

COMPREHENSIVE REPORT FOR THE ACTIVITIES AS A PART OF

WORLD ENVIRONMENT DAY 2024









CONSUMER EDUCATION AND RESEARCH CENTRE
ENVIRONMENT INFORMATION, AWARENESS, CAPACITY
BUILDING AND LIVELIHOOD PROGRAMME
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Competitions and Programs report by CERC-EIACP PC RP

Number of Infographics released: THREE



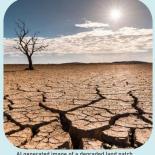








World Environment Day Land Restoration



Refers to the process of halting the degradation or rehabilitating degraded land, typically through activities like reforestation, soil conservation, and the protection of natural processes. A study by IIT Bombay revealed a dramatic rise in soil erosion within the Western Ghats, a world-renowned biodiversity hotspot. The findings show a staggering increase of nearly 94% since 1990. Let us go through what actions can be taken up to restore a patch of degraded Western Ghats.

- Location: Tapi and Dang district, Gujarat (northernmost tip of Western Ghats)
- Importance: Faces the most severe erosion, with a staggering 119%
- increase. Urgency for Restoration:

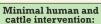
 The high rate of erosion signifies a critical ecological imbalance.

 Timely intervention is crucial to prevent further degradation and



Reforestation with local trees:

Since this part of Gujarat has moist deciduous forests, planting native species like teak, haldu, shisham, khai, and axlewood is ideal. These trees can be strategically planted along the edges of different systems (ecotone), on the borders of farms, as well as the barren hill slopes for maximum benefit.



Activities like illegal logging, slashand-burn farming, &excessive cattle grazing degrades the land. Patrolling can help stop illegallogging, but cameras and artificial intelligence can be used to keep a check onillegal activities. Additionally, educating the locals about the negative effects also helps



Ground water recharge

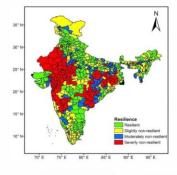
The slope gradients of this region present a hydrogeological challenge for groundwater recharge. Steep for groundwater recharge. Steep slopes promote rapid surface runoff, minimizing the infiltration of rainwater into the subsurface and consequently limiting groundwater recharge. However, farmlands &valley bottoms, can bestrategically utilized as infiltration zones to capture and redirect surface runoff for recharge and redirect surface runoff for recharge. and redirect surface runoff for recharge.



Sustainable farming practices:

Minimal usage of chemical pesticides and weedicides will ensure the integrity of the overall biodiversity and the land. Indigenous organic solutions like Neemastra, Brahmastra etc., can be used to replace the chemical pesticides.

Consumer Education and Research Centre



World Environment Day

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Drought Resilience in India: Addressing Ecological and Economic Challenges

- * Drought is a unique natural hazard.
- It causes damage to ecology and economy,
- The trend for the last many years shows that drought occurs almost every year, and leads to severe water-scarcity in many parts of India.
- Based on data from 2000 to 2014, only 241 of 634 (about 38%) districts in India were found to be resilient to drought or dry conditions.
- Some important measures be taken.



Water Conservation and Management:

Implementing efficient water conservation techniques such as rainwater harvesting, watershed management, and water recycling can help in reducing water scarcity during droughts



Improving Irrigation Infrastructure:

Upgrading irrigation infrastructure with modern technologies like drip irrigation and sprinkler systems can optimize water usage in agriculture, the sector that consumes the majority of India's water



Crop Diversification and Selection:

Encouraging farmers to diversify their crops and promoting drought-resistant crop varieties can mitigate the impact of drought on agriculture



Promoting Sustainable Agricultural Practices:

Adopting sustainable agricultural practices such as organic farming, agroforestry, and conservation agriculture can improve soil health and water retention, making farms more resilient to drought



Community Engagement and Awareness:

Educating and involving local communities in water conservation efforts through awareness campaigns, training programs, and participatory decision-making processes can enhance drought resilience at the grassroots level



Number of Posters released: ONE



Number of Word Cloud released: ONE

Environment



is a sum total of all the living and non-living elements and their effects that influence life.

What's wrong with the Environment?

Clicking any word in the word cloud reveals related information





Ocean.
Overfishing acidification Plastic pollution
Water and Food Insecurity Deforestation
Global warming Biodiversity IOSS Textile waste
Air pollution Fast fashion Melting glacier
Poor governance Cobalt mining
Unsustainable agriculture
Soil degradation









India has several national organizations, missions, and programs that focus on environmental challenges.

Mission LIFE

National Green Hydrogen Mission

Mangrove Initiative for Shoreline Habitats & Tangible Incomes (MISHTI)

Swachh Bharat Mission

Long Term Ecological Observatories (LTEO)

Green Skill Development Programme (GSPDP)

Indian Green Building Council (IGBC)

National Solar Mission

National Mission for Sustaining the Himalayan Eco - system

National Mission for Sustainable Agriculture

National Mission on Strategic Knowledge for Climate Change

National Clean Air Programme (NCAP)

India participates in several international organizations, Missions, Programs that address environmental issues. These organizations work together to develop solutions, policies, and funding for environmental projects and activities.

Intergovernmental panel on climate change (IPCC)

United Nations Framework Convention on Climate Change (UNFCCC)

Convention on Biological Diversity (CBD)

International Carbon Action Partnership (ICAP)

International Council for Local Environmental Initiatives (ICLEI)

United Nations Environment programme (UNEP)

Global Biofuels Alliance (GBA)

International Solar Alliance (ISA)

Ramsar Convention on wetlands

International Union for Conservation of Nature (IUCN)

Global Environment facility (GEF)

Earth System Governance (ESG)

Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)

International Renewable Energy Agency (IRENA)

United Nations Convention to Combat Desertification (UNCCD)

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Environmental Information, Awareness, Capacity Building and Livelihood Programme (EIACP) Programme Centre-Resource Partner on "Environment Literacy - Eco-labelling & Eco-friendly Products" www. cercenvis.nic.in



Number of Competitions: TWO

1. Online Quiz competition for Kids aged 6 to 15 years: A quiz competition for kids was aired using various social media platforms, on the theme of Environment.

Competition date: 29/5/23 to 6/6/23

Number of questions: 10

Number of participants: 65 (as on 5/6/24 12:00 pm)



2. Al-generated Art/Image competition: Invitation to participate in Al-generated art competition on the theme of Environment was aired through various social media platforms. The prize of INR 500 is also announced.

Competition date: 30/5/23 to 6/6/23

Number of entries: 3 (as on 5/6/24 12:00 pm)



Awareness session : ONE

Awareness session on World Environment Day to the students of Department of Food Science and Nutrition, Gujarat University and Department of Biotechnology, Gujarat Biotechnology University at CERC classroom. Total number of students: 8



