcity; 70% of the world's marine fisheries are depleted or overexploited; soil degradation is affecting 30% of the world's irrigated lands, 40% of rain-fed agricultural lands, and 70% of grasslands and every year 1.0 million people die prematurely from respiratory illnesses associated with air pollution. Likewise, a delay in reducing green house gas (GHG) emissions is likely to significantly constrain opportunities to achieve lower stabilization levels and increase the risk of more severe and irreversible impacts. A degraded environment exacerbates social conflict, and undermines poverty reduction efforts and growth. These impacts are more acute where livelihoods directly rely on the services of natural assets.

Sustainable Development Goals (SGD) set by United Nation and which has been accepted globally by all the countries, lays new road map for the scientific communities to achieve the goal of sustainability by 2030. This is implemented in 2016 by Indian government. With this, focus on research in natural science is at a very crucial juncture; where it has to balance the economic demands of huge population growth along with sustainably restoring the rapidly depleting ecological balance of terrestrial and marine ecosystem (SGD goal 14 & 15). This also provides new opportunities for scientific community to expand new horizons of spatial and temporal research across sector.

Therefore, scientists of different disciplines have to develop capacity in order to be knowledgeable about new environmental challenges relating to SGD goals and its application to improve the deteriorating environment. Multiple examples exist of natural resource deterioration, depletion and worsening environmental quality, these changes negatively affects the poor, marginalized groups and compromises with sustainability goals of Sustainable development goals, well being of human and future generations. The environment, development structures and institutions are fundamentally interrelated, within a general context of sustainable development.



Participants of the training programme
During class room session



THE FOCUS

The focus of this course is to add knowledge and develop understanding of natural resource management, environment management, climate change, assessment tools like environment and social impact assessment, corporate social and environmental responsibility and policy debate on climate change. There are consistent skills that scientists, dealing with environment should exemplify like self-skills, relational skills, strategic thinking skills and systemic thinking skills. These skills can be learned and they are the central focus of the course.

The learning of applied research tools like adaptive management, collective action, and environmental psychology to resolve overuse, mismanagement, and contamination of natural resources, results in overcoming the negative unforeseen consequences of development efforts characterized by unclear property rights, perverse economic incentives, poor governance, and badly designed production processes. The roles of scientists are expanding in the coming era and it will demand for new skills to meet the new scale and element of environment changes for providing solution. Effective conservationist must go beyond a single discipline to become a good communicator, people manager, along with being the environmental manager. The culmination of above three speaks of a successful leader. This training Course emphasizes knowledge development besides developing influential leadership and communication skills to facilitate interactions among scientists and decision-makers on issues related to natural resource and environment management. It will offer an opportunity to learn skills that can be applied to a wide range of situations. This course is about added knowledge, which one can enhance or learn and consciously use to bring the dreams closer to reality every day.

With adequate knowledge of natural resources and environment, technology and behavioural techniques will help the interest groups to resolve and improve the efficiency and effectiveness of result delivery, make scientists responsive to societal needs and demands of restoring the sustainable natural resource utilization practices. The course is designed for scientists/ behavioural scientists/natural resource/ environmental professionals and agriculture scientists who are ready to make a difference and learn how to negotiate on natural resource and environment management issues. The aim of this training course is to disseminate the knowledge of environmental issues and build their capacity of policy advocacy skill for adapting with climate change.

BROAD COURSE OBJECTIVES

- Understanding of sustainable development goal (SGD)
- Science, technology and society, systemic Skills to enhance the efficiency of scientists from a system approach.
- Landscape management and Common Property Resource Management/Natural Resources management (forest, water, land and Grassland)
- Understanding of environment, planning and management
- Renewable energy management
- Climate change, CDM, adaptation and mitigation
- Planning and analysis tools for Natural Resources assessment like GIS, Remote sensing
- Environment and social impact assessment
- Corporate Social and Environmental Responsibility(CSR)
- Policy of natural resources and environment management
- Law and regulation dealing with natural resource management
- Soft skills and Self Development Skills

On the above focus, this course will develop environmental leadership qualities for greater effectiveness, explore and enrich scientists with more recent knowledge on the natural resource and environment management.

VENUE AND ADDED ATTRACTION

Training programme will be held at IIFM, Bhopal. The Indian Institute of Forest Management (IIFM) is nationally 8th ranked premiere autonomous institute under Ministry of Environment and Forests (MoEF), Government of India. It caters to the demands of managerial capabilities in forest and allied sector to ensure efficiency in natural resource management use and conservation.

IIFM has well equipped sports complex consisting of Badminton, Table Tennis and Tennis which can be utilized after the days' learning for physical activity by the participants.



METHODOLOGY

The training will include lectures, exercises, discussion, group work and case discussion, film show and field exercises.

PARTICIPANTS

This is a DST sponsored training programme. The institute will select 25 scientists in discussion with DST, maintaining regional diversity and groups' heterogeneity in ranks.

DURATION

The programme is scheduled from 30th Jan 2017 to 3rd Feb 2017 and it is of five days duration, which includes one day fieldwork to have first hand experience of environmental issues and resource management in MP.

