

ACTIVITY REPORT 24-25

Activities & Projects

Engineers Without Borders–India

Engineers Without Borders –India is affiliated to Engineers Without Borders - International. EWB-India provides a platform for academia, corporate, NGOs and society to join hands to improve the quality of life of the needy.

Vision-To nurture and motivate students and professionals to undertake real-life sustainable social projects and create global leaders.

Mission-Partner with corporate & social organizations involves students and professional, and offer sustainable solutions to improve the quality of life of the needy people.

EWB-India is a non-profit voluntary organization.

- Works with engineering students, working professionals, corporate and NGOs to address society needs.
- Have grown to more than 40 student chapters and six professional chapters across India with more than 2500 members.
- Affiliated to EWB-International with presence in about 50 countries.
- EWB–India Focus on areas in water, sanitation, education, health, waste management, alternate energy.

Foreword

On behalf of EWB India, I take great pleasure in presenting the EWB India Annual Activity Report for the year 2024 - 25

I thank all the Board Members, Members of the Professional Chapters and Student Chapters, Ms Kaunain Moosavi at EWB Office, Donors and Well Wishers for giving me an opportunity to serve this great institution.

Mr. Bharat C Maharaj
Chairman
EWB India

PROJECT

14.4 kw Solar On-Grid Power system for School

- **SCOPE:** Design, supply, delivery, installation, liaison, approvals from electricity board and commissioning.
- **Location:** S.S.Nikam English School, Bhadav Road, Post Tal.Mangaon Dist–Raigad Maharashtra 402104.
- **Project Objective:** To provide green energy and cut down one electricity expenses of the school so that benefits passed on to improve over all educational facilities and contribute to Infrastructure development in the school.
- **Beneficiary:** 1000 Nos. School Students from Std.I to Std.XII and the teaching staff immensely benefited by this project.
- **Project Execution -** Supply of all panels, Inverter and other auxiliaries completed on 5th Dec 2023. Supply items verified by School authorities and delivery challan signed by School Principal. Material was placed in safe custody until commencement of Installation works. Installation of panels and Inverter commenced at site after receipt of sanction letter from electricity board and providing of Workmen's compensation insurance policy. Over all Installation of Inverter, panels, electrical connections, and auxiliaries was completed in 10days. After work completion all required installation reports were submitted and approved from the electricity board. Net Meter was taken in line for Grid connection. Branding board for the Inauguration was in scope of the supplier and was delivered at site on 8th Feb 2024 and installed on 16th Feb 2024. The total execution time of the Project from or displacement to handover including all Pre-sanctions and final checks and approvals from electricity board was 3 months.

14.4 kw Solar On-Grid Power system for School

- **Cost Optimization:** Proposal was finalized based on technical and commercial discussions with Maventech – Pune (L1 Bidder) in month of September 2023 and put forward for BVPLCSR Committee and management approval. The order was finalized on 24th November 2023 and as per prevailing market conditions, cost was re negotiated and additional discount of Rs23,714/- was in corporate while placing the final work order. Order amendment for the project completed and 2 nos.9W Solar Lights, 12V 40W Solar Panel and 12.8V 12AH Battery supplied and installed in the balance differential amount for 100% fund utilization.



Inauguration of 14.4 kw Solar On-Grid Power system on 17th Feb 2024

Attended by Black & Veatch and EWB Members – Raturaj Govilkar,
Ravikiran Aphale, TusharJana, Vaibhav Chavan, Sachin Manthalkar Chetan
Chaudhari

Project E-Learning Centers for School Students



The main Objective of the project is on improving the teaching-learning experience through audio-visual modules in local languages. The total student beneficiaries will be 119

The project was initiated and completed in Kendriya Prathamik School, Amashi, Taluka-Karveer, District-Kolhapur on 21st October' 2024.

Project Sanitary Vending Machine and Incinerator

The main objective of the project is providing Sanitary Napkin Vending Machine in school premises for making it available to the girls and promoting health and hygiene.

With a total student beneficiary of 317 girl students. the project was inaugurated on 25th October'2024 at Mangubhai Dattani Vidyalaya, Borivali, Mumbai.



Project - Drinking Water Facility in Schools



Project - Drinking Water Facility in Schools

- Drinking Water Facility comprising of water cooler with inbuilt RO purifier, the main objective was to provide clean and adequate drinking Water System to the school students.
- The total beneficiaries were Approx. 1000 students
- Locations of Project are:
 - 1. Aamchi Shala, Agarwadi, Saphale, Dist Palghar
 - 2. Rajguru Hareshwar Mahadev Pandit Vidyalaya, Saphale
 - 3. Chandrakala Chittaranjan Shroff English Medium High School, Saphale

Project - Restoration and Rejuvenation of Pond at Saphale

PROJECT PHOTOS



Restoration and Rejuvenation of Pond
@ Saphale



Event - EWB Mumbai Chapter- International Coastal Clean up

- The International Coastal Clean up event, organized by EWB, was a resounding success. Held at Juhu Beach, the event saw enthusiastic participation from 36 volunteers representing different organizations. Together, we managed to collect approximately 23kg of trash, significantly contributing to the cleanliness and preservation of the coastal environment.
- During the International Coastal Clean up at Juhu Beach, the most common types of trash collected included:
 - Plastic bottles and caps
 - Food wrappers and packaging
 - Cigarette butts
 - Plastic bags
 - Styrofoam pieces
 - Glass bottles
- These items are typical of coastal litter and highlight the ongoing issue of plastic pollution in our oceans.
- It's great to see efforts like this clean up making a positive impact

Event - EWB Mumbai Chapter- International Coastal Clean up



World Environment Day Celebration – EWB India Mumbai Professional Chapter

On World Environment Day, Engineers Without Borders India made a significant contribution to Sanjay Gandhi National Park by organizing a seed-ball sowing initiative.

- This commendable effort not only promotes ecological restoration but also cultivates a sense of environmental stewardship among participants.
 - It is deeply inspired by EWB India's dedication to sustainable development. Their commitment to collaborating across India to address pressing
 - societal needs is truly commendable.
1. Beyond the Seed Ball: Expanding Our Impact EWB-India's initiative serves as a powerful reminder that even small actions, when undertaken collectively, can generate significant positive change.
 2. Exploring Seed Ball Composition: Sharing details about the seed-ball composition, like the types of native plants included, would raise awareness about the local eco system and promote seed selection for future endeavors.
 3. Long - Term Monitoring: Mentioning plans for monitoring seed-ball germination and growth would show case EWB-India's commitment to long - term environmental impact.
 4. Knowledge Sharing: EWB-India discussed the event or plans to share their seed-ball making process would allow others to replicate this impactful activity in their communities.
 5. Expanding the Conversation: Encouraging readers to learn more about EWB-India's development projects and explore volunteer opportunities would broaden the organization's reach and increase its impact.

By incorporating these points, we can transform this event report into a valuable and insightful message that inspires environmental action and highlights the importance of collaborative efforts for a sustainable future.

Together we can make a strong group, and by sharing knowledge and collaborating across communities, we can build a more robust movement for positive change.

World Environment Day Celebration – EWB India Mumbai Professional Chapter



Event - National Event 'Inno-Fiesta 2024 EWB India

HITAM Students' Chapter

- OBJECTIVE OF THE EVENT:
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- The aim is to raise public awareness of a venue, event, tradition, culture, and art form.
- Larger neighborhood participation will lead to an increased sense of community pride.
- Introducing brand-new, and groundbreaking ideas.
- Providing education, training, and challenging opportunities.
- Understanding culture from a diverse perspective.
- Technology-driven event organization and management.
- Engaging leaders in a comprehensive discussion about innovation objectives and product goals.
- Achieving the organization's innovation mission by fostering an innovative culture.

Event - National Event 'Inno-Fiesta 2024 EWB India HITAM Students' Chapter



From Idea to Impact - Motivational Session EWB-India HITAM Student Chapter

- From Idea to Impact - Motivational Session by Successful Entrepreneur/Start-up Founder, Grassroot Innovation – NGO organized by XPLORE on 21 Oct 2024.
- Chief Guest Brig Pogula Ganesham, Founder President, Palle Srujana.
- Objective: Encourage students and aspiring entrepreneurs to identify local challenges and develop innovative solutions with real-world impact.
- With a total Participants: 305, External Participants -1, Internal Participants – 304.



The outcome of the session on Grass root Innovation enhanced participants' understanding of community-driven problem-solving by showcasing real-life examples and encouraging innovative thinking. It inspired students and faculty to identify local challenges and develop practical, resource-efficient solutions through ideation, prototyping, and collaborative efforts. The session fostered critical thinking, creativity, and teamwork, while also generating actionable project ideas for community betterment. Participants gained valuable insights into implementing sustainable solutions, contributing to societal impact. Additionally, the session strengthened networking opportunities, setting a foundation for interdisciplinary projects, institutional recognition, and future initiatives aligned with grassroots innovation principles.

World Environment Day – EWB India MJCET Student Chapter

In view of the World Environment Day on June 5' 2024 a online quiz was conducted, more than 100 students participated in the quiz. Plantation Drive was organized at Government School Erramanzil explaining the importance of Plantation. More than 25 students participated in the program.

