



# DR. BHIMRAO AMBEDKAR UNIVERSITY, AGRA

(Formerly Agra University, Agra)

A+ Accredited by NAAC

Report on

## Sustainable Development Goal 15



### SDG 15 LIFE ON LAND

Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

## SDG 15 Life on Land

### 15.1 Research on Land Ecosystem

Dr. Bhimrao Ambedkar University, Agra has undertaken and contributed to a wide range of research studies related to land ecosystems, soil health, ecological restoration, biodiversity, plant conservation, and environmental sustainability, reflecting its commitment to the objectives of Sustainable Development Goal 15 – Life on Land. The research documented by the University covers important areas such as the chemical characterization and health risks associated with soil and airborne pollutants in the semiarid region of Agra, management of plant-parasitic nematodes, phycoremediation of contaminated soils, trace-element bioavailability and risk assessment in soil, and the physiological responses of plants to contaminated soils.

**15.1.1 Life on Land : Cite Score** The average CiteScore of these journals is **13.39** indicates the visibility and citation impact of research related to biodiversity conservation, soil health, land restoration, pollution remediation, and sustainable agriculture. Publications in higher-CiteScore journals demonstrate wider dissemination and recognition of research addressing terrestrial ecosystem challenges. Overall, CiteScore provides a quantitative measure supporting the academic impact of the institution's contribution to SDG-15: Life on Land..

**15.1.2: Life on Land FWCI-** The FWCI of research publications related to SDG-15: Life on Land is 0.81 indicates the citation impact of these studies compared with similar publications worldwide. An FWCI value above 1.0 indicates that the publications received more citations than the global average in their respective fields. The research on biodiversity, soil health, land restoration, phytoremediation, and sustainable agriculture demonstrates the institution's contribution to internationally relevant research on terrestrial ecosystems.

### 15.1.3 Life on Land: Publication-

The university publishes 28 papers on land Sdg goal-15 . Research has also addressed eco-restoration of mine land, sustainable soil and nutrient management, the remediation of contaminated environments, and the effects of industrial pollutants on crops. Studies on medicinal plants, genetic diversity, endangered plant species, plant regeneration, and the toxicity of heavy metals further demonstrate the University's contribution to understanding and conserving terrestrial ecosystems. Collectively, these research initiatives demonstrate that Dr. Bhimrao Ambedkar University, Agra actively contributes to scientific research aimed at protecting soil and plant resources, restoring degraded land, conserving biodiversity, and promoting sustainable management of terrestrial ecosystems.

| S No. | Year | Title                                                                                                                                                                           | Authors                                                                                                             | Journal                                                                            | Citation | DOI                                |
|-------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------|------------------------------------|
| 1     | 2004 | <i>Impact of Air Pollution on Floral Morphology of Cassia siamea Lamk.</i>                                                                                                      | <i>Chauhan S.V.S.;<br/>Chaurasia B.;<br/>Rana A.</i>                                                                | <i>Journal of Environmental Biology</i>                                            | 24       | Not Available                      |
| 2     | 2018 | <i>Chemical Characterization and Health Risk Assessment of Soil and Airborne Particulates Metals and Metalloids in Populated Semiarid Region, Agra, India</i>                   | <i>Parveen R.;<br/>Saini R.;<br/>Taneja A.</i>                                                                      | <i>Environmental Geochemistry and Health</i>                                       | 31       | 10.1007/s10653-016-9822-4          |
| 3     | 2025 | <i>Heavy Metal Pollution in River Ulhas, Maharashtra, India: Unraveling Contamination Dynamics Through Pollution Indices, Multivariate Analysis, and Health Risk Assessment</i> | <i>Botle A.;<br/>Salgaonkar S.;<br/>Tiware R.;<br/>Barabde G.</i>                                                   | <i>International Journal of Environmental Research</i>                             | 7        | 10.1007/s41742-025-00754-2         |
| 4     | 2014 | <i>Study of Noise and Atmospheric Pollution During the Festival of Lights (Deepawali) in the North Central Part of India—A Case Study</i>                                       | <i>Masih A.;<br/>Verma P.; Lal J.K.; Taneja A.</i>                                                                  | <i>Advanced Science Letters</i>                                                    | 3        | 10.1166/asl.2014.5509              |
| 5     | 2023 | <i>Predicting the Effect on Land Values After Introducing High-Speed Rail</i>                                                                                                   | <i>Srivastava A.;<br/>Lavania S.;<br/>Mohapatra S.</i>                                                              | <i>Energy, Environment, and Sustainability</i>                                     | 14       | 10.1007/978-981-99-2150-8_8        |
| 6     | 2023 | <i>Native Trees on Abandoned Mine Land: From Environmental Remediation to Bioeconomy</i>                                                                                        | <i>P. J. C. Favas,<br/>J. Pratas, R. Chaturvedi, M. S. Paul, M. N. V. Prasad</i>                                    | <i>Bioremediation and Bioeconomy: A Circular Economy Approach (Second Edition)</i> | 7        | 10.1016/B978-0-443-16120-9.00009-1 |
| 7     | 2025 | <i>Medicinal Plants Potential as Anti-Mycobacterial and Mechanisms Behind Their Active Metabolites</i>                                                                          | <i>U. Goyal, M. Kumar, D. Dayal, K. K. Chaubey, D. Sharma, A. K. Sanghi, N. Jha, S. Thapliyal, S. Sharma, K. D.</i> | <i>Plant Science Today</i>                                                         | 33       | 10.14719/pst.4991                  |

|    |      |                                                                                                                                                                |                                                                                                                                           |                                                                                                                                           |    |                                                                                                   |
|----|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------|
|    |      |                                                                                                                                                                | Rawat, S. Y.<br>Mukartal, N.<br>Kumar, A. N.<br>Yadav, A. K.<br>Pal                                                                       |                                                                                                                                           |    |                                                                                                   |
| 8  | 2010 | <i>Anti-Tuberculosis Activity of Selected Medicinal Plants Against Multi-Drug Resistant Mycobacterium tuberculosis Isolates</i>                                | R. Gupta, B. Thakur, P. Singh, H. B. Singh, V. D. Sharma, V. M. Katoch, S. V. S. Chauhan                                                  | <i>Indian Journal of Medical Research</i>                                                                                                 | 31 | <a href="https://pubmed.ncbi.nlm.nih.gov/20571171/">https://pubmed.ncbi.nlm.nih.gov/20571171/</a> |
| 10 | 2020 | <i>5. Plant-Parasitic Nematode Management by Phytobiomes and Application of Fly Ash</i>                                                                        | G. Ahmad, M. Haris, A. Shakeel, A. A. Khan, A. Ali                                                                                        | <i>Phytobiomes: Current Insights and Future Vistas</i>                                                                                    | 3  | 10.1007/978-981-15-3151-4_14                                                                      |
| 11 | 2019 | <i>Phycoremediation of Industrial Effluents Contaminated Soils</i>                                                                                             | P. Solanki, M. L. Dotaniya, N. Khanna, S. Udayakumar, C. K. Dotaniya, S. S. Meena, M. Narayan, R. K. Srivastava                           | <i>New and Future Developments in Microbial Biotechnology and Bioengineering: Microbes in Soil, Crop and Environmental Sustainability</i> | 13 | 10.1016/B978-0-12-818258-1.00016-9                                                                |
| 12 | 2023 | <i>Dynamics of Trace Element Bioavailability in Soil: Agronomic Enhancement and Risk Assessment</i>                                                            | R. D'Souza, P. J. C. Favas, M. Varun, M. S. Paul                                                                                          | <i>Medical Geology: En route to One Health</i>                                                                                            | 3  | 10.1002/9781119867371.ch13                                                                        |
| 13 | 2021 | <i>8. Integrated Nutrient Management Improves Soil Organic Matter and Agronomic Sustainability of Semiarid Rainfed Inceptisols of the Indo-Gangetic Plains</i> | C. Srinivasarao, S. P. Singh, S. Kundu, V. Abrol, R. Lal, P. C. Abhilash, G. R. Chary, P. B. Thakur, J. V. N. S. Prasad, B. Venkateswarlu | <i>Journal of Plant Nutrition and Soil Science</i>                                                                                        | 33 | 10.1002/jpln.202000312                                                                            |
| 14 | 2023 | <i>Physiological Responses and Adaptations of the Halophyte Atriplexhalimus to Soil Contaminated with Cd, Ni, and NaCl</i>                                     | Manoj S. Paul                                                                                                                             | <i>Soil Systems (MDPI)</i>                                                                                                                | 13 | Not Available                                                                                     |

|    |      |                                                                                                                                                                                 |                                                                |                                                                         |    |                                                                                                                                                                                   |
|----|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15 | 2023 | <i>Dynamics of Trace Element Bioavailability in Soil: Agronomic Enhancement and Risk Assessment</i>                                                                             | <i>D'Souza R., Favas P.J.C., Varun M., Paul M.S.</i>           | <i>Medical Geology: En route to One Health</i>                          | 9  | Not Available                                                                                                                                                                     |
| 16 | 2023 | <i>Eco-Restoration of Mine Land</i>                                                                                                                                             | <i>Pandey V.C., Ahirwal J., Roychowdhury R., Chaturvedi R.</i> | <i>Eco-Restoration of Mine Land</i>                                     |    | DOI:10.1002/9781119872283                                                                                                                                                         |
| 17 | 2023 | <i>Feasibility of Conjunctive Use of Canal and Alkali Groundwater for Toria–Chicory Crop Rotation in Western Uttar Pradesh, India</i>                                           | <i>Chauhan S.K.</i>                                            | <i>Irrigation and Drainage</i>                                          |    | <a href="https://doi.org/10.1002/ird.2791">https://doi.org/10.1002/ird.2791</a>                                                                                                   |
| 18 | 2023 | <i>Pharmacological and Phytochemicals Potential of CuscutareflexaRoxb. As Parasite and Its Some Host Plants: A Review</i>                                                       | <i>Rajneesh K. Agnihotri</i>                                   | <i>International Journal of Pharmaceutical Research and Development</i> |    | <a href="https://doi.org/10.33545/26646862.2023.v5.i1a.30">10.33545/26646862.2023.v5.i1a.30</a>                                                                                   |
| 19 | 2022 | <i>Effect of Metal Resistant PGPB on the Metal Uptake, Antioxidative Defence, Physiology and Growth of Atriplexlentiformis in the Soil Contaminated with Cadmium and Nickel</i> | <i>Manoj S. Paul</i>                                           | <i>Journal of Plant Growth Regulation</i>                               | 21 | <a href="https://doi.org/10.1007/s00344-022-10853-5">I:10.1007/s00344-022-10853-5</a>                                                                                             |
| 20 | 2022 | <i>Herbicidal Effects of Chenopodium murale and Coronopusdidymus Residues Against Germination and Early Growth of Hordeum vulgare</i>                                           | <i>Rajneesh K. Agnihotri</i>                                   | <i>Scientific Horizons</i>                                              | 31 | <a href="https://doi.org/10.48077/sci-hor.25(3).2022.36-41">:10.48077/sci-hor.25(3).2022.36-41</a>                                                                                |
| 21 | 2022 | <i>Parijat (Nyctanthes arbor-tristis L.): A Holy Tree of India with Special Reference to Medicinal Importance</i>                                                               | <i>Rajneesh K. Agnihotri</i>                                   | <i>Academia Journal of Medicinal Plants</i>                             |    | <a href="https://new.academiapublishing.org/journals/ajmp/pdf/2022/Apr/Singh%20et%20al.pdf">https://new.academiapublishing.org/journals/ajmp/pdf/2022/Apr/Singh%20et%20al.pdf</a> |
| 22 | 2022 | <i>Remediation of Cadmium from the Contaminated Aqueous Media by Using Dead Biomass of Bacillus subtilis</i>                                                                    | <i>Rajneesh K. Agnihotri</i>                                   | <i>International Journal of Advance Research (IJAR)</i>                 | 4  | <a href="https://doi.org/10.21474/IJAR01/14715">:10.21474/IJAR01/14715</a>                                                                                                        |

|    |      |                                                                                                                                   |                                           |                                                |    |                                                                                                |
|----|------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------|----|------------------------------------------------------------------------------------------------|
| 23 | 2022 | <i>Simple Sequence Repeats Marker Based Detection of Genetic Diversity of Indian Bean (Dolichos lablab L.)</i>                    | <i>Singh V., Kudesia R., Bhadauria S.</i> | <i>Legume Research</i>                         | 2  | <a href="https://doi.org/10.18805/LR-4617">10.18805/LR-4617</a>                                |
| 24 | 2021 | <i>Morphological Variation Among Four Species Belonging to Genus Sida L. (Family Malvaceae) from Western Uttar Pradesh, India</i> | <i>Rajneesh K. Agnihotri</i>              | <i>Egyptian Journal of Botany</i>              | 2  | DOI: <a href="https://doi.org/10.21608/ejbo.2021.68030.1653">10.21608/ejbo.2021.68030.1653</a> |
| 25 | 2021 | <i>Effect of Industrial Effluent on Wheat Crop</i>                                                                                | <i>Rajneesh K. Agnihotri</i>              | <i>Agricultural Research Journal</i>           | 2  | : <a href="https://doi.org/10.5958/2395146X.2021.00006.5">10.5958/2395146X.2021.00006.5</a>    |
| 26 | 2020 | <i>Biochemical and Physiological Response of Maize (Zea mays) to Chromium and Lead Induced Stress</i>                             | <i>R. K. Agnihotri et al.</i>             | <i>Annals of Plant and Soil Research</i>       | 14 | : <a href="https://doi.org/10.55730/1300-011X.3185">10.55730/1300-011X.3185</a>                |
| 27 | 2019 | <i>In Vitro Regeneration, Callus Induction and Rhizogenesis in Ficuskrishnae: A Rare Endangered Plant</i>                         | <i>Rajneesh K. Agnihotri et al.</i>       | <i>Indian Journal of Biotechnology</i>         |    | Not Available                                                                                  |
| 28 | 2019 | <i>Toxicity of Cr and Pb During Vegetative Growth of Sesamum indicum L.</i>                                                       | <i>Rajneesh K. Agnihotri et al.</i>       | <i>The Journal of Indian Botanical Society</i> | 8  | : <a href="https://doi.org/10.5958/2455-7218.2019.00027.5">10.5958/2455-7218.2019.00027.5</a>  |

## 15.2 Supporting Land ecosystems through Education

Dr. Bhimrao Ambedkar University, Agra supports the conservation and sustainable management of land ecosystems through education, awareness, and active participation of its students, faculty, staff, and other stakeholders. The University's Sustainable Land Use, Conservation and Ecological Restoration Policy promotes awareness programmes, plantation drives, environmental campaigns, and conservation initiatives that help develop understanding and responsible practices related to land and biodiversity conservation. The policy also encourages climate-resilient landscaping, afforestation, ecological restoration, protection of green spaces, and sustainable resource management. Furthermore, the University's Policy for Monitoring and Conservation of IUCN and Protected Species promotes education and capacity building through research, documentation, workshops, field activities, and biodiversity awareness programmes. Students and other stakeholders are encouraged to participate in these initiatives, thereby developing environmental awareness and practical knowledge about biodiversity and ecosystem conservation. Through these educational and participatory measures, the University contributes to creating an environmentally conscious community and

supports the long-term protection and sustainable management of terrestrial ecosystems in alignment with SDG 15 – Life on Land.

#### 15.2.1 Event about sustainable use of land –

**Event-** On the occasion of World Environment Day and International Yoga Day, the School of Life Sciences, Dr. Bhimrao Ambedkar University, Agra, organized an exhibition titled “Importance of Nature: An Enlightening Exhibition” on 5th June 2025. M.Sc. Zoology students actively participated by displaying various medicinal plants and explaining their medicinal value, uses, and significance in maintaining health, biodiversity, and environmental balance. The event promoted environmental awareness, sustainable living, and scientific understanding of natural resources among students and visitors.



*Pic- Group Photograph of Faculty and Students at the Exhibition*

# पर्यावरण की रक्षा के लिए उठाने होंगे कड़े कदम

आगरा। डॉ. भीमराव अंबेडकर विश्वविद्यालय में विश्व पर्यावरण दिवस पर कार्यक्रम का आयोजन किया गया। स्कूल ऑफ लाइफ साइंस में प्रदर्शनी प्रकृति का महत्व का आयोजन किया गया।

शुभारंभ कुलपति प्रो. आशुरानी और डीन स्टूडेंट वेलफेयर प्रो. बीएस शर्मा ने किया। उन्होंने कहा कि हमें पौधों की महत्ता को समझना होगा। विश्वविद्यालय के छात्रों एवं शोधार्थियों ने पोस्टर, खाद्य पदार्थ, इत्र, अचार, पापड़, चटनी एवं औषधि वस्तुओं की प्रदर्शनी लगाई। प्रो. पीके सिंह, प्रो. अनिल गुप्ता, प्रो. एसके जैन, प्रो. बिन्दु



स्कूल ऑफ लाइफ साइंस में प्रदर्शनी देखती कुलपति प्रो. आशुरानी।

शेखर शर्मा, डॉ. नीलम यादव, डॉ. रीता निगम, डॉ. सुरभि महाजन, डॉ. मोनिका अस्थाना, डॉ. उदिता तिवारी, डॉ. अंकुर, डॉ. पूति, डॉ. निभा जादौन, डॉ. नीलू, डॉ. अनामिका, डॉ. प्रमोद, डॉ. अंकिता, डॉ. अजीत, डॉ. कीर्ति, आस्था, दिव्या, हाउजा, योगेन्द्र प्रताप सिंह, डॉ. रुचिरा प्रसाद रहीं।

## इलेक्ट्रिक वाहन का अधिक प्रयोग करें

आगरा कॉलेज एनसीसी आर्मी विंग की ओर से पोषारोपण किया गया। पर्यावरण को शुद्ध रखने के लिए जन जागरूकता अभियान चलाया। कंपनी कमांडर कैप्टन अमित अग्रवाल ने कहा कि हम अपने दैनिक जीवन में छोटी-छोटी आदतों में सुधार करके पर्यावरण का संरक्षण कर सकते हैं। इलेक्ट्रिक वाहन का प्रयोग करें। घर में बिजली की भी बचत करें। लवकुश, भारतेन्दु, आदित्य, कीर्ति, समायरा, अनुश्री, सोरभ वर्मा, प्रतीक, हृदय, तमन्ना, यामिनी रहीं।

Pic- News Clipping Of the event

The “Ek Ped MaaKe Naam” plantation activity was organized on 09/07/2025 in the premises of Dr. Bhimrao Ambedkar University, Swami Vivekanand Parisar, Khandari, Agra by the Department of Biotechnology, School of Life Sciences. The activity was conducted to promote environmental awareness, greenery, and sustainability. During this tree plantation drive, various plants were planted by staff members in the department premises. The event aimed to encourage ecological conservation and create awareness regarding the environmental and medicinal importance of plants among students and staff.

## Ek Ped MaaKe Naam – RashtriyaSewaYojna

The “Ek Ped MaaKe Naam” plantation campaign was organized on 09 July 2025 under RashtriyaSewaYojna by Lalit Kala Sansthan, Dr. Bhimrao Ambedkar University, Agra. This nationwide tree plantation initiative aimed to honor mothers by planting saplings as a tribute while promoting environmental sustainability and increasing green cover on campus. The campaign also focused on spreading awareness among students regarding environmental protection, climate change mitigation, and social responsibility toward nature.



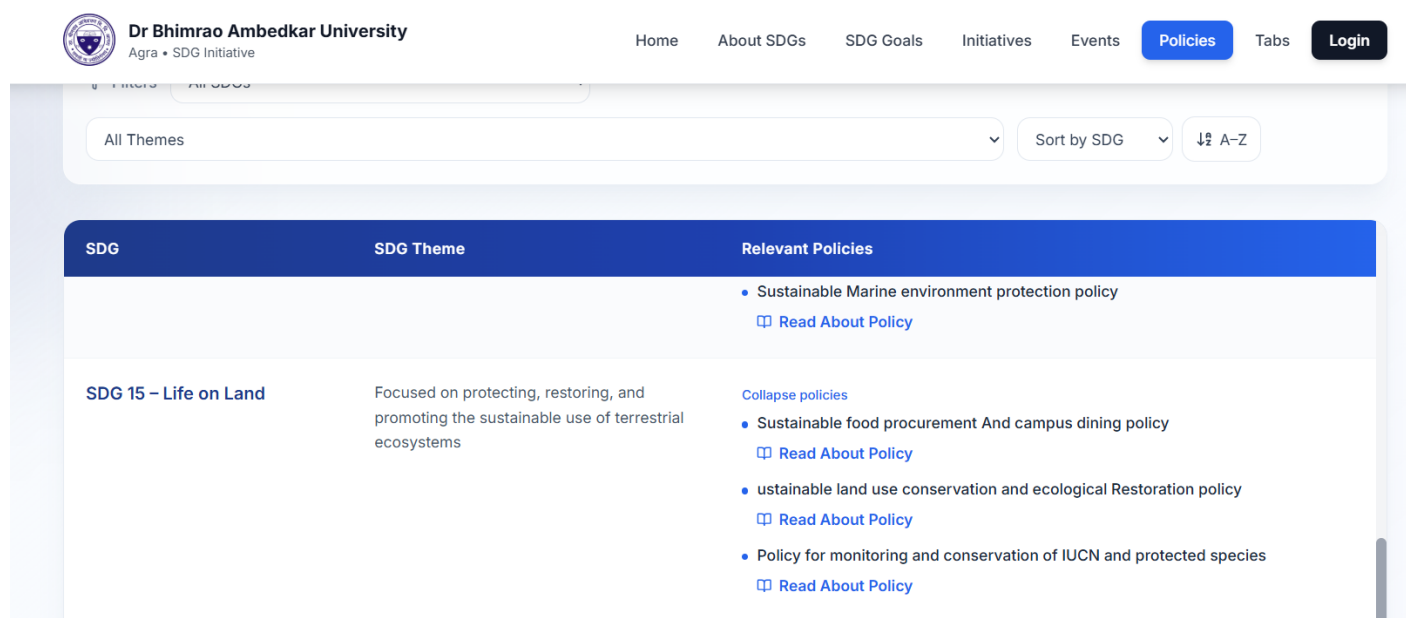
Source : <https://www.dbrausdg.in/events/6a12a0d908f8f684f0100e0b>

### 15.2.2 Sustainable farmed food on campus-

Dr. Bhimrao Ambedkar University, Agra has adopted a Sustainable Food Procurement and Campus Dining Policy to promote environmentally responsible, healthy, and sustainable food practices across the University. The policy applies to all campus dining facilities, hostels, cafeterias, food vendors, contractors, suppliers, and other stakeholders involved in food procurement and dining services. It aims to encourage the procurement of safe, nutritious, locally sourced, and sustainably produced food while reducing food waste and conserving natural resources.

Under this policy, the University promotes sustainable agricultural practices, healthy and hygienic campus dining, eco-friendly packaging, efficient use of resources, and responsible food waste management through segregation, composting, and awareness programmes. The implementation is monitored by the University Administration and Procurement Committee, with regular reviews to ensure compliance with food safety regulations and continuous improvement in sustainable campus dining practices.

Policy Link-<https://www.dbrausdg.in/policies>



The screenshot shows the website of Dr. Bhimrao Ambedkar University Agra - SDG Initiative. The navigation bar includes links for Home, About SDGs, SDG Goals, Initiatives, Events, Policies (highlighted), and Login. Below the navigation bar, there are filters for 'All Themes' and 'Sort by SDG' (set to A-Z). The main content area displays a table with three columns: SDG, SDG Theme, and Relevant Policies.

| SDG                   | SDG Theme                                                                                     | Relevant Policies                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                                                                                               | <ul style="list-style-type: none"> <li>Sustainable Marine environment protection policy</li> <li><a href="#">Read About Policy</a></li> </ul>                                                                                                                                                                                                                                                                                               |
| SDG 15 – Life on Land | Focused on protecting, restoring, and promoting the sustainable use of terrestrial ecosystems | <p><a href="#">Collapse policies</a></p> <ul style="list-style-type: none"> <li>Sustainable food procurement And campus dining policy</li> <li><a href="#">Read About Policy</a></li> <li>ustainable land use conservation and ecological Restoration policy</li> <li><a href="#">Read About Policy</a></li> <li>Policy for monitoring and conservation of IUCN and protected species</li> <li><a href="#">Read About Policy</a></li> </ul> |

*Source: SDG 15 policies*

### 15.2.4 Educational Program on ecosystem

On the occasion of World Environment Day, the Department of Environmental Studies, Dr. Bhimrao Ambedkar University, Agra, organized an Awareness Rally to promote environmental consciousness and encourage sustainable practices among students and the local community. The rally focused on spreading awareness regarding pollution control, tree plantation, plastic waste reduction, water conservation, and ecological balance. Students, faculty members, and staff actively participated by carrying placards, banners, and slogans such as “Save Environment, Save Life,” “Plant More Trees, Reduce Pollution,” and “Say No to Plastic.” The rally passed through nearby university areas, engaging local residents and encouraging eco-friendly habits and environmental responsibility. The program concluded with a pledge by all participants to actively contribute toward environmental conservation and sustainable living.



Source: <https://www.dbrausdg.in/events/6a12a49008f8f684f0100e13>

### 15.2.5 Sustainable management of land for agriculture

Dr. Bhimrao Ambedkar University, Agra has adopted a comprehensive **Sustainable Land Use, Conservation and Ecological Restoration Policy** to promote environmentally responsible management of its land resources in alignment with Sustainable Development Goal (SDG) 15 – *Life on Land*. The University implements this policy across all its campuses by integrating sustainable land-use planning, conserving green

spaces, protecting biodiversity, promoting afforestation and ecological restoration, and encouraging climate-resilient landscaping practices. The policy also emphasizes the use of eco-friendly infrastructure, organic manure, water-efficient irrigation, and rainwater harvesting wherever feasible. The University actively engages students, faculty, staff, and other stakeholders through plantation drives, awareness programmes, environmental campaigns, and conservation initiatives. The implementation and periodic monitoring of the policy are carried out by the University Administration along with the Estate, Engineering, and Horticulture Departments, ensuring effective compliance and continuous improvement in environmental sustainability across the campus.

#### 15.2.6 Sustainable management of land for tourism

##### **Biodiversity Educational Tour – Ranthambore National Park**

A Biodiversity Educational Tour to Ranthambore National Park was organized for M.Sc. Zoology students on 3rd April 2025 by Dr. Bhimrao Ambedkar University, Agra, to provide practical exposure to wildlife, biodiversity and ecological conservation. Students observed animal species, forest ecosystems and natural habitats while learning about wildlife conservation, biodiversity management and ecological balance through field-based study and observation. The activity enhanced scientific understanding and promoted environmental awareness among students.





Source- <https://www.dbrausdg.in/events/6a129dbe08f8f684f0100e07>

### 15.3 Supporting Land Ecosystems through Action

The university supports SDG 15.3 by implementing measures that protect, restore and sustainably manage land ecosystems within and around the campus. These activities include maintaining green spaces, increasing native vegetation, conserving soil and water resources, controlling erosion and promoting environmentally responsible land-use practices.

The university campus can serve as a practical demonstration site for land restoration and ecosystem management. Degraded or unused areas may be restored through the plantation of native trees, development of biodiversity gardens, establishment of grass-covered zones and improvement of soil quality through composting and the use of organic manure. Native plant species should be prioritised because they are better adapted to local climatic conditions and provide suitable habitats for birds, insects and other organisms

### 15.3.1 Sustainable Use, Conservation and Restoration of Land

Dr. Bhimrao Ambedkar University, Agra undertakes a range of initiatives for the sustainable use, conservation and restoration of land and natural resources. The University promotes plantation, green-campus development, sustainable agriculture, soil health, biodiversity conservation and environmental awareness through activities involving students, faculty and staff.

#### Organic Cultivation of Crops

The Department of Agriculture Sciences, Dr. Bhimrao Ambedkar University (DBRAU), Agra, has actively promoted Organic Cultivation of Crops at the Netaji Subhas Chandra Bose Campus as an important green campus initiative. The department encouraged eco-friendly farming practices using organic manure, biofertilizers, and sustainable crop management techniques. This initiative provided practical exposure to students about healthy and chemical-free agricultural production systems. Faculty members and students jointly participated in cultivating crops while promoting soil health, biodiversity, and environmental conservation. The activity reflected the department's commitment towards sustainable agriculture and the development of a greener and healthier campus environment.





### 15.3.2 Monitoring IUCN and Other Conservation Species

Dr. Bhimrao Ambedkar University, Agra has established a comprehensive **Policy for Monitoring and Conservation of IUCN and Protected Species** to strengthen biodiversity conservation and protect ecologically significant plant and animal species across its campus. Through this policy, the University systematically monitors and conserves IUCN-listed and legally protected species by conducting periodic biodiversity surveys, maintaining a Campus Biodiversity Register, protecting natural habitats, and minimizing ecological disturbances during campus planning and development. The University also promotes biodiversity conservation through research, documentation, awareness programmes, workshops, field activities, and collaborations with government agencies and recognized conservation organizations. Modern tools such as GPS mapping, GIS, digital documentation, and photography are encouraged to support effective monitoring and conservation planning. The policy is implemented and regularly monitored by the University Administration and concerned academic departments, ensuring active participation of students, faculty, staff, and other stakeholders in preserving biodiversity and promoting sustainable environmental stewardship.

Policy Link-<https://www.dbrausdg.in/policies>



All Themes

Sort by SDG

↓↑ A-Z

| SDG                   | SDG Theme                                                                                     | Relevant Policies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |                                                                                               | <ul style="list-style-type: none"> <li>Sustainable Marine environment protection policy</li> </ul> <a href="#">Read About Policy</a>                                                                                                                                                                                                                                                                                                                                                               |
| SDG 15 – Life on Land | Focused on protecting, restoring, and promoting the sustainable use of terrestrial ecosystems | <p><a href="#">Collapse policies</a></p> <ul style="list-style-type: none"> <li>Sustainable food procurement And campus dining policy</li> </ul> <a href="#">Read About Policy</a> <ul style="list-style-type: none"> <li>ustainable land use conservation and ecological Restoration policy</li> </ul> <a href="#">Read About Policy</a> <ul style="list-style-type: none"> <li>Policy for monitoring and conservation of IUCN and protected species</li> </ul> <a href="#">Read About Policy</a> |

Source: SDG 15 policies

### 15.3.3 local biodiversity included in planning and development

#### Green Campus Initiative – Botany

The Department of Botany, School of Life Sciences, Khandari Campus, Dr. Bhimrao Ambedkar University, Agra, undertook a Green Campus Initiative from July 2025 to February 2026 focused on plantation, biodiversity conservation, and botanical learning enhancement. M.Sc. Botany students developed designated plantation beds in Sur Udyan and the lawns of the School of Life Sciences for medicinal, aromatic, ornamental, and indigenous plant species. Plantation drives involved students and research scholars, including planting saplings of Palash (*Butea monosperma*), the state tree. Campus spaces were transformed into a living repository of medicinal and aromatic plants for practical learning and research. Plant labeling and QR coding were also undertaken to disseminate scientific information about plant species and enhance digital botanical learning. The project strengthened environmental awareness, biodiversity conservation, student responsibility, and sustainable green campus development.



## वनस्पति विज्ञान विभाग में पलाश वृक्षारोपणः पर्यावरण संरक्षण की ओर विद्यार्थियों का कदम

आगरा। डॉ. भीमराव आम्बेडकर विश्वविद्यालय, स्वाधीन विवेकानंद परिसर स्थित वनस्पति विज्ञान विभाग में आज नव प्रवेशित छात्र-छात्राओं द्वारा राजकीय वृक्ष पलाश/ढाक के 10 पौधों का सफलतापूर्वक रोपण किया गया। यह कार्यक्रम कुलपति प्रो. आशु रानी के मार्गदर्शन में पर्यावरणीय चेतना जागृत करने एवं विलुप्त होती पादप प्रजातियों के संरक्षण की दिशा में एक सरासरी पहल रही इस अवसर पर विभागाध्यक्ष एवं संकायाध्यक्ष प्रो. रजनीश अग्निहोत्री के निर्देशन में नवसंगत विद्यार्थियों ने पौधों का रोपण किया एवं उनकी देख-रेख की जिम्मेदारी भी स्वयं ली। वृक्षारोपण का उद्देश्य न केवल पौधों के प्रति भावनात्मक जुड़ाव बनाना था, बल्कि उन्हें संरक्षित कर भविष्य की पीढ़ियों के लिए एक हरित विरासत सौंपना भी था।

उल्लेखनीय है कि यह सभी पौधे प्रसिद्ध बाल रोग विशेषज्ञ डॉ. निखिल चतुर्वेदी द्वारा उनके पिताजी, प्रख्यात वनस्पतिशास्त्री स्व. डॉ. एस. एन. चतुर्वेदी की स्मृति में विभाग की प्रदान किए गए थे। यह कार्य न केवल



अद्भुतजल स्वस्व था, बल्कि वनस्पति विज्ञान में उनके योगदान को सम्मानित करने का भी एक प्रयास था इस कार्यक्रम में विभाग की प्राध्यापिका डॉ. पूर्ति चतुर्वेदी, शीलजा वर्मा, हवजा इमतिआज, सुवील कुमार, लक्ष्मण स्वस्व, शाहरुख सहित विभाग के परामर्शांक एवं शोध छात्र-छात्राएं भी सक्रिय रूप से उपस्थित रहे। सभी प्रतिभागियों ने वृक्षों की महत्ता को समझते हुए भविष्य में उनके संरक्षण का संकल्प लिया यह आयोजन विद्यार्थियों के लिए पर्यावरणीय जागरूकता का एक प्रेरणास्रोत बना, जिससे विश्वविद्यालय परिसर को अधिक हरित, स्वच्छ और समृद्ध बनाने की दिशा में प्रेरणा प्राप्त हुई।

## Prakriti Ka Mahatva – Plant and Ecological Awareness Exhibition

On 05 June 2025, the Department of Environmental Studies participated in an informative and awareness-oriented exhibition under the theme “Yoga for One Earth, One Health.” The exhibition, “Prakriti Ka Mahatva: EkGyanvardhakPradarshani,” highlighted the importance of plants in reducing environmental pollution and maintaining ecological balance. Students demonstrated how plants contribute to air

purification, absorption of harmful pollutants, reduction of carbon dioxide levels, biodiversity conservation and improvement of environmental health, while promoting the importance of planting and protecting trees for a sustainable future.



Source : <https://www.dbrausdg.in/events/6a12a5d2def8b2c7a4ad6eba>

#### 15.3.5 collaboration for shared land ecosystem

The University works with external organizations, agricultural experts, industry partners, community groups and conservation-related stakeholders to share responsibility for environmental sustainability, sustainable

agriculture and ecosystem conservation. These collaborations extend the University's environmental outreach beyond the campus and support knowledge dissemination and community participation.

### **DBRAU–Yara India Collaboration and Community Radio**

On 11 September 2025, a Memorandum of Understanding (MoU) was re-signed between Dr. Bhimrao Ambedkar University, Agra and Yara India with the objective of increasing awareness among farmers through Community Radio initiatives. A similar agreement had earlier been implemented during 2023–2024, during which successful outreach programmes and awareness activities were conducted through the University's Community Radio 90.4 "Agra Ki Awaz." The programmes provided farmers with information on modern agricultural practices, fertilizers and sustainable farming techniques. The renewed MoU aims to strengthen farmer awareness and knowledge dissemination through community radio-based agricultural communication programmes. Objectives include promoting awareness of modern agricultural practices and technologies, efficient fertiliser use and sustainable farming methods, strengthening collaboration with agricultural experts and industry partners, and supporting government initiatives aimed at agricultural productivity and farmer welfare.





विवि और यारा इंडिया के बीच किसानों में जागरूकता बढ़ाने के लिए हुआ एमओयू।

## किसानों को सही जानकारी देकर जागरूक करेगा विवि

### समझौता

**आगरा।** डॉ. भीमराव अम्बेडकर विश्वविद्यालय और यारा इंडिया के बीच किसानों की जागरूकता बढ़ाने के लिए समझौता ज्ञापन (एमओयू) हस्ताक्षरित हुआ। यह लगभग दो साल पहले किया गया एमओयू है।

यह पहल भारत सरकार के रसायन एवं उर्वरक मंत्रालय के मार्गदर्शन में चल रही है। वर्ष 2023 से 2024 तक भी यह अनुबंध हुआ था। बेहतर कार्यक्रम और अडोप्टरीव गतिविधियों के कारण विवि का रेडियो कार्यक्रम आगरा की आवाज 90.4 फ्रीक्स अक्टूबर 2025 में कृषि क्षेत्रों के समीक्षादनल तक पहुंचे था।

कुलसचिव प्रो. अश्विनी रानी ने बताया

कि एमओयू के तहत एक वर्ष तक 180 रेडियो एपिसोड प्रसारित होंगे। इनमें उर्वरकों का संतुलित उपयोग, फसल पोषण प्रबंधन, मिट्टी की सेहत, टिकाऊ और लाभकारी खेती जैसे विषय शामिल किए जाएंगे। यारा सहज प्रशिक्षण के प्रबंध निदेशक संजीव कंधर ने कहा कि यह पहल केवल उत्पाद उपलब्ध कराने तक सीमित नहीं है।

किसानों को सही ज्ञान देकर उनकी उत्पादकता और समृद्धि बढ़ाना इसका उद्देश्य है। कुलसचिव अश्विनी मिश्रा ने सामुदायिक रेडियो टीम को बधाई दी। एमओयू हस्ताक्षर के दौरान प्रो. अश्विनी मिश्रा, पूजा सक्सेना, तरुण शीखासह, डॉ. राजीव मिश्रा, राजेश रैना और रविश्या विन मौजूद रहे।



### Farmers' Outreach Activity under MoU between Community Radio, DBRAU and Yara India

On 12 September 2025, an outreach activity for farmers was organized near Rajawali, Firozabad under the Memorandum of Understanding (MoU) between Dr. Bhimrao Ambedkar University, Agra and Yara India. The initiative was conducted to enhance awareness among farmers about modern agricultural practices and sustainable farming techniques. The program was part of the collaborative efforts supported by the Ministry of Chemicals and Fertilizers, Government of India. During the outreach activity, farmers were informed about efficient fertilizer usage, soil health management, and innovative farming methods to improve agricultural productivity and sustainability. The event also provided an interactive platform where experts and farmers exchanged knowledge and practical experiences related to agriculture.

**Activity Objectives**

- To raise awareness among farmers about modern agricultural practices and technologies.
  - To promote efficient fertilizer usage and soil health management.
  - To facilitate interaction between agricultural experts and local farmers.
- Activity Outcomes**

- Farmers gained knowledge about improved fertilizer management and soil health practices.
- The program encouraged farmers to adopt modern and sustainable farming techniques.
- Strengthened collaboration between the university, agricultural experts, and farmers.



Source:

Source: <https://www.dbrausdg.in/events/69b511df3bb6e1c8e7182360>

### **Parijat Eco Foundation – Environmental Conservation**

Parijat Eco Foundation has been actively working in environmental conservation and environmental education for the past 8 years. The organization is committed to creating sustainable ecosystems and nurturing environmental responsibility among communities, especially youth. With the principle “One Plant –One Person,” the foundation seeks to build a personal connection between individuals and nature and encourage long-term care and responsibility for planted trees.



**Image: Mou with Parijaat**

## **15.4 Land sensitive waste disposal**

To align with SDG 15 (Life on Land), a university adopted a campus-wide, policy-driven system that prevents soil and ecosystem contamination from its waste streams—especially hazardous, biomedical, construction, plastic, and liquid wastes—through segregation, safe handling, treatment, monitored discharge, and responsible disposal with authorized partners. The University is committed to preventing soil and land-ecosystem contamination from all waste streams generated on campus, including hazardous chemicals, biomedical waste, construction and demolition debris, e-waste, plastics, and organic waste. All waste shall be segregated at source into clearly labeled, color-coded bins; stored in designated, impermeable areas with spill containment; and handled only by trained personnel using appropriate personal protective equipment. Liquid effluents from laboratories, hostels, and facilities shall be treated in accordance with national discharge standards, with priority reuse of treated water for irrigation, horticulture, and groundwater recharge to protect surrounding terrestrial ecosystems. Hazardous and special wastes shall be transferred exclusively to authorized, licensed vendors for treatment and final disposal, with complete documentation of manifests, tracking, and disposal certificates. The University shall minimize landfilling through waste-prevention, reuse, recycling, and composting initiatives; ban or restrict single-use plastics; and conduct regular waste audits and environmental monitoring to ensure compliance, continuous improvement, and transparent reporting under its sustainability framework

### **15.4.1 Water discharge guidelines and standards-**

The University also adopted comprehensive environmental policies focusing on water conservation, pollution control, and sustainable resource management. Rainwater harvesting systems have been implemented across the campus to recharge groundwater and reduce dependency on external water sources. Regular green and energy audits are conducted to monitor sustainability performance and identify areas for improvement. Ground cover.



## Dr. Bhimrao Ambedkar University, Agra

### Formerly Agra University, Agra

(A+ Grade NAAC Accredited)

#### POLICY ON WATER RESOURCE CONSERVATION AND SUSTAINABLE MANAGEMENT

##### 1. Short Title and Commencement

- This policy shall be entitled the “**Policy On Water Resource Conservation And Sustainable Management**” of Dr. Bhimrao Ambedkar University, Agra.
- This policy shall come into strength from the date of its approval by the Executive Council of the University.
- The policy shall be appropriate to all the campuses, academic departments, administrative offices, hostels, residential quarters, research centers, associated institutions, and all the stakeholders allied with the University.

##### 2. Preamble

- Dr. Bhimrao Ambedkar University, Agra distinguishes water as a vital natural resource essential for life, environmental sustainability, public health, and socio-economic improvement. In view of escalating water scarcity, climate change, declining groundwater levels, and increasing demand for water possessions, the University is committed to promote accountable water management and preservation practices.
- This policy is allied with the Sustainable Development Goals (SDG 6: Clean Water and Sanitation), the National Water Policy, environmental regulations, and the University's commitment to sustainable campus improvement and environmental stewardship.

##### 3. Purpose

- Ensuring the sustainable employ, conservation, and management of water resources within the University.
- Reducing water consumption and recover water-use competence crosswise all University operations.
- Promoting attentiveness, education, and participation in water conservation initiatives.
- Contributing to environmental sustainability and responsible source executive.

##### 4. Objectives

- Minimizing water consumption through competent management practices and technological interventions.
- Promoting rainwater harvesting and groundwater refresh initiatives.
- Encouraging recycling, reprocess, and treatment of wastewater wherever feasible.
- Creating awareness concerning water conservation among students, faculty, staff, and the community.
- Integrating water conservation principles into teaching, research, expansion, and outreach activities.
- Establishing mechanisms for monitoring, auditing, and humanizing water management practices.

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- Establishing mechanisms for monitoring, auditing, and humanizing water management practices.

- Supporting sustainable campus procedures and environmental liability.

##### 5. Scope

- This policy concerns to all University-owned and managed buildings, facilities, infrastructure, and operations.
- The policy wraps academic, administrative, residential, frivolous, research, and extension activities connecting water usage.
- The policy concerns to all the students, faculty members, employees, contractors, vendors, visitors, and other stakeholders allied with the University.
- The policy expands to affiliated institutions and centers wherever pertinent.

##### 6. Policy Provisions

- The University shall encourage competent and accountable use of water in all the campus operations.
- Water conservation measures shall be integrated into campus arrangement, construction, restoration, landscaping, and infrastructure development projects.
- Introduction of **IoT-based smart water monitoring systems**, where digital water meters and sensors continuously monitor water consumption, storage levels, and leakages in real time.
- **Water security and climate resilience plan**” measures to address emergency water shortages, infrastructure failures, and long-term climate-related challenges, ensuring uninterrupted availability of safe water on campus. Ex-Backup storage, increase rainwater harvesting capacity, drinking water monitoring, etc.
- University may conduct awareness campaigns among communities on water conservation, rainwater harvesting, sanitation, and safe drinking water through NSS, NCC, SDG Club volunteers, thereby strengthening community engagement under SDG 6.
- Rainwater harvesting systems shall be recognized, maintained, and extended wherever technically and inexpensively practicable.

- Water consumption, harvesting competence, wastewater reuse, and conservation initiatives shall be scrutinized periodically.
- University may conduct an **Annual Water Audit** to assess water consumption, identify losses, evaluate conservation measures, and estimate the institutional water footprint. The audit findings should help future consumption and conservation planning, along with publishing annual water sustainability report.
- Annual water conservation targets may be assigned to individual departments, hostels, laboratories, and administrative units along with periodic review.
- Departments and units shall oblige in implementing water conservation measures and awareness programs.
- Periodic assessments and water audits shall be assumed to approximation fulfillment and performance.
- Annual reports on water conservation initiatives, achievements, and challenges shall be proposed to the Executive Council of the university.

#### 8. Compliance and Enforcement

- All stakeholders shall fulfill with the provisions of this policy and sustain water conservation initiatives.
- Departments, centers, and administrative units shall make sure accomplishment of water-saving measures within their areas of accountabilities.
- Any identified examples of water wastage, carelessness, or non-compliance shall be tackled through appropriate remedial measures.
- Contractors, vendors, and service providers occupied by the University shall adhere to appropriate water conservation requirements.
- The designated authority may concern guidelines, advisories, and recommendations to progress compliance and conservation presentation.

#### 10. Expected Outcomes

- Reduction in general water consumption and wastage crosswise the University.
- Enlarged acceptance of rainwater harvesting, groundwater recharge and wastewater recycle practices.
- Enhanced water-use competence in academic, administrative, residential, and operational activities.
- Improved awareness and contribution in water conservation among students, faculty, staff, and the community.
- Reinforced research, innovation, and academic engagement in sustainable water management.
- Enhanced environmental sustainability and resilience to water-related challenges.
- Involvement to the accomplishment of SDG 6 (Clean Water and Sanitation) and other sustainability goals.
- Enlargement of the University as a model campus for accountable water stewardship and environmental management.

#### 11. Review Mechanism

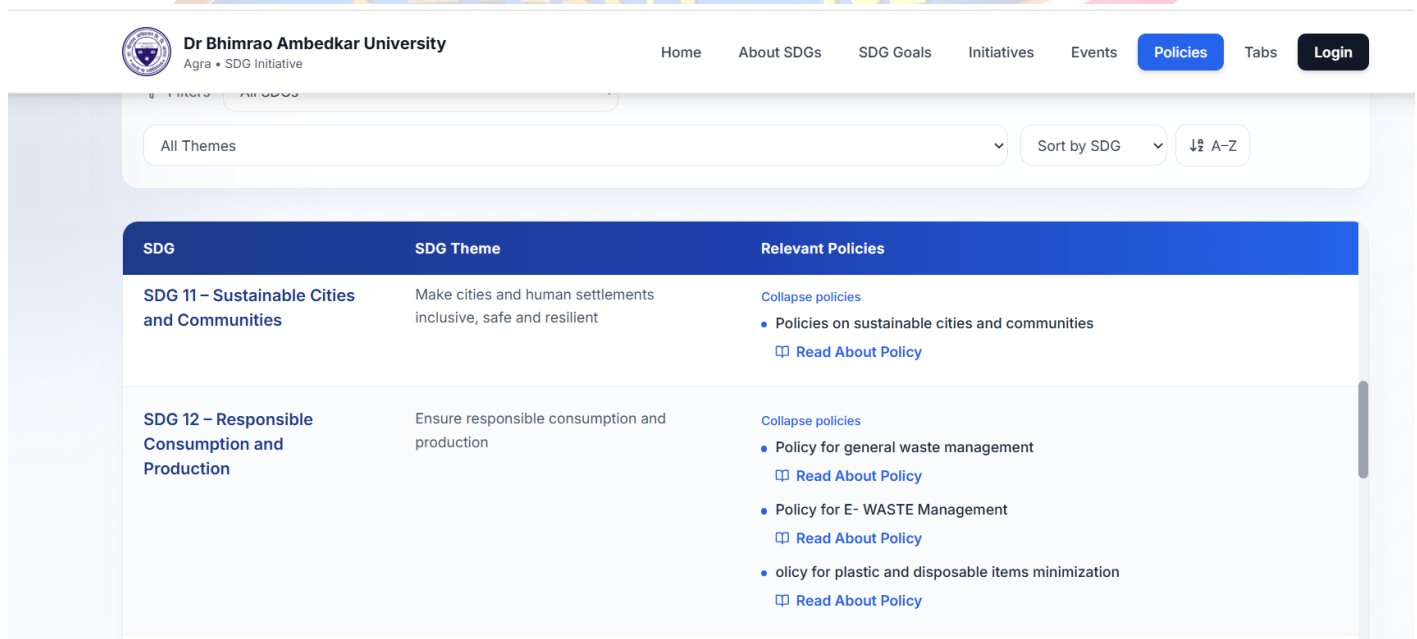
- This policy shall be reviewed every three years or earlier if required by changes in environmental regulations, institutional priorities, technological advancements, or supply conditions.
- The review shall evaluate water consumption trends, conservation achievements, audit findings, stakeholder feedback, and implementation efficiency.
- Recommendations occurring from the review shall be submitted to the Executive Council of the university for approval and incorporation into revised policy provisions.
- The University shall incessantly progress its water conservation practices through periodic evaluation, innovation, and adoption of best practices in sustainable water management.

End of document ■

## 15.4.2 Policy on plastic waste reduction

A formal plastic-waste reduction policy strictly limit single-use plastics in cafeterias, events, and procurement, while promoting reusable, biodegradable, or recycled alternatives. The university implemented source segregation (dry recyclables vs. organics vs. residuals), expand on-campus recycling and composting, and run awareness campaigns for students and staff to change disposal behavior. Residence halls, labs, follows clear solid-waste SOPs to prevent plastic leakage into soil and open drains.

Policy Link-<https://www.dbrausdg.in/policies>



**Dr. Bhimrao Ambedkar University**  
Agra • SDG Initiative

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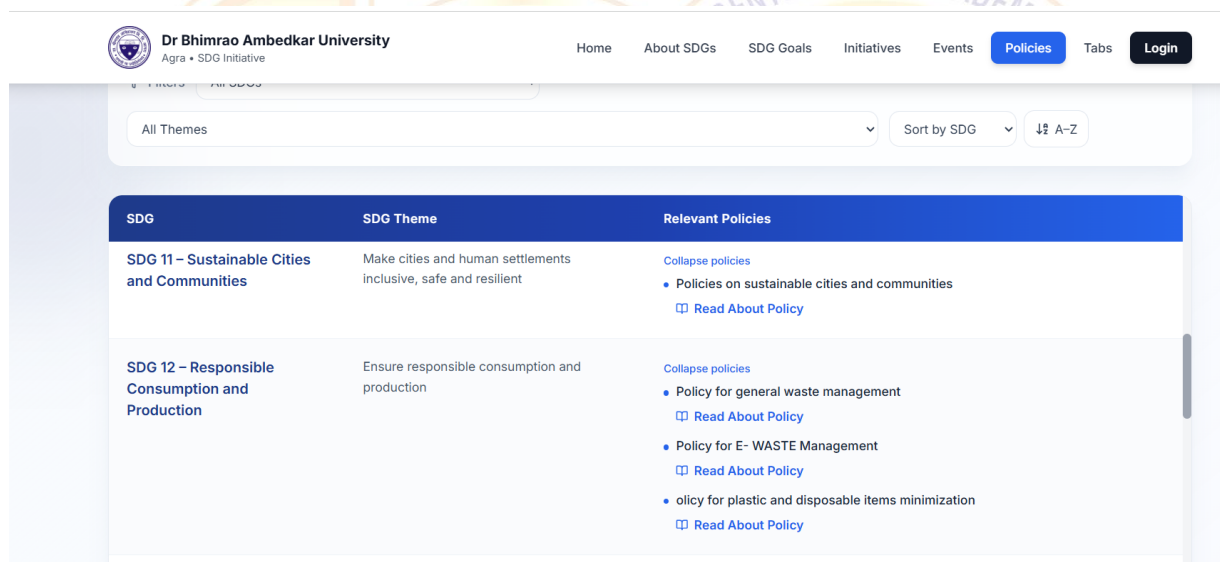
All Themes Sort by SDG A-Z

| SDG                                                    | SDG Theme                                                       | Relevant Policies                                                                                                                                                                                                                                                   |
|--------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SDG 11 – Sustainable Cities and Communities</b>     | Make cities and human settlements inclusive, safe and resilient | <p>Collapse policies</p> <ul style="list-style-type: none"> <li>• Policies on sustainable cities and communities</li> </ul> <p><a href="#">Read About Policy</a></p>                                                                                                |
| <b>SDG 12 – Responsible Consumption and Production</b> | Ensure responsible consumption and production                   | <p>Collapse policies</p> <ul style="list-style-type: none"> <li>• Policy for general waste management</li> <li>• Policy for E- WASTE Management</li> <li>• Policy for plastic and disposable items minimization</li> </ul> <p><a href="#">Read About Policy</a></p> |

### 15.4.3 policy on hazardous waste disposal –

All hazardous wastes—including laboratory chemicals, biomedical waste, e-waste, and construction/demolition debris—must be segregated at source, stored in labeled, secure containers, and handed over only to authorized, specialized vendors for treatment and final disposal. The university should maintain an up-to-date hazardous-waste inventory, train staff and students on safe handling, and keep auditable records of manifests and disposal certificates. Policy link is attached

Policy Link-<https://www.dbrausdg.in/policies>



The screenshot shows the website of Dr. Bhimrao Ambedkar University Agra, specifically the SDG Initiative page. The page features a navigation bar with links to Home, About SDGs, SDG Goals, Initiatives, Events, Policies (highlighted), Tabs, and Login. Below the navigation bar, there is a filter section with a dropdown menu set to 'All Themes' and a 'Sort by SDG' dropdown. The main content area displays a table with three columns: SDG, SDG Theme, and Relevant Policies. The table lists two SDGs: SDG 11 – Sustainable Cities and Communities, and SDG 12 – Responsible Consumption and Production. For SDG 12, several policies are listed, including 'Policy for general waste management', 'Policy for E- WASTE Management', and 'Policy for plastic and disposable items minimization'. Each policy entry includes a 'Read About Policy' link.

| SDG                                             | SDG Theme                                                       | Relevant Policies                                                                                                                                                                                                                                                 |
|-------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SDG 11 – Sustainable Cities and Communities     | Make cities and human settlements inclusive, safe and resilient | <a href="#">Collapse policies</a> <ul style="list-style-type: none"><li>• Policies on sustainable cities and communities</li></ul> <a href="#">Read About Policy</a>                                                                                              |
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