Perspective on divers And

Edited by Taj Uddin Khan Anup Dey



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ASSAM COLLEGE TEACHERS'
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PERSPECTIVE ON BIODIVERSITY AND SUSTAINABLE DEVELOPMENT

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We are very thankful to Assam College Teachers' Association, H.O. Guwahati, Assam for publishing this book with patience, care and interest. We are confident that the book will be widely accepted by the Undergraduate and Post Graduate students, teachers, scientists and researchers in the field of Natural Sciences, Economics, Arts, Humanities, Social Sciences and Environmental Sciences. The present book, we do hope, will help the contributors for shaping their career and will add another feather in the cap of honour of the ACTA

LONG LIVE! ASSAM COLLEGE TEACHERS ASSOCIATION

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Taj Uddin Khan Anup Dey

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between Bangladesh and North East India through the river Brahmaputra and Barak-Surma.

 International tourist circuit can be identified and a specific programme may by an integrated effort of the neighboring countries

leferences

- Annual Report, Ministry of Tourism, Govt. Of India, 2010-2012
- National Tourism Policy, 2012
- Look East Policy Document, (though internet, retrieved on various dates)
- 4. http://www.incredibleindia.org (retrieved on various dates)
- http:// www.wttc.org (retrieved on various dates)
- http://www.unexplored-ne-india.com(retrieved on various dates)
- . Chattapadhyay, Kunal (2008): Understanding Tourism Economics, Kanishka Pulishers, New Delhi
- Singh, Ratnadeep (2000): Tourism Marketing Principle, Policies and Strategies, Kanishka Pulishers, New Delhi
- Chattapadhyay, Kunal (1999): Economic Impact of Tourism Development- An Indian Experience, Kanishka Pulishers, New Delhi
- 10. Rakesh Mohan (2003): Economic Development of the North East Region: Some Reflections, Reserve Bank of India Bulletin
- . Das, Dr. Dinesh: Tourism Industry in North-East Indian States Prospects and Problems, Global Research Methodology Journal V01-II, 7th issue, Nov-Dec-Jan, 2012-13
- Bezbaruah, M. P (1999): Indian Tourism Beyond Millennium Gyan Publishers, New Delhi.

Sustainable Development and Women

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In today's world when pollution is attacking the human life everywhere, the term sustainable development is very useful. Sustainable development assures us about the fulfilment of present needs without hampering the future generations. Women are closely associated with environmental development and protection. Worldwide movements were started by women to protect environment. Mention may be made of Green Belt Movement, Chipco movement etc. In this article the role of women in sustainable development is discussed elaborately.

The term "sustainable development" occupies an important place in environmental protection. It also assures the quality of gender for environmental conservation and free from pollution. Women both literate and illiterate are closely associated with environmental development and conservation. Women bear child nourish them and try to protect themselves from all kind of problems in life. Without women it is not possible. They are always the proctor of bio-diversity. In spite of a number of difficulties faced by the women they are very much active to protect the environment from pollution. It may be consciously or unconsciously, for their daily need.

To protect a healthy environment world-wide organization and movement have been started by women. For example the Green Belt Movement of Kenya. This movement was launched in Kenya in 1977 by Kenya's environmental activist Wangaru Maathai (1940-

from pollution. About 20 million trees were planted by the 50,000 movement. It prevents desertification, restores soil and protects water among the people. 6,000 villages came under the fold of this movement . This Green Belt movement created much enthusiasm of sustainable development. The aim of this movement was to develop women members of this movement. .A number of indigenous trees were planted by women under this relation between women and natural resources in the grass root level 2011) who achieved the Nobel Prize in 2004 for her work in the field

played very important role in this movement. Garua Devi, Sudesha embraced trees to save it from jungle cutter. Many female activists Devi, Bachni Devi were most prominent among them. prominent environmentalist of Garhwal launched this movement. But conservation movement in India in 1973. Sundarlal Bahuguna a the idea of this Chipco Movement was of his wife. Here people which started in India is Chipco Movement. It was mainly a forest Another important movement for protection of environment

collection to conservation in all these works women do hard labour 80% in Africa, 60% in Asia, 30-40% in Latin America. From seed with male workers and produce food grains. Women produce upto women are mostly engaged in agriculture. They work hard along etc. play a very important role in a society as conservation of renewal to protect renewal resources like plantation, fishery development are very closely connected with environment. Participation of women women in sustainable development. It cannot be denied that women environmental issue . The prominent ecofeminist thinker of India is environmentalism is a feminist issue and feminism is also partly an resources is very much necessary for human life. In developing areas Vandana Shiva. Eco-feminism throw light on the positive role of Francoise d'Eaubonne. It is a recent concept which opines that In 1974 the word Eco-feminism is coined by the French feminist

Though in urban areas women are not closely related with

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connected with environment they learn more about nature, of trees or plants in the jungle. As they women are working in fields collect firewood not by cutting trees but by accumulating dry parts of biodiversity. Not only in forest and field, but also in villages' women of their own family as well as society, they have a special sympathy vegetables, food grains and other requirements. They go to jungle, As they are to prepare food for their family, they collect water, fuel environment but in rural areas they have a deep relation with nature the leader of "Narmada Bachao Andolon" and Maneka Gandhi, very much advanced in protecting and recreating natural products. development. Women of this subcontinent especially of India are rare animals and birds, which also help very much in sustainable for nature and do work for sustainable development and protection As the women are very much conscious about the economic condition women are closely related with various environmental movements. productivity of soil, water, trees etc. That is why many common prominent environmentalist and the Central Government minister, in They love nature. Here mention may be made of Medha Patekar,

so they need leaf of mango tree, flowers, tulsi leaves etc. So these own society. In every society there are some rituals which are related by women. No doubt it is a clear indication of protection of different pujas are performed in which various trees are worshiped trees should be planted and protected. In Hindu societies fasting for woman of Hindu religion worship Devi Lakshmi in home and in doing rituals which indicate the protection of environment. For example with environment. In our society we perform various worship and environment. Women are closely associated with culture and rituals of their

do not get proper recognition in a family, in a society or in a country. Women always have to fight for the establishment of their work. It But it is unfortunate that the efforts and contributions of women

is difficult for a woman to work in a society maintaining her home. But yet women are working for the betterment of family, society as well as the country. Besides lacking of proper education many women do not know how to use agrochemicals, prevent water pollution, fishery management, control erosion of soil etc. The Government, NGO's, and the society can take responsibility in this respect. By organising proper training course, workshop etc. this problem can be solved in a great extent. If there are proper education, security, support and sympathy women can contribute a lot in bio-diversity, and sustainable development which may save our environment from pollution.

Today, the world has been suffering from pollution, scarcity of food, various diseases etc. No medicine is sufficient to protect the health of human beings. In this situation nature can be helpful to provide some relief and remedy to man and that is why the sustainable development is very much necessary. Women with the help of society can do a lot to protect the world from pollution and supply food to the mouth of the starved.

References:

- Renu Sarma & Dr Baljit Kaushik: "Role of Women In Environmental Conservation". International Journal of Multidiciplinary Management Studies. Vol 1, issue 2, November 2011.
- N. Manivasakam: Environmental Pollution. 1984. Rp 2006. New Delhi. National Book Trust, India.
- www.greenbeltmovement.org.
- wikipedia, the free encyclopedia en.wikipedia,org>wiki> chipcomovement.

Latest Development of Molecular Markers for the Analysis of Genetic Diversity

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Introduction

and to summarize the potential prospects of genetic diversity [3]. the understanding of genetic diversity in various taxa across phylogeny, Currently, various types of molecular markers are in use to increase markers are the most powerful tools for genetic diversity analysis. and their nature (adaptive or non--adaptive or deleterious. Molecular level, and how much degrees of mutations taking place in populations diversity present in nature at both the coding and noncoding genomic maintenance of genetic diversity in nature remains controversial. diversity in nature, however, the origin, nature, function, and polysaccharides DNA and RNA). Many studies explained genetic since its early discovery in different biomolecules (enzymes, proteins, Widespread genetic diversity has been observed in natural populations species and populations is the basis of evolutionary change. variation and stress [1, 2]. Genetic diversity within and between diversity serves as a way for organisms to adapt to environmental species (interspecific) and between genus and families. The genetic among different organisms within same species (intraspecific), among whole genomes of organisms. Genetic diversity could be evaluated The basic question regarding genetic diversity is, how much of Genetic diversity refers to any variation in nucleotides, genes.

Molecular markers are detected on the basis of variation at the