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E-SOVENIER (ABSTRACT COLLECTION)

OF

ONE DAY NATIONAL SEMINAR

ENTITLED

CLIMATE CHANGE AND WATER SECURITY: CHALLENGES FOR ADAPTIVE WATER MANAGEMENT

Organized by

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(CHAMANLAL MAHAVIDYALAYA, HARIDWAR)

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Water Scarcity and Human Intervention

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38 million affected by contaminated water in India. A water catastrophe is waiting to happen…….Let's save the Earth from watertrophe.

How should we manage our water requirement? This is a question which is strangely enough, rarely asked and never really answered. India's share of world's water resources is only 4% although it contributes 7% of world's population. The average availability of water in India is about 2000-meter cube per person per year. It will be further reduced in the coming years as the population is increasing at the rate of about 2% per annum. Water resources are essential for life, livelihood and ecology. They are vital for economic development and are also crucial for food security, national security and energy security. We also know water is essential but too many of us think it's unlimited. In reality fresh water is a finite resource that is rapidly becoming scarce. In India, a warming climate is drying up lakes and rivers, while rapid urbanization and water pollution are putting enormous pressure on the quantity and quality of surface and ground water. While the World's most dramatic urban crisis unfolds, recent studies say at least 200 cities across the world are fast running out of water. An analysis by *Down To Earth* shows 10 of them are headed towards Day Zero, when the tap will run dry. In future, one in six large cities is likely to be at the risk of water deficit. Increased demand for urban water supply will put pressure on ground water resources.

The goal is to ensure sustainable water supply. For a sustainable water supply, there should be good coordination among the city's regulators, urban planners and hydrologists. Water efficiency, harvesting rain, recycling and reusing waste water are the best options followed in different parts of the world for a sustainable supply.

Key Words: Water Resources, Water Requirement, Water Scarcity, Sustainable water supply