



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

## SWACHH BHARAT ABHIYAN

### JAKKUR LAKE CLEANLINESS & ECO-DRIVE 2026

**Theme:** "Swachhata Se Samridhi - Clean Lakes, Green Future"

**Date of Event:** September 30, 2026

**Venue:** Jakkur Lake, Yelahanka, Bengaluru, Karnataka

## 1. EXECUTIVE SUMMARY

Under the nationwide mandate of the Swachh Bharat Abhiyan and in celebration of sustainable environmental practices, the Department of Electrical and Electronics Engineering (EEE) at New Horizon College of Engineering (NHCE), Bengaluru, spearheaded an extensive community cleanliness and ecological revitalization initiative entitled "Jakkur Lake Cleanliness & Eco-Drive 2026". Conducted on Wednesday, September 30, 2026, from 09:00 AM onwards, the initiative brought together students, faculty members, institutional technical bodies (IEEE NHCE Student Branch and IEEE DEIS Chapter), student leadership wings (Green Energy Club), and dedicated grassroots lake conservation stewards from the Jala Poshan Trust.

The primary objective of the program was to translate classroom environmental consciousness into hands-on field intervention. By undertaking structured solid-waste management, ecological profiling, and public awareness campaigns along the lake bund and its surrounding biodiversity corridors, the drive sought to mitigate plastic pollution, protect local avian habitats, and instill lifelong civic accountability in future engineers.

## 2. EVENT METADATA & ORGANIZING COMMITTEE

| Parameter                   | Details                                                                |
|-----------------------------|------------------------------------------------------------------------|
| <b>Title of the Event</b>   | Swachh Bharat Abhiyan – Jakkur Lake Cleanliness & Eco-Drive 2026       |
| <b>Institutional Banner</b> | New Horizon College of Engineering (NHCE), 25 Years of Global Learning |
| <b>Department</b>           | Electrical and Electronics Engineering (EEE)                           |
| <b>Date &amp; Time</b>      | September 30, 2026   09:00 AM – 02:00 PM IST                           |

| Parameter                               | Details                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Target Location</b>                  | Jakkur Lake, Bengaluru North, Karnataka                                                                                                                                                                                                                                                                    |
| <b>Target Beneficiaries</b>             | Undergraduate engineering students, faculty coordinators, wetland conservation volunteers, and local neighborhood communities                                                                                                                                                                              |
| <b>Chief Patron / Principal</b>         | Dr. Manjunatha (Principal, NHCE)                                                                                                                                                                                                                                                                           |
| <b>Convenor</b>                         | Dr. Sujitha S (Professor & Head of Department – EEE, NHCE)                                                                                                                                                                                                                                                 |
| <b>Faculty &amp; Staff Coordinators</b> | <ul style="list-style-type: none"> <li>• Prof. Vinod Kumar S (Assistant Professor, Dept. of EEE)</li> <li>• Prof. Kavitha C H (Assistant Professor, Dept. of EEE)</li> <li>• Mr. Vinoth Kumar M H (Staff Coordinator, Dept. of EEE)</li> <li>• Mr. Rajesh B K (Staff Coordinator, Dept. of EEE)</li> </ul> |

### 3. CONTEXT & BACKGROUND: THE ECOLOGICAL SIGNIFICANCE OF JAKKUR LAKE

Jakkur Lake is one of the most prominent, ecologically vital freshwater bodies in North Bengaluru, serving as a bio-diverse urban sanctuary for migratory birds, aquatic flora, and ground-water replenishment. Maintained through proactive citizen-led community governance spearheaded by the Jala Poshan Trust, the lake presents a thriving model of integrated wetland management.

However, rapid urban fringe expansion, continuous pedestrian traffic, and storm runoff lead to intermittent non-biodegradable debris accumulation along its walking trails, shoreline embankments, and surrounding tree groves. Recognizing the necessity of collective civic involvement, the EEE Department and its affiliated professional societies conceptualized this drive to contribute tangible conservation work while reinforcing the institutional ethos of environmental stewardship.

### 4. OBJECTIVES OF THE INITIATIVE

The clean-up and eco-drive was established with four key pillars:

- **Action-Oriented Environmental Sanitization:** To undertake systematic manual eradication of accumulated non-biodegradable plastics, polythene covers, micro-waste fragments, Styrofoam packaging, and discarded items along the periphery of Jakkur Lake.
- **Practical Source Segregation:** To demonstrate rigorous solid waste handling protocols by classifying collected items directly into recyclable plastics, dry inert refuse, paper

packaging, and potential hazardous rejects under the direct guidance of Jala Poshan volunteers.

- **Civic Consciousness & Community Interface:** To conduct informal conversational drives with lake visitors, morning walkers, and local youth regarding the preservation of urban wetlands and the reduction of single-use disposable plastics.
- **Cultivation of Holistic Engineering Attributes:** To cultivate community empathy, institutional team coordination, and leadership skills aligned with NBA graduate attributes concerning societal responsibility and environmental sustainability.

## 5. DETAILED CHRONOLOGICAL EVENT PROCEEDINGS

### **Phase I: Assembly, Registration, and Safety Protocol Induction (09:00 AM - 09:30 AM)**

Student volunteers, student coordinators, and faculty leads gathered at the designated primary assembly point near the North Gate entrance of Jakkur Lake. Volunteers completed formal registration protocols and underwent an in-depth safety induction conducted collaboratively by faculty coordinators and Jala Poshan ground mentors. The briefing covered essential field guidelines: wearing mandatory personal protective equipment, avoiding direct shoreline edges, preserving sensitive bird-nesting vegetation, and handling glassware or sharp metal items with specialized caution.

### **Phase II: Inaugural Address & Distribution of Sanitation Materials (09:30 AM - 10:00 AM)**

The event commenced with a brief opening assembly. Faculty coordinators outlined the thematic significance of "Swachhata Se Samridhhi" (Prosperity through Cleanliness) and reiterated the long-term impact of community-driven water preservation. Sanitation materials—including biodegradable heavy-duty collection sacks, puncture-resistant protective latex gloves, sanitizer dispensers, and safety masks—were distributed across all participant squads.

### **Phase III: Coordinated Cleanliness Drive & Solid Waste Collection (10:00 AM - 12:30 PM)**

Participants were deployed in four demarcated teams along assigned sectors spanning the primary embankment walkway, boundary green fences, secondary forest patches, and community resting pavilions:

- **Sector A (North Trail & Entrance Buffer):** Focused on high-density pedestrian litter, including food wrappers, beverage pouches, and plastic lids.
- **Sector B (East Lake Embankment):** Targeted non-biodegradable flotsam washed ashore along the riparian edges and stone ripraps.
- **Sector C (Community Walkway & Seating Areas):** Cleared discarded paper goods, packaging material, and dry plant litter blocking drains.
- **Sector D (Waste Consolidation & Classification Center):** Managed secondary sorting, segregating plastic beverage containers, hard plastics, aluminum foils, and miscellaneous waste into labeled Jala Poshan containment sacks.

#### **Phase IV: Eco-Awareness Campaign & Public Interaction (12:30 PM - 01:15 PM)**

Following the conclusion of field cleanup operations, student squads engaged in dialogue with morning exercisers, birdwatchers, and families visiting the lake grounds. The students shared practical pointers on eliminating single-use plastics, participating in composting, and championing water conservation within their local residential housing clusters.

#### **Phase V: De-briefing, Environmental Oath, and Concluding Assembly (01:15 PM - 02:00 PM)**

The collected debris sacks (weighing approximately 10 kg) were categorized and officially transferred to the municipal waste disposal coordination facility overseen by Jala Poshan. A formal closing assembly was held wherein faculty leads appreciated the students' selfless dedication. The gathering solemnly recited an Environmental Stewardship Pledge, committing to sustain personal and institutional ecological discipline.

### **6. PHOTOGRAPHIC DOCUMENTATION & MEDIA GALLERY**



*Figure 1: Group photograph of students, faculty, and volunteers with collected waste bags at Jakkur Lake*



*Figure 2: Faculty members and student volunteers actively participating in waste collection and safety equipment distribution*



*Figure 3: Faculty members and student volunteers actively participating in waste collection and safety equipment distribution*



Figure 4: Student teams collecting non-biodegradable waste along the Jakkur Lake walkway and surroundings



Figure 5: Volunteers cleaning up fence areas and gathering along the lake trail

## 7. QUANTITATIVE & QUALITATIVE OUTCOMES

### Quantitative Outcomes:

- Total Waste Diverted: Successfully collected, segregated, and diverted approximately 10 kg of plastic waste, discarded single-use packaging, and other non-biodegradable debris from entering the lake ecosystem.
- Area Sanitized: Covered and thoroughly cleared approximately 1 km along the active lake perimeter, riparian shoreline, and adjoining pedestrian trails.
- Volunteer Compliance: Achieved 100% participation with all student and faculty volunteers equipped with protective gear (gloves, masks), maintaining a zero-accident safety record throughout the activity.

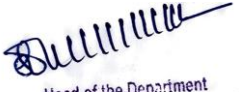
### Qualitative Impact:

- Cultivated practical civic accountability and environmental stewardship among engineering students.
- Strengthened academic-community engagement between NHCE and the grassroots conservation initiatives of Jala Poshan Trust.
- Received direct appreciation and positive interaction from local morning walkers and community members, promoting responsible zero-litter behavior.

## 8. CONCLUSION & ACKNOWLEDGMENTS

The "**Jakkur Lake Cleanliness & Eco-Drive 2026**" stands as a testament to the Department of Electrical and Electronics Engineering's dedication to societal upliftment and ecological preservation. The organizing committee conveys profound gratitude to:

- **Dr. Manjunatha** (Principal, NHCE) for visionary institutional patronage and continuous encouragement.
- **Dr. Sujitha S** (HOD, Dept. of EEE) for exceptional leadership, guidance, and logistical backing.
- **Faculty Coordinators** Prof. Vinod Kumar S, Prof. Kavitha C H, Mr. Vinoth Kumar M H, and Mr. Rajesh B K for meticulous coordination.
- **Jala Poshan Trust** for opening their conservation site and sharing invaluable ground expertise.
- **All Student Volunteers** for their relentless enthusiasm, physical exertion, and environmental dedication.

  
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