

Indraprastha College for Women University of Delhi

Date: 26.12.2025

Compliance Report on Effective Waste Management in the Campus

Indraprastha College for Women, University of Delhi, adheres to the provisions of the **Solid Waste Management Rules, 2016** and guidelines issued by the **Municipal Corporation of Delhi (MCD)** for effective and scientific management of solid waste. The institution has implemented a structured waste management system focusing on segregation at source, safe collection, processing, and environmentally sound disposal.

In addition, the College has undertaken appropriate sustainability measures to optimize water usage, harness solar energy, minimize waste generation, ensure segregation and recycling of waste, and convert leaf litter and canteen waste into organic manure through on-campus composting practices.

Campus Facilities for Waste Management and Resource Conservation

The College is committed to sustainable waste management practices and follows a comprehensive “**No Waste Leaves the Campus**” approach through a robust Waste Management Programme. This initiative ensures responsible handling of both biodegradable and non-biodegradable waste generated across academic and common areas of the campus.

1. Segregation of Waste: Waste segregation is practiced at source using multi-coloured dustbins placed across the campus, including residential facilities: Blue bins for recyclable (dry) waste & Green bins for biodegradable (wet) waste. This system facilitates efficient collection, processing, and recycling of waste.



Segregated collection of Waste in Blue and Green Dustbins (34 pairs in the campus already installed)

Additional steps taken: Segregated collection of waste through **blue (dry/recyclable) and green (wet/biodegradable) dustbins** has been ensured inside the college canteen and hostel, addressing the observation raised during the recent MCD inspection visit.



Canteen Area, Indraprastha College for Women



KG Hostel Mess, Indraprastha College for Women

2. Segregated Collection and Internal Transportation of Waste: Segregated waste collected from dustbins is transported separately using blue (dry) and green (wet) carts to prevent mixing during internal handling. This practice ensures continuity of segregation from source to processing.



Use of blue (dry) and green (wet) carts for transportaion of waste

3. On-Campus Composting of Biodegradable Waste: The College has implemented an efficient waste management system to recycle biodegradable waste through an **Organic Waste Composter** (Alphatherm Compost 24-25 model) and six leaf composters. The Organic Waste Composter, a fully automated unit, processes 25-30 kg of organic waste daily, producing nutrient-rich manure within a 24-hour cycle. This allows for a continuous conversion of food and other organic waste into reusable compost.

It is submitted that the Organic Waste Composter had developed a temporary technical fault and was non-operational during the recent inspection. Necessary repair work has been undertaken, and efforts are being made to ensure its immediate resumption of operations.

- As per service report dated 18 June 2025, the Organic Waste Composter was repaired and made functional.
- As per service report dated 16 Oct 2025, the Organic Waste Composter was functional and working fine.
- OWC was showing some problem from the 1st week of November 2025. College contacted Alfatherm telephonically to resolve the issue. The service engineer provided solution telephonically. Machine worked temporarily but again started showing problem.
- As per service report dated 19 Nov 2025, the Organic Waste Composter was checked and gear box was found damaged. 2-month time was given for the repair.



Organic Waste Composter

To handle the substantial leaf waste generated due to the campus's abundant greenery, **six dedicated Leaf Composters** are also operational, effectively breaking down leaves into compost. **Additionally, compost pits have been dug to accommodate biodegradable and leaf waste**, ensuring uninterrupted organic waste processing during maintenance or repair of composting units. Together, these composting systems support the campus's commitment to sustainable waste management and reduce dependency on external waste disposal services.



Leaf waste collection and processed organic manure



Leaf Composter. Front lawn, Indraprastha College for Women

4. Recycling of Paper, Plastic, and Electronic Waste: Paper waste generated on campus is recycled through the authorized partner organization GREENOBIN, while plastic and electronic waste are recycled through CHINTAN. The College has formal MoUs with these organizations to ensure environmentally sound and compliant recycling of waste in accordance with prescribed norms. The College has a **dedicated plastic waste collection room** for the temporary and safe storage of plastic waste prior to its handover to authorized recycling agencies. Recognizing the impact of electronic waste, the College also organizes regular **E-waste collection drives**, encouraging responsible disposal among staff and students.



Plastic waste collection room



E-waste collection drives in the College Campus

5. **Energy and Water Conservation Measures:** The College has made significant strides in energy and water conservation through the adoption of sustainable infrastructure. Solar panels with a capacity of 0.8 kW have been installed for street lighting, and solar geysers provide hot water in two hostels accommodating approximately 450 students. In addition, energy-efficient LED lighting is used across campus buildings. The installation of 10 rainwater harvesting pits further demonstrates the College's commitment to resource conservation and sustainable water management.



Solar panels and lighting in the campus



Rain Water Harvesting Pit (Total Number: 9, Additional 3 under construction)

6. **Awards and Recognition:** In recognition of its sustained environmental initiatives and responsible waste management practices, the College has been conferred with multiple awards and recognitions by the Ministry of Education, the Municipal Corporation of Delhi (MCD), and other reputed organizations.
- a. The **Municipal Corporation of Delhi (MCD)** has officially declared and certified the campus as a “**Zero Waste Campus**”, in recognition of its effective waste segregation, recycling, and sustainable waste management practices.



- b. An **annual environmental audit** is carried out by an independent external agency, following which the College received the **Environmental Audit Platinum Award (2023–24)** from **Green Mentors** for its sustainability and environmental management practices.

- c. The College was awarded **GLOBAL GREEN COLLEGE AWARD** in the **9th NYC Green School Conference-2025, New York** for outstanding leadership in advancing greening higher education through integrating sustainability into curricula, transforming campus operations, and supporting green skills and jobs, aligned with the Greening Higher Education Framework of UNESCO IESALC.
- d. In recognition of its sustained environmental initiatives and responsible waste management practices, the College was awarded the ‘**Sustainability Excellence Awards 2025**’ by the National EduTrust of India, **World Ecology Environment and Development (WEED) Award in 2017, Plastic Free College of the Year Award in 2018 and Zero Waste Campus Award 2025.**



- e. The College is also certified by the **Mahatma Gandhi National Council of Rural Education (MGNCRE)**, Ministry of Education, Government of India, as a **Social Entrepreneurship, Swachhta and Rural Engagement Cell (SES-REC) Institution**.

