



**ENVIRONMENTAL INFORMATION, AWARENESS, CAPACITY BUILDING & LIVELIHOOD PROGRAMME CENTRE
(EIACP-PC)**

Ministry of Environment, forest and Climate Change (MOEF&CC), Govt. Of India

**CSIR – NATIONAL BOTANICAL RESEARCH INSTITUTE (NBRI)
RANA PRATAP MARG, LUCKNOW, INDIA**

WORLD ENVIRONMENT DAY CELEBRATION 5th JUNE, 2024

**Theme: Land Restoration, Desertification & Drought
Resilience**



Celebrations of World Environment Day-2024 #Land Restoration, Desertification and Drought Resilience

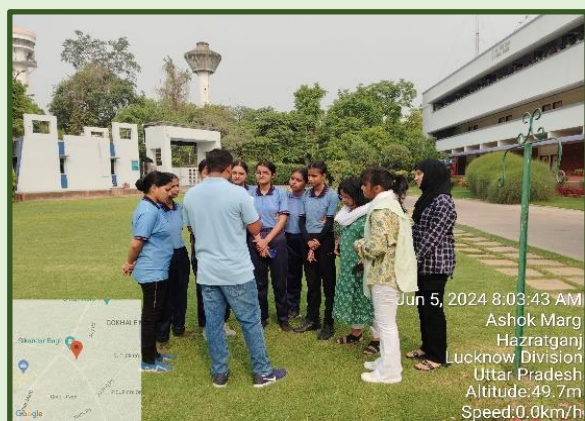
Environmental Information, Awareness, Capacity Building and Livelihood Program Center (EIACP) at National Botanical Research Institute celebrated “World Environment Day” on 5th June 2024 on this year theme “Land Restoration, Desertification and Drought Resilience” in collaboration with Integral University, CSIR-JIGYASA, Navyug Kanya Mahavidyalaya and Prithivi Innovations, was hosted at the Lotus auditorium of CSIR-NBRI, K.N. Kaul Block.



On the global theme of "Land restoration, Desertification and Drought Resilience", the event activities were majorly focused on the importance of protecting and restoring land resources. Dr. Pankaj Kumar Srivastava, Senior Principal Scientist and Co-ordinator of the EIACP-NBRI Programme Centre oriented participants about the importance to celebrate the World Environment Day and its current theme with #GenerationRestoration. He also emphasized that the new generation should come forward to act at the individual level and find new ways to protect the environment



Dr. Anju Patel, Scientist & Co-coordinator of the Programme Centre, talks about Mission Life and activities of EIACP-NBRI programme centre. Moreover, Dr Anju and Major (Dr.) Manmeet Kaur Sodhi, Navyug Kanya Mahavidyalaya, Lucknow, Ms. Anuradha Gupta from Prithvi Innovation and Smt. Swati Sharma, CSIR-Jigyasa led interactive group activities on Mission LiFE of Govt. of India to encourage individual actions for sustainability on seven themes of Mission Life. Theme based group activity including an individual Team mentor for each theme like i) Energy Saved -Ms. Maria Nassem ii) Water Saved- Mr. Sampurna Nand, iii) Single Use Plastic Reduced-Ms. Ekta Gupta, v) Sustainable Food System Adopted - Ms. Anita Gupta iv) Waste Reduced (Swachhata Actions)- Ms. Preeti Umrao and Aditi Roy, vi) Healthy Lifestyles Adopted- Ms. Priya Dubey, vii) E-Waste Reduced- Ms. Swati Verma. These team leaders enlightened the participant about the Mission Life related themes, discuss their importance and share the knowledge of action plans of themes to the participants.





In a next session of the environment day celebration a Panel Discussion Session was hosted by Dr. Ambrina Khan, Integral University and Dr. Pankaj Kumar Srivastava Co-ordinator EIACP-NBRI, with eminent experts Dr. Ajit Kumar Shasany, Director CSIR-NBRI, Shri D.K. Soni, Regional Director, Central Pollution Control Board, Shri Saurabh Lall, CEO Model Gaon, Dr. Monawar Alam Khalid, Professor & Ex. Head, Department of Environmental Science Integral University, Mrs. Anuradha Gupta, Founder Prithivi made deliberations on policy actions vis-à-vis R&D interventions for mitigating climate change and land degradation. Restoration of degraded land and combating desertification were discussed in detail with the scope of individual actions.





As a result of group-based discussion activity on Mission Life theme participants had given their action point to achieve sustainable lifestyle such as i) Try to keep the car windows closed or if need be, only slightly open. Opening the windows at higher speeds can increase fuel consumption by as much as 20%. This is because as the air enters the car it generates a drag and increases fuel consumption. ii) Do not waste water running while brushing your teeth, shaving, or washing dishes. iii) Discourage polyester, nylon, and acrylic-based clothes instead promote the use of natural fiber-based (cotton, silk, linen, hemp), cloth material. iv) Promote food sharing platforms such as Roti-bank and food quota for poor and needy people in restaurants. v) Implement a pay-as-you program to encourage waste reduction. vi) Use biowaste as organic fertilizer. vii) Adopt a minimalist approach to electronics, only acquiring what is necessary and functional.





At the end of the event, participants also took a pledge for their commitment to Mission LiFE and ENVIS-RP-NBRI team members along with members of Prithivi Innovations and Awadh Forest Divion provided them with plant saplings of Rose (*Rosa* sp.), Guava (*Psidium guajava* L.), Tichoma sp. Neem (*Azadirachta indica*), Gulmohar etc. under the "Vriksh Parigrah (वृक्ष परिग्रह)" initiative, symbolizing their duty to nurture the environment.





Overall, 127 participants from 12 different institutions degree colleges, universities, NGOs and GlaxoSmithKline Pharmaceuticals actively participated in the event and was awarded with a participation certificate.



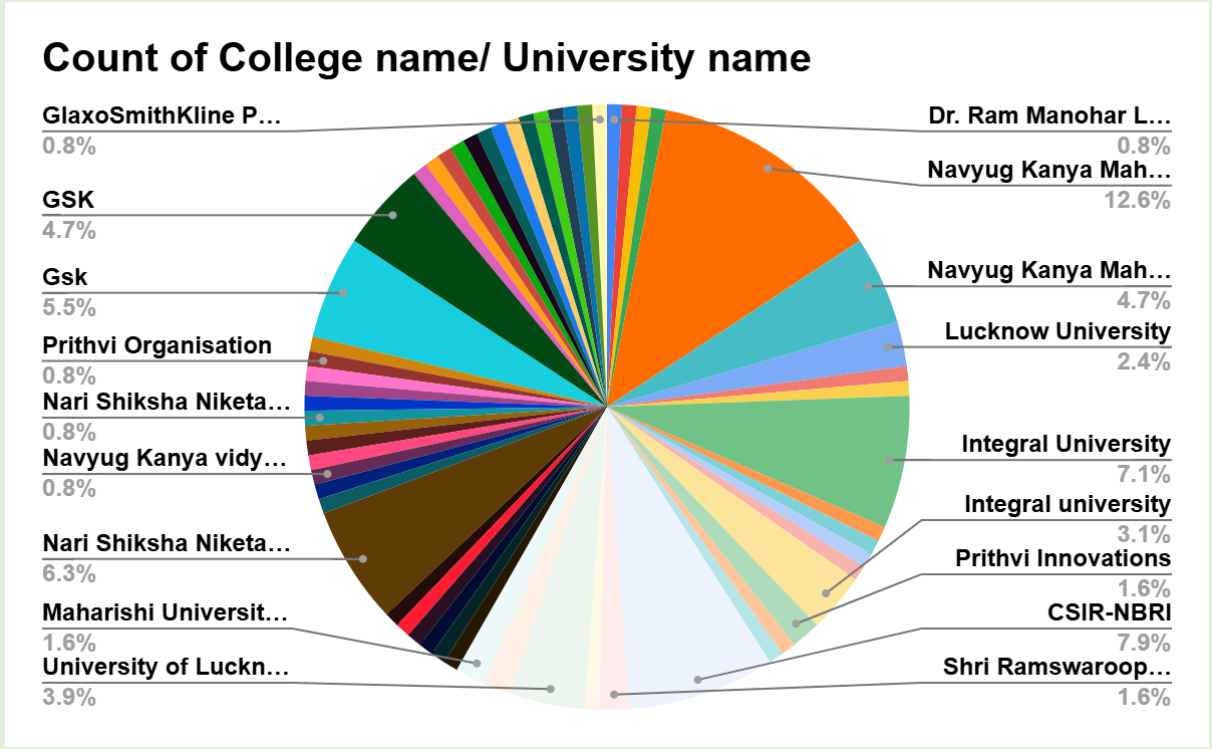
CSIR-NATIONAL BOTANICAL RESEARCH INSTITUTE
 RANA PRATAP MARG, LUCKNOW

WORLD ENVIRONMENT DAY 5th JUNE 2024
 Theme: Land Restoration, Desertification and Drought Resilience

Certificate

This certificate is presented to
 of.....
 who participated in the **World Environment Day** event celebrated on the theme
 “*Land Restoration, Desertification and Drought Resilience*” by NBRI-EIACP
 Programme Centre at CSIR-NBRI on 5th June 2024.

Dr. Ajit Kumar Shasany
 Director, CSIR-NBRI



World Environment Day Flyer



ENVIRONMENTAL INFORMATION, AWARENESS, CAPACITY BUILDING & LIVELIHOOD PROGRAMME CENTRE (EIACP-PC)
CSIR – NATIONAL BOTANICAL RESEARCH INSTITUTE (NBRI)
RANA PRATAP MARG, LUCKNOW, INDIA



World Environment Day

June 5th 2024



Time: 7:15 to 9:30 hrs.

THEME: LAND RESTORATION, DESERTIFICATION & DROUGHT RESILIENCE



Scan QR code for Registration

ACTIVITIES ❖ Group activities based on Mission LiFE Themes
❖ Panel Discussion on Current Environmental Issues



Land Restoration



Desertification



Drought Resilience

#GenerationRestoration
COLLABORATORS

- ✓ Integral University
- ✓ CSIR Jigyasa
- ✓ Navyug Kanya Mahavidyalaya
- ✓ Prithvi Innovations

NBRI-EIACP Programme Centre on Plants and Pollution <https://nbrienvs.nic.in/>

World Environment Day Programme Schedule



CSIR-National Botanical Research Institute
Lucknow

&

Environment Information, Awareness, Capacity
Building and Livelihood Programme (EIACP-PC)

Jointly Celebrate

“World Environment Day 2024”

Theme: Land Restoration, Desertification, and Drought Resilience

PROGRAMME SCHEDULE

07:30 AM-08:15 AM	Mission Life Related activities Dr Anju Patel, CSIR-NBRI Major Dr. Manmeet Kaur Sodhi, Navyug Kanya Mahavidyalaya Mrs. Anuradha Prithvi Innovations Smt. Swati Sharma, CSIR-Jigyasa
08:15 AM-09:15 AM	Panel Discussion Dr. Ambrina, Integral University
09:15 AM-09:25 AM	Certificate Distribution & Mission LiFE Pledge Dr. A. K. Shasany, Director, CSIR-NBRI
09:25 AM-09:30 AM	Vote of Thanks EIACP-NBRI National Anthem High Tea

Venue: Lotus Auditorium
KN Kaul Block, CSIR-NBRI
Lucknow

NBRI-EIACP Programme Centre on Plants and Pollution
<https://nbrienvs.nic.in/>

Get Involved

WORLD ENVIRONMENT DAY EVENTS AND ACTIVITIES

REGISTER YOUR EVENT OR ACTIVITY AND SHARE IT WITH THE WORLD

Browse the map to see the actions taken near you.

UNEP is not in a position to verify the accuracy of the information provided about events for World Environment Day. Kindly independently confirm details before making any arrangements based on this map.

EVENTS AND ACTIONS AROUND THE WORLD

Total number of submissions

3,476

[Disclaimer](#)

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय के एनबीआरआई-ईआईएसीपी कार्यक्रम केंद्र ने बड़े पैमाने पर विश्व पर्यावरण दिवस मनाया

NBRI-EIACP Programme Centre, Ministry of Environment, Forest and Climate Change celebrates World Environment Day on a grand scale

By Prem Kumar Jun 6, 2024, 07:49 IST



उत्तर प्रदेश डेस्क लखनऊ (आर एल पांडेय). राष्ट्रीय वनस्पति अनुसंधान संस्थान (एनबीआरआई) - सीएसआईआर-एनबीआरआई में पर्यावरण सूचना, जागरूकता, क्षमता निर्माण और आजीविका कार्यक्रम केंद्र (ईआईएसीपी) ने 5 जून 2024 को एनबीआरआई, लखनऊ में सीएसआईआर-जिज्ञासा, एनसीसी नवयुग कन्या महाविद्यालय, इंटीग्रल यूनिवर्सिटी और पृथ्वी इनोवेशन के सहयोग से विश्व पर्यावरण दिवस 2024 समारोह का आयोजन किया।

"भूमि बहाली, मरुस्थलीकरण और सूखे से निपटने की क्षमता" की वैश्विक थीम पर, कार्यक्रम की गतिविधियाँ मुख्य रूप से भूमि संसाधनों की सुरक्षा और बहाली के महत्व पर केंद्रित थीं। कार्यक्रम केंद्र की वैज्ञानिक और सह-समन्वयक डॉ. अंजू पटेल, मेजर (डॉ.) मनमीत कौर सोढ़ी, नवयुग कन्या महाविद्यालय, लखनऊ और पृथ्वी इनोवेशन की सुश्री अनुराधा गुप्ता ने सात विषयों पर स्थिरता के लिए व्यक्तिगत कार्यों को प्रोत्साहित करने के लिए भारत सरकार के मिशन लाइफ पर इंटरैक्टिव समूह गतिविधियों का नेतृत्व किया।

प्रख्यात विशेषज्ञों के साथ एक पैनल चर्चा में सीएसआईआर-एनबीआरआई के निदेशक डॉ. ए. के. शासनी, सीपीसीबी के क्षेत्रीय निदेशक श्री डी. के. सोनी, इंटीग्रल यूनिवर्सिटी के डीन डॉ. एम.ए. खालिद, पृथ्वी इनोवेशन की सुश्री अनुराधा गुप्ता ने जलवायु परिवर्तन और भूमि क्षरण को कम करने के लिए नीतिगत कार्रवाई बनाम अनुसंधान एवं विकास हस्तक्षेप पर विचार-विमर्श किया। क्षरित भूमि की बहाली और मरुस्थलीकरण से निपटने पर व्यक्तिगत कार्यों के दायरे के साथ विस्तार से चर्चा की गई। प्रतिभागियों ने मिशन लाइफ के प्रति अपनी प्रतिबद्धता के लिए शपथ भी ली और "वृक्ष परिग्रह" पहल के तहत उन्हें पौधे दिए, जो पर्यावरण को पोषित करने के उनके कर्तव्य का प्रतीक है।

इस कार्यक्रम में 12 विभिन्न संस्थानों, डिग्री कॉलेजों, विश्वविद्यालयों, गैर सरकारी संगठनों और ग्लैक्सोस्मिथक्लाइन फार्मास्यूटिकल्स के लगभग 100 प्रतिभागियों ने सक्रिय रूप से भाग लिया।



Land restoration



Globally, 25% of total land area has been degraded (UNDP-GEF)

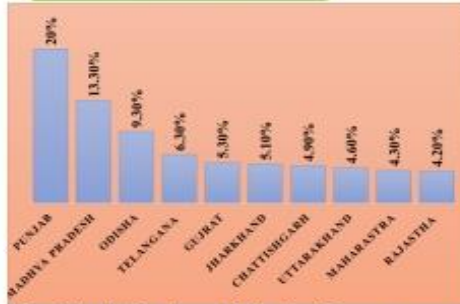
97.85 mha* (29.77% of India's total geographical area) is under land degradation (*million hectare SAC 2021)

Land restoration is the process of halting degradation or rehabilitating degraded land

Causes

Land Restoration measures

Deforestation



% of depleting forest in India (Source: India Today August, 2023)



Land degradation-deterioration or loss of productive capacity of the soil

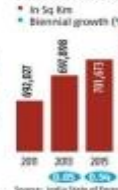
Reforestation

Afforestation

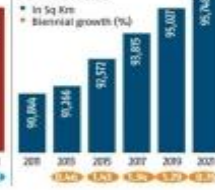
Soil Conservation



FOREST COVER



TREE COVER



Source: India State of Forest Report, 2021

Over-population



3.2 billion people are affected by land degradation globally (UNDDR)

Unsustainable agriculture practices

24 billion of fertile soil was being lost per year (UNCCD)



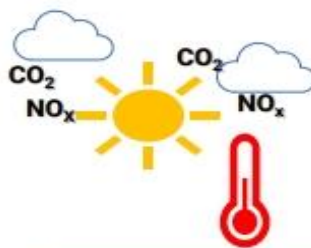
Overgrazing



Around 15% of the Amazon forest has been replaced and around 80% of the deforested areas have been covered by pastures (FAO)

Effects

Global Warming



Desertification



Biological diversity loss



Government initiative for Land restoration

- National Afforestation Program (2000-01)
- National Mission for Green India (2014)
- Sustainable Land and Ecosystem Management Program
- India has committed to restore 26 mha of degraded land by 2030 (UNCCD-COP14)

Success of Land restoration

Moirangthem Loiya, Manipur man has single-handedly replanted a 300-acre forest and save over 250 species of plants in 17 years.

The green cover in the state of Bihar has increased from 9.9-14.75% (2019-2021) with a total of 381.008 million plantation since 2012-2013 through Jal-Jeevan-Hariyali-Mission

Visualisation of Earth Observation Data and Archival System (VEDAS) by Space Application Centre, ISRO India: Desertification Status Mapping (DSM) Atlas

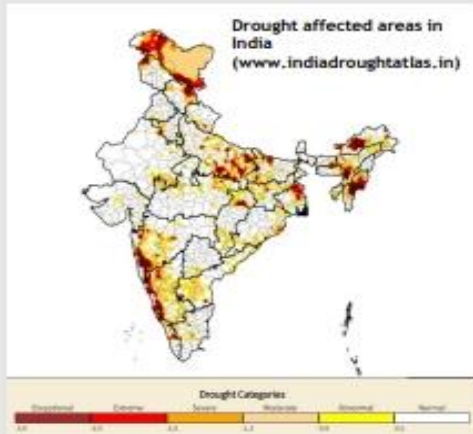
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Drought resilience



Drought is a prolonged dry period in the natural climate cycle that can occur anywhere in the world.



Effects of drought stress

Agriculture

- Decrease crop productivity
- Threaten food security
- Economic loss

Human

- Malnutrition
- Dehydration and related disease
- Mass migration

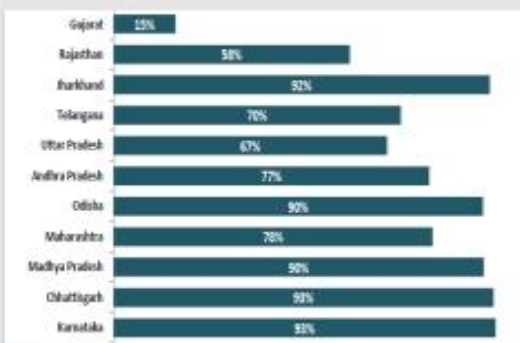
Livestock

- Lack of drinking water
- Increasing price of fodder
- Economic loss

Drought resilience

Drought resilience is the ability to anticipate, prepare for, and adapt to the anticipated consequences of drought conditions, particularly long-term or extreme drought

State wise drought-affected areas in India



Government of India's initiative for Drought management



Major causes of drought



Drought resilience strategies

- Interlinking of national water resources
- Use of advanced agriculture and irrigation patterns
- Accumulation of rainwater and improve rain harvesting infrastructure
- Prevent deforestation and land degradation
- Use of Drought resistant Crops

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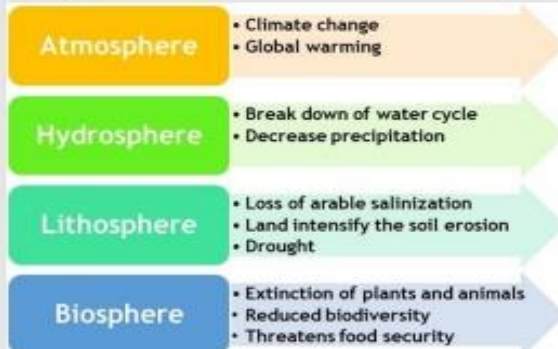


Desertification

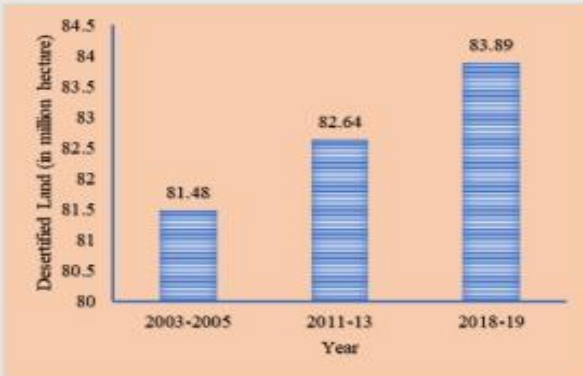


Desertification is land degradation within dry land regions (arid, semi arid and dry sub humid regions)(UNCED 1992)

Impact of desertification



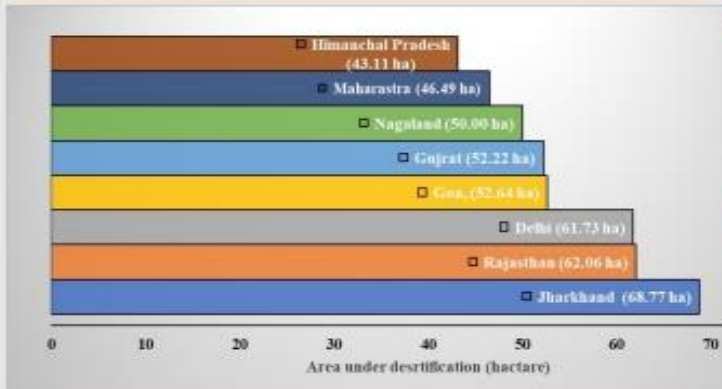
Desertification in India (SAC 2021)



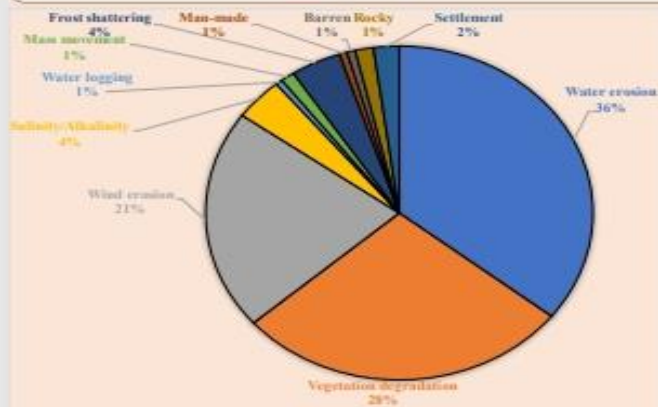
Combating desertification

- United Nations convention to combat desertification (UNCCD)
- National Action Programme to combat desertification since 2001 by MoEF&CC.
- Desert Development Program (DDP) control desertification through rejuvenation of natural resource base of the identified desert areas of India by Dept of Land Resources, MoRD, Gol.
- (Central Arid Zone Research Institute (CAZRI), Jodhpur, has developed technology for sand dunes stabilization through micro-wind breaks and further revegetation of dune by suitable grasses/ creepers/ trees or shrubs to combat desertification)

State-wise status of desertification in India (SAC 2021)



Major reasons for desertification in India (SAC 2021)



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