

QUARTERLY REPORT

OCTOBER - DECEMBER '24



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OBJECTIVES

1. Develop a sustainable Solid Waste Management Model
2. Establish a waste collection and processing system with a special focus on local community development.
3. Execute IEC & Awareness for community support and participation.
4. Aid financial sustainability through govt sources, user-fee, sale of recyclables (SOR) & plastic credits, and EPR in the long run.
5. Govt capacity building through Outreach and Advocacy with the dual approach of top-down and bottom-up
6. Consultation for technological intervention to improve efficiency.

KEY POINTERS

1. To raise awareness towards waste generators including commercial establishments, households, and tourists for reduced waste dumping, littering, and burning, as well as segregation at source.
2. To enhance existing infrastructure and introduce new infrastructure as per the gaps identified through liaising with different stakeholders and administrations.
3. To build the capacity of a local waste entrepreneur to improve the local waste value chain and sustainably operate the Material Recovery Facility.
4. To support in channelizing and consult on utilizing more government funds for waste management to make Kemptoy a Zero Waste Tourist Destination
5. To generate livelihoods for local communities and waste workers and uplift their capacities.
6. To promote sustainable alternatives and encourage reduce, reuse and recycle.
7. To continue to build the capacity of all stakeholders including District Administration, Gram Panchayats, Market Associations, Forest Department, Tourism Department, Department of Agriculture, contracted waste collection agency, etc.

PROPOSED DELIVERABLES Q3 2024-2025



Proposed Deliverables	Status
MoU signing between Waste Warriors and Local Entrepreneur	Done
Initiating collaboration between panchayat's and Local Entrepreneur	In Process
Twin Bins Installation	In Process
Installation of safety fence	Pending
Finalization on MRF extension plan and quotation	In Process
User Fees campaign	Pending
EcoStay Campaign	In Process
Large scale community engagement activity	as per timeline
District and Local Stakeholder Meeting	Done
Installation Of Signboard	Done
Wall Mural	Done
Project Video	In Process
Menstrual hygiene workshop	Done
Pilot Of Wet Waste Composting	In Process
Allocation Of Dumpsite	In Process

AREA OF INTERVENTION

VILLAGE AREA



Under this project we are covering two panchayats Siya and Banglow ki kandi. Focusing on awareness of the residents and commercials through events like Mohalla meetings, Clean Up drives, Stakeholder meetings, etc. Major percentage of this area are households and tenants.

KEMPTON ROUTE



Route area is the National Highway serving as the main route towards Kempton Fall. This area witnesses high traffic during the peak season. It comprises mainly of commercial establishments specially restaurants and Maggie points. Our focus was on Door to Door awareness, source segregation & encouraging clean business program.

KEMPTY FALL AREA



The main attraction for the tourists in this area is the Kempty Fall. It is a stretch of stairs from the main road leading to the fall. Variety of establishments are found for tourist shopping which generate both dry and wet waste on daily basis.

MATERIAL RECOVERY FACILITY



Material recovery facility in the foothills of lower Himalaya has been funded by UPCL through DM Tehri to Forest department and now operated by Waste Warriors. The total land allotted for the facility by the village Panchayat Banglow ki Kandi is 1020 Sq. Ft. Operating capacity per day is 250-300 kgs with current operational area 600-700 sq.ft..

WASTE COLLECTION



Waste collection happens on daily basis by Zila Panchayat in Kempty Route & Siya Panchayat. People unwilling to give waste deposit in Dry Waste Storage Units (DWSU's). Waste collection vehicle also unfills the DWSU's on regular basis in all the areas.

KEY IMPACT METRICS

17.9+ MT

TOTAL WASTE DIVERTED AWAY
FROM THE LANDFILL.

22

AWARENESS AND ENGAGEMENT
EVENTS CONDUCTED.

**1148
PEOPLE**

DIRECTLY & INDIRECTLY
ENGAGED IN AWARENESS ON
SOLID WASTE MANAGEMENT.

20.4K

Userfee collected in Kempty
fall steps area

43.4K

REVENUE GENERATED FROM
SALE OF RECYCLABLES.



AWARENESS AND ENGAGEMENT

Deliverables	Target	Oct	Nov	Dec	Achieved
Campaign Based Programs	2	0	1	0	Ongoing
Stakeholder Meetings with District/Local	2	3	4	1	400%
Wall Murals	2	4	0	0	200%
Sign Board	5	2	3	0	100%
Project short films/Documentaries	3	0	0	0	0%
Menstrual Hygiene Workshops	1	1	0	0	100%
Clean Up Drives	3	1	1	1	100%
Trainings & Exposure visits for Green Workers/Local Entrepreneur staff	2	1	0	1	100%

Month	Total Residential	No of Residential giving waste	Total Commercials	No of Commercials giving waste
October	959	269	526	375
November	959	272	526	450
December	959	291	526	485

CAMPAIGNS

ECO STAY - SHIFTING TO SUSTAINABILITY

The Eco Stay campaign, our fourth initiative, is dedicated to promoting sustainability and significantly reducing single-use plastic consumption in hotels. This campaign collaborates with selected hotels to adopt eco-friendly practices aligned with global environmental goals, enhancing their appeal as sustainable accommodation options.

Initial Meetings and Onboarding In October, initial meetings were conducted with the owners of four shortlisted hotels: Zostel, Hosteller, Brigadiers Cottage, and Kempton Lake Resort. During these sessions, the Eco Stay initiative was introduced, emphasizing its aim to position their properties as environmentally responsible and sustainable options for travelers. Three of the hotels—Zostel, Brigadiers Cottage, and Kempton Lake Resort—committed to the initiative.

Waste Audits Following the onboarding meetings, waste audits were conducted at Kempton Lake Resort and Zostel. These audits aimed to assess current waste management practices and quantify single-use plastic usage. The findings will guide tailored action plans to facilitate the transition to sustainable practices.

Segregation Training Although segregation training had been conducted previously, refresher training sessions were organized to reinforce the principles of waste segregation and connect them to the goals of the Eco Stay campaign. These sessions were held at Kempton Lake Resort and Zostel, while training at Brigadiers Cottage is scheduled for the upcoming quarter.

The focus for the next quarter will be on implementing practical measures to replace single-use items with reusable alternatives. Planned actions include initiatives like Replacing oregano sachets with sprinklers, Serving sauces in bottles instead of pouches, Establishing water refilling stations to minimize the use of plastic bottles, etc.

The Eco Stay campaign provides a platform for hotels to align with sustainability goals, addressing the growing demand for eco-friendly travel options. We look forward to working closely with the participating hotels to implement these changes and make significant strides toward reducing single-use plastic consumption.



ONE DAY EVENTS

SEGREGATION TRAINING

Hands - On Segregation Training At Himalayan Adventure Institute

Waste Warriors recently conducted a hands-on segregation training session at the Himalayan Adventure Institute. Our team spent about two hours in their kitchen during operational hours, assisting staff with segregating waste while they cooked and carried out other activities.

This initiative was planned in response to requests from several hotels seeking guidance on segregating waste during daily operations. Kitchens typically generate the highest amount of mixed waste, and this activity aimed to reduce mixed waste and improve segregation efficiency.

Himalayan Adventure Institute is now onboarded for our waste collection services. Regular waste pickups are now part of their routine, marking another step towards sustainable waste management.

Mohalla Segregation Training

On November 7, 2024, a segregation training was conducted in a mohalla in Siya. In this event, both women and men actively participated. The Waste Warriors team provided detailed information about waste management, explaining methods for managing wet, dry, and hazardous waste.

During the meeting, everyone discussed how we can protect our health and future generations from problems related to waste. They also explained the importance of segregating waste into three categories and handing it over to the district council's vehicle. The active participation of women and men in this campaign clearly shows that the community is ready to take responsibility for waste management.

Awareness Session at Government Inter College

Waste Warriors team conducted a workshop on Green Revolution and Entrepreneurship with the students of Government Inter College, Kempty. A total of 65 students participated in the workshop, which included one teacher and students from grades 9 to 12.

As part of the revolution, Waste Warriors provided detailed insights into waste management and proper disposal methods. They also discussed entrepreneurship, explaining how entrepreneurs operate in different fields and highlighting key aspects of entrepreneurship.

In conclusion, the students were encouraged not to litter and to contribute to keeping the environment clean and beautiful.



CLEAN UP DRIVE

Gram Panchayat Banglow Ki Kandi:

This campaign saw active participation from the Village Head, the President of the Kempty Fall Market Association, and local villagers. In just one hour, an impressive 180 kilograms of dry waste was collected. The primary goal was to address the issue of waste being irresponsibly dumped near the local playground. With collective efforts, the dumpsite was significantly cleaned, and a large amount of plastic waste was removed. Villagers pledged to deposit waste responsibly at the dry waste collection center, and the Gram Panchayat resolved to impose strict penalties on future violations.

Kempty Fall Parking Area:

This drive, organized to celebrate Uttarakhand Foundation Day, brought together the President and members of the Kempty Trade Association, a Sub-Inspector from the Kempty Police Station, and Waste Warriors. In one hour, 40 kilograms of dry waste was collected. A total of 24 participants, including local traders and police personnel, contributed to this successful initiative.

Young Warriors Club :

A cleanup drive took place near our Waste Warriors office in Kempty, and the atmosphere was incredibly positive. Two kids were appointed as captains, with a team of around 10 to 12 kids. However, the event exceeded expectations, with 32 kids coming together to clean a 300-meter stretch of road. In just a short time, they collected 27 kilograms of dry waste scattered along the road and the cliff area.

The kids participated with great enthusiasm and joy, and their energy was contagious. They also spread awareness about the importance of not littering and keeping our neighbourhood clean.



After



Before



MENSTRUAL HYGIENE WORKSHOP

Menstrual Awareness Program was organised in which Eighteen women participated in the session, where they were informed about the myths surrounding menstruation. The workshop also provided detailed information on maintaining a proper diet and hygiene during menstruation.

Additionally, the benefits and drawbacks of using sanitary pads were discussed. The workshop emphasised the use of environmentally-friendly menstrual products available in the market, such as cloth pads, period panties, and menstrual cups, to help preserve both health and the environment.

All the women expressed their commitment to using cloth pads to protect both their health and the environment.



IEC INSTALLATION

The Kachra Mukh Kempty initiative has made a significant impact with the completion of four stunning wall murals. These vibrant artworks, located in Siya Panchayat, Banglow Ki Kandi Panchayat, and Kempty Falls, serve as powerful reminders of the importance of cleanliness and environmental stewardship. The wall murals painted were based on local culture and traditions along with the information related to waste management practices.

Additionally, to further promote waste management, five signboards have been installed across the Kempty tourist area. These signboards are designed to inspire the community to adopt waste management practices as part of their daily routine. Together, these efforts are helping spread the message of cleanliness and responsibility.



STAKEHOLDER MEETINGS AND ADVOCACY

This quarter witnessed significant on-ground developments aimed at ensuring the sustainability of the waste management project in Kempt. Reflecting on the last quarter, a crucial milestone was achieved with the signing of an MoU between Waste Warriors and the Zila Panchayat to implement waste management practices in two panchayats—Siya and Banglow Ki Kandi.

Onboarding a Local Entrepreneur:

In a major step forward, Waste Warriors onboarded a local entrepreneur to manage operations related to waste collection and processing. Waste Warriors now serve as the IEC (Information, Education, and Communication) and Monitoring & Evaluation partner. Supported by the MakeMyTrip Foundation, our focus is on raising awareness among locals and tourists to ensure proper waste segregation, enabling the entrepreneur to achieve operational sustainability.

Local Stakeholder Meeting:

A stakeholder meeting was organized, bringing together key participants, including Gram Pradhans of both panchayats, Market Association representatives, BDC members, Local entrepreneur, Zilla Panchayat representatives, Active business stakeholders. The meeting provided updates on recent developments related to the onboarding of Local Entrepreneur, clarified role changes, and facilitated discussions on wins, challenges, and the way forward for effective waste management.

District Stakeholder Engagement:

Five meetings were conducted with district-level stakeholders, including the District Magistrate, Zila Panchayat AMA, Swajal Department, Forest Department, and SDM. Key topics of discussion included Allocation of dumping land, Disposal strategies for RDF (Refuse-Derived Fuel), Formation of a waste management committee (Samiti), Strategies for implementing user fees, Updates on the recent project handover. Progress is ongoing in these areas, and outcomes will be shared as they materialize.

These engagements with both local and district stakeholders are pivotal to the project's development and long-term sustainability. With continued collaboration, the waste management system in Kempt is set to become more efficient and impactful.



TRAININGS & EXPOSURE VISITS

Joint Meeting and Training with Local Entrepreneur and Green Workers:

Post the signing of MoU with the local entrepreneur a joint meeting with newly selected local entrepreneurs and all sanitation workers. The meeting included an in-depth discussion on the agreement document and its guidelines to ensure that everyone clearly understands their roles in operating an efficient waste management system.

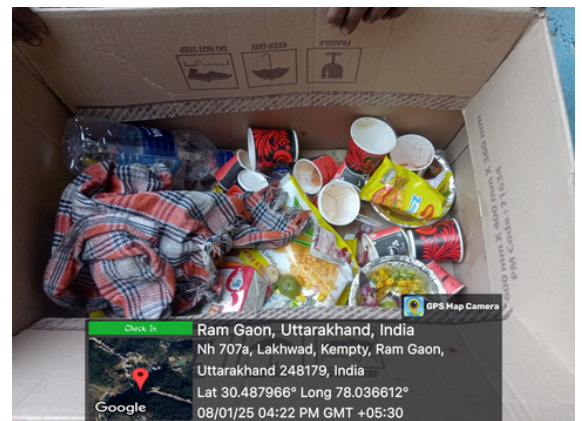
Exposure Visit and Training:

In December, two of our dedicated Green Warriors, Mr. Waseem and Mr. Sundar, who have been with us for over 8 years, visited the Kempty location for an exposure visit. During their visit, they provided hands-on training to the green workers of a local entrepreneur.

The session focused on segregation practices and how efficiency in waste segregation can be improved. This initiative not only shared valuable insights but also strengthened our mission to enhance waste management practices in the region.



GROUND OPERATIONS



Month	Waste In	Waste Out/FG Out
October	7,561 Kg	3,252 Kg
November	5,086 Kg	1,520 Kg
December	5,278 Kg	5,333 Kg
Total	17,925 Kg	10,105 Kg

ON GROUND DEVELOPMENTS

OPERATIONS HANDOVER TO LOCAL ENTREPRENEUR

Following the signing of the MoU with the local entrepreneur, the collection vehicle and all associated infrastructure including three Waste Banks and one Plastic Waste Management Unit have been officially handed over to the entrepreneur.

The local entrepreneur will now be responsible for operating all the waste management infrastructure as well as Regular maintenance and upkeep of the handed-over facilities will also be managed by the entrepreneur.

These units will be dedicated exclusively to managing waste generated within the two panchayats, Siya and Banglow Ki Kandi. This transition marks a significant step towards empowering local stakeholders and ensuring the sustainable management of waste in these areas.

LOCATION IDENTIFICATION FOR DUMPSITE

In this quarter, as part of the ongoing efforts to establish an official dumping and wet waste processing site for the Siya and Banglow Ki Kandi panchayats, the Revenue Officer identified seven potential plots of land. These included both forest and civil lands.

Waste Warriors assessed all the identified lands based on various selection criteria, including accessibility, environmental impact, and suitability for waste management operations. One land was selected as the most suitable for the purpose.

The documentation for the selected land has been submitted for approval at the district level. The final approval from the District Magistrate is awaited to proceed with the establishment of the site. This development is a critical step towards building sustainable waste management infrastructure for the two panchayats.

WASTE COLLECTION FROM TWO MAJOR PROPERTIES

In December, a significant development addressed waste management challenges in the uncatered areas of Siya and Banglow Ki Kandi panchayats. Two major hotels, Kempty Lake Resort and Brigadier's Cottage, previously faced difficulties in waste collection due to their location in challenging terrains.

To overcome the issue, local workers were engaged to manually carry waste from these properties to the nearest road access point. From the road access, the waste is now transported by vehicle to the Waste Bank for further processing.

This initiative has enabled the hotels to efficiently dispose of their waste, ensuring that even properties in remote areas are integrated into the waste management system. This marks a critical step toward achieving comprehensive waste management coverage in the panchayats.

PILOT WET WASTE COMPOSTING

Studies and internal audits on waste management consistently highlight that 60-70% of waste generated by individuals is wet waste, which can be easily composted into compost that are beneficial for plants and the environment. To address the challenge of managing large volumes of wet waste, a pilot composting initiative was launched in December at the Plastic Waste Management Unit in Siya.

A total of 557 kg of wet waste was deposited in specially designated composting pits for processing. To optimize the composting process and maintain the nitrogen-carbon balance, cocopeat and bio-enzymes were incorporated.

This pilot aims to provide a sustainable solution for wet waste management, creating high-quality compost that can be utilized for agricultural and gardening purposes. If successful, this model could be replicated across other locations to effectively manage wet waste and reduce its environmental impact.



ACHIEVEMENTS

- Signing of MoU with a Local Entrepreneur.
- Racee for Local dumpsite and wet waste processing unit.
- Waste collection started from two major properties in the uncatered area.
- Multiple local and district stakeholder meetings were conducted leading to enhancement in the operations.
- Pilot of wet waste composting started.
- Successful installation of all the IEC in both the panchayat's.
- Increase in the amount of Sale of recyclable.
- Data revisit to understand the increase or decrease in the number of units.

CHALLENGES

- Unable to start the campaign at JW Marriott.
- We have still not received any land for the inert waste disposal, dumping still continues infront of the MRF.
- Lack of ownership of panchayat's for Dry waste storage units installed by them.
- Dry waste storage units are a problem, they generate the maximum mixed waste.
- A large percentage of Residential are not handing over the waste to the collection vehicle.
- No proper solution for RDF.
- Panchayat do not show intrest to passing resolution for userfee collection.

TESTIMONIALS



Vidushi Thapliyal

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A few months ago, the Waste Warriors team organized a meeting in our community to discuss the important topic of menstruation. During the session, they introduced us to eco-friendly cloth pads and distributed them to participants.

After using these pads, I am excited to share my experience. The cloth pad is soft and breathable, providing great comfort throughout the day. Its absorbency is impressive, and I found it lighter compared to other pads I've used. Cleaning it is easy—it's simple to rinse and wash.

Overall, I am so glad I made the switch to these eco-friendly pads. Not only are they better for my health, but they also help me contribute to the well-being of our planet. Thank you to Waste Warriors for encouraging us to make this positive change



Ritesh Rawat

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For the past three years, I have been in charge of cleaning the Kempty and Kempty Fall market area in partnership with the Tehri district panchayat. Kempty and Kempty Fall, known for the world-famous Kempty Fall, hold a special place in my heart.

Over the past three months, I have had the privilege of working with Waste Warriors, an organization dedicated to transforming Kempty into a zero-waste tourist destination, supported by the MakeMyTrip Foundation. They are doing exceptional work throughout the area, and when I met their dedicated team, I knew I had to join their mission.

Since then, I have been working as a local entrepreneur with Waste Warriors, striving to make Kempty garbage-free. The experience has been immensely rewarding, and their innovative and inspiring approach continues to motivate me every day. It is an honor to be part of such a transformative initiative.



WAY FORWARD

- Formation of Swachhta Samiti in both the panchayat's.
- Completion of three campaigns EcoStay, JW Marriott and User Fees.
- Clean Up Drives.
- Onboarding 10% of uncatered area.
- Renewal of ZP agreement in March'25.
- Fund unlock from forest department for transportation.
- Implementation and collection of user fees in both the panchayat's.
- MoU signing between Local Entrepreneur and Gram Panchayat.
- Increase in SOR.
- Onboarding more residential to the collection vehicle.
- Improvement in segregation of waste.
- Stop dumping in front of Waste Bank, Khyarsi.
- Strengthening of monitoring and evaluation sheets.
- Allocation of Dumping land.
- Waste bank, khyarsi extension.
- Installation of safety fence at PWMU, Siya.
- Bailing to start at PWMU, siya.
- Twin Bins Installation.
- Conduct one large scale community engagement.
- Conduct one tourist engagement.
- Legacy waste dumpsite cleanup
- Trainings & Exposure visits for Green Workers
- Training & Capacity Building for External Stakeholders

* As the proposal is still under discussion way forward will also be updated post the discussion and finalization.

MEET THE TEAM!



Adison Stevenson
Sr. Project Manager



Ankita Kunwar
Project Manager

Operations



Mohammad Imran
Sr. Executive

Outreach



Geeta Dhyani
Associate



Ritika
Executive



Kiran Rawat
Executive



Kareena
Executive

ON GROUND PARTNERS

Zila Panchayat, Tehri Garhwal

Gram Panchayat, Siya

Gram Panchayat, Banglow Ki Kandi



WASTE WARRIORS

REDUCE RE-USE RECYCLE

Head Office Address:

Waste Warriors Society
136/2/2, Shivam Vihar,
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Thank You. Let's Discuss.



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