

# Bettahalasur Project

## 2023-24: Q3



Quarterly Report (Q3) : Oct - Dec 2023



A Project by TAICT



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## Executive Summary

The EcoGram Project, an initiative by The Anonymous Indian Charitable Trust (TAICT) and funded by Embassy REIT, commenced in July 2017 towards addressing issues of irresponsible disposal of garbage and depletion of soil and water in the Bettahalasur Panchayat in North Bangalore. The focus of the project is to create a model Gram Panchayat by building processes and infrastructure for sustainable decentralised waste management, soil quality, and water conservation in order to lay a strong foundation for any future growth. The project brings together community members, local governance and investors.

Year 6 ended with the successful implementation of solid waste management violation fines and penalties as per 'Karnataka Panchayat Raj (Management of Solid Waste) Model Bye-laws, 2020'. This included assisting the gram panchayat in creating a separate 'Water and Sanitation' bank account and creating the SWM fines circular, hiring a field coordinator specially for user fees and fines implementation on ground and setting up a process for fining violators.

Year 7 will be focussed on implementation of SWM user fees in order to bring additional income to partially cover operational expenses. Apart from user fees, the focus of TAICT will be to evaluate and implement steps to sustain the project financially for SWM. The project will have to also sustain the current operating standards which can be done by the formation of the 'Village Water and Sanitation Committee'. TAICT will explore various options to form this committee that can oversee the solid waste management operations in the future.

For community outreach, the project will continue to run the 'Threads of Life' skill development program for alumni of government schools in the Bettahalasur Gram Panchayat.



# Objectives and Outputs

## 1. End to end waste management that is ethical and sustainable

### Project Activities for 10 villages:

#### Operations

#	Activity	Date	Outcome/Impact
1	Weekly meetings continue with 20 Key Performance Indicators to monitor operations.	Once a Week	<ul style="list-style-type: none"><li>- Segregation at source is currently at <b>92%</b> for villages and <b>90%</b> for bulk generators</li><li>- Participation level is at <b>83%</b></li><li>- <b>85%</b> of QR codes scanned (issues with mobile phone)</li><li>- <b>81%</b> attendance of workers</li></ul>
2	Bettahalasur Gram Panchayat Received Gandhi Gram Puraskar Award	Oct 2nd	The Ministry of Rural Development and Panchayat Raj awarded Bettahalasur Grama Panchayat the Gandhi Grama Puraskar on October 2nd in recognition of the Grama Panchayat's successful implementation of state and federally sponsored programmes pertaining to solid waste management, drinking water, women's empowerment, health, and hygiene in the years 2022–2023.
3	DWCC Memorandum of Understanding renewed between Embassy and Bettahalasur, Meenakunte Grama Panchayats	Oct 5th Nov 30th	On August 20, 2021, Embassy, Bettahalasuru and Meenakunte Grama Panchayats signed a DWCC memorandum of agreement that was valid for three years. On September 20, 2023, it was renewed for another three years.
4	TAICT representative at Brand Bengaluru workshop	Oct 9th	Brand Bengaluru is an initiative by Hon' DCM DK Shivakumar. TAICT was invited on the day of the inauguration to submit suggestions on how to improve solid waste management in Bengaluru.
5	TAICT invited for the meeting with various SWM entities were arranged by the Rural Drinking and Panchayat Raj Commissioner in order to enhance sustainable SWM and empower SHG women involved in SWM.	Oct 16th Oct 17th	There were suggestions made to enhance IEC, strategic planning, capacity building, and waste processing. A one-year action plan has been created and presented to the Rural Drinking and Panchayat Raj Commissioner.
6	TAICT team participated in Wework Sustainable Summit	Oct 20th	The audience was introduced to sustainable solid waste management practices through the Ecogram stall in the event organised by Wework.
7	Internship by 6 Students from BMSIT	Oct 25th	Students from BMSIT, Mohammed Saim Shaikh, Nihal Gireesh, Sethunarayanan TS, Sagar B S, Janhavi V and Suhas Kini M, have done a comprehensive study about material recovery at Ecohub which helped us to analyse the efficiency of sorting. It was determined that the sorting efficiency can be improved drastically. TAICT is in the process of evaluating solutions for the same.



8	Compost distribution to Bettahalasur GP farmers from Manyata Tech Park	Nov 3rd	In order to test the compost, Manyata Tech Park delivered 80 bags of compost to farmers in the Bettahalasur Gram Panchayat villages. <ol style="list-style-type: none"><li>1. Windrow Composting at Ecohub- 15 bags</li><li>2. Biodiversity park at Tarahunise lake - 15 bags</li><li>3. Rajanna(Cauliflower farm)- 10 bags</li><li>4. Bagyamma(Dragon fruits Farm)- 10 bags</li><li>5. Dinesh(Guava farm) - 10 bags</li><li>6. Nanjundappa(Mulberry Farm)- 10 bags</li><li>7. Kempegowda(Pomegranate farm) - 10 bags</li></ol> The farmers gave positive feedback, and as a result, they have placed more orders for it.
9	Meeting with SWM experts to discuss tendering process for SWM operations	Nov 6th	Team met online with Mr Ram who is leading the SWM vertical for 'Clean Bengaluru' to understand the tendering process for SWM operations. The takeaway from the meeting was that the end-end operations for SWM would be better if handled by a single contractor per ward/GP.
10	Visited Ward 168 DWCC at Jayanagar(BBMP)	Nov 16th	To evaluate the operations, revenue and expenses of the DWCC. Mansoor Gous, a waste picker at ward 168 manages the dry waste collection and operations, by servicing 14,000 waste generators and sorts dry waste into 25-30 categories.
11	Received marshall permission letter from Bettahalasur Gram Panchayat. Resumed user fees collection	Oct-Dec	Obtained approval from Bettahalasur Gram Panchayat for a TAICT employee to impose fines on SWM violators on the Gram Panchayat's behalf. SWM user fees collection resumed and covered 2 villages
12	Visit to Gargeshwari GP, Mysore District	Dec 13th	Gargeshwari Gram Panchayat has successfully implemented solid waste management and is collecting flat fees of 50 and 100 rupees from houses and commercials with the assistance of a self-help group and elected representatives.
13	Visit to Vidyashilp University	Dec 12th	A new bulk generator approached us for solid waste management services. We visited the campus and instructed the management with the protocols. Service will begin in January 2024.
14	Door to Door awareness about User fees by Gram Panchayat	Dec 14th	The solid waste management service was suspended for four days due to misbehaviour in Sugatta village by former Gram Panchayat members during the user fee collection process. As a result, the Gram Panchayat addressed the issue as detailed below; <ol style="list-style-type: none"><li>1. PDO and members of the Gram Panchayat spoke with the former member and resolved the matter.</li><li>2. The president, PDO, and members of the Gram Panchayat distributed user fees pamphlets door-to-door at Sugatta.</li></ol>
15	Gram Panchayat gave a request letter to TAICT to resume the collection at Sugatta	Dec 14th	The solid waste management service was suspended for 4 days due to misbehaviour in Sugatta village by former GP members during the user fee collection process. GP resolved the problems and requested us to resume the SWM service.



Gandhi Puraskar to Bettahalasuru GP



TAICT Participated in Brand Bengaluru



MOU Renewal with Bettahalasur GP



Workshop conducted by RDPR



BMSIT Interns



Wework Summit



Meeting with SWM Experts



Visit to Ward 168 DWCC Jayanagara



User Fees Collection



Compost Given to Local Farmers



SWM User Fees Awareness at Sugatta



Visit to Gargeshwari Gram Panchayat Mysore District



Visit to Vidyashilp University

## Infrastructure

Activity	Date	Impact/Outcome
Fourth new Tata Ace Gold vehicle purchased for waste collection	Nov 22nd Nov 23rd	The fourth vehicle was rented and had several breakdown and maintenance problems. Hence, a new vehicle was purchased and registered for the collection of solid waste in Bettahalasur Gram Panchayat.



Tata Ace Gold Vehicle

## Event Waste Management

Event waste management involves educating the event's host about the gram panchayat rules, renting out drums and bags for waste and organising separate waste collection depending on the amount of waste generated.

Village	Number of Events	Wet Waste Quantity (kgs)	Dry Waste Quantity (kgs)	Reject Waste Quantity (kgs)	Mixed Waste Quantity (kgs)
	0	0	0	0	0
Bettahalasuru Z2	4	437	133	0	199
Tarahunise	1	680	31	0	125
<b>Grand Total</b>	<b>5</b>	<b>1117</b>	<b>164</b>	<b>0</b>	<b>324</b>



## Visual Cleanliness

Black spot clean up involves cleaning up only one spot and this is done by the collection team usually during collection itself. A clean up drive involves picking up litter from an entire stretch with the help of additional workers, panchayat staff and sometimes even residents or employees for their employee engagement activity.

Activity	Village	Number of Activities	Quantity of Waste Collected (kgs)
Blackspot Cleanup	Agrahara	1	42
	Bettahalasur zone1	3	196
	Bettahalasur zone2	2	76
	Bettahalasur zone3	8	221
	Narayanapura	2	127
	Nellukunte	3	49
	Papanahalli	1	42
	Suatta	1	19
	Suggatta	17	385
	Tarahunise	4	101
	Thimmasandra	27	643
Blackspot Cleanup Total		69	1901
Cleanup Drive	Bettahalasur	1	301
	Papanahalli	1	116
	Suggatta	1	226
	Tarahunise	1	232
Cleanup Drive Total		4	875
<b>Grand Total</b>		<b>73</b>	<b>2776</b>



Cleanup Drive at Bettahalasur



Plog Run by WeWork Employees at Tarahunise Village



Shopkeepers keeping their surrounding clean at Papanahalli

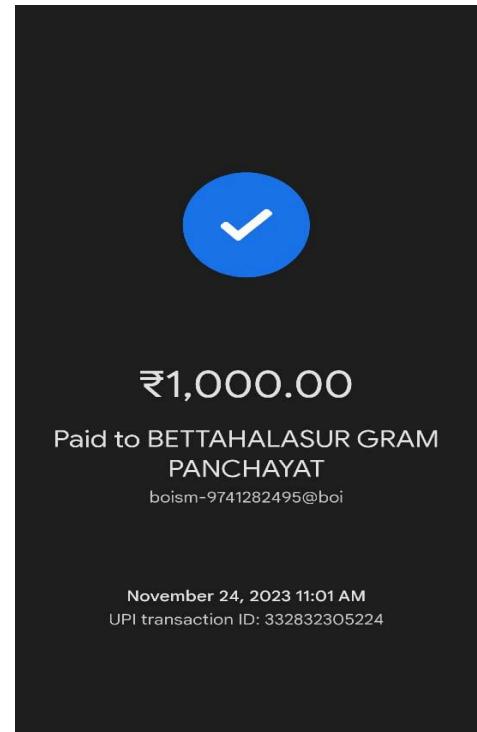
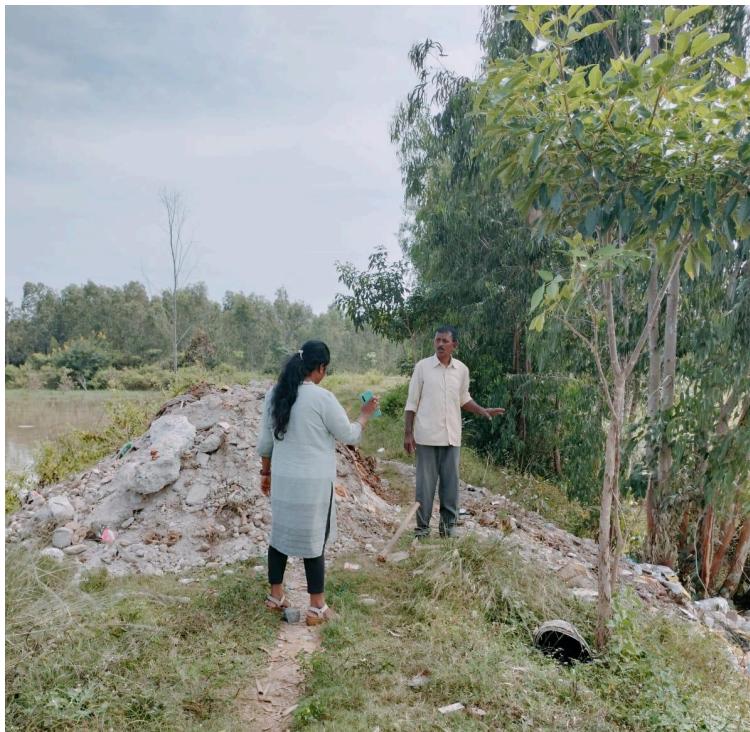


Cleanup Drive at Sugatta

## SWM Fines and Penalties

The authorised field coordinator assisted the gram panchayat in identifying and imposing penalties to SWM violators. The fine amount collected is deposited in the GP's 'Village Water and Sanitation' bank account.

Village Name	Amount Fined	Number of Violations
Kudhrugere	₹1,000	1
Nellukunte	₹1,000	1
Thimmasandra	₹6,000	2
<b>Grand Total</b>	<b>₹8,000</b>	<b>4</b>



Fine Imposed for dumping waste at Thimmasandra lake

## Outreach/ Education

#	Activity	Date and Location	Outcome/Impact
1	SWM workshop at MVIT	Dec 6th	On occasion of World Soil Day 2023 we conducted SWM workshop for <b>24 biotechnology students</b> at Sir M Visvesvaraya Institute of Technology
2	Trashonomics Workshop at Stonehill Government School	Dec 20st	<b>45 students</b> of 8th grade attended the Trashonomics workshop that was conducted in 2 sessions with hands-on activities. Session 1 covered the problems of irresponsible disposal of waste and waste segregation at source. Session 2 covered composting of organic waste, recyclable waste and how to reduce waste.
3	Trashonomics Workshop at Stonehill Government School	Dec 21st	<b>52 students</b> of 8th grade were taken to the EcoHub which gave them a good picture of what happens to their waste once it leaves their homes.



Awareness Workshop at MVIT College



Trashonomics Workshop for Stonehill Government School

#### Feedback/Testimonials from Residents of EcoGram

[https://youtube.com/playlist?list=PLrgMHlOPcA7wNh\\_htyBE2ExrwobcTJ4mj](https://youtube.com/playlist?list=PLrgMHlOPcA7wNh_htyBE2ExrwobcTJ4mj)



## Visitors to the EcoGram Project

#	Visitor	Date	Feedback
1	Mr Kantharaju, Zilla Panchayat Chief Executive Officer; Ms Apporva, Taluk Panchayat Executive Officer and other officers from ZP and TP	Oct 4th	"Maintenance of the unit is done in a very scientific way. Can be taken as a model for implementation in other Gram Panchayats of the district".
2	Gram Panchayat representatives from Pudukkottai District, Tamil Nadu	Oct 31st	"It was a very good experience. We got to know about collection and processing after we came here. We got to know how to save my village from garbage and we are thankful for the team".
3	IAS and IPS officers from Bihar, Visakhapatnam, Gujarat and Indian Institute Of Science team	Nov 7th	6 officers visited the Ecohub. Appreciated the work and they were impressed to see a model Gram Panchayat.
4	CSR community outreach head from Athaang Tollways Pvt Ltd	Nov 8th	Dr Sandeep Sohan- "Nicely managed with a technology driven approach. The model is scalable and replicable at every level".
5	Gated community president and vice president from Retreat	Nov 8th	Impressed about the management at the Dry waste Collection Center and service.
6	Sobitha Anna, advisor at TAICT	Nov 8th	"Great project that is working towards a clean and green environment."
7	Mr Anil Gokaran from ProEarth, Pune	Nov 17th	"Improved technology and a great place to work for waste workers. Lots to learn on collection. Thank you for sharing experience"
8	IAS officers from Arunachal Pradesh, Tripura, Goa, Maharashtra and Himachal Pradesh	Nov 21st	22 officers visited the Ecohub, Tarahunise lake and the Ecogram store. "Amazed to see the wonderful and ongoing Project".
9	Municipal members from Malavalli, Mandya district and CDD India team	Nov 24th	24 people visited. Impressed with the whole SWM values and planning.
10	Mr Hartwig, Mr Pravin and Mr Vivek from Daimler Truck	Dec 20th	Impressed with the project and they are hoping to guide TAICT to improve efficiencies.
11	State officers from Chennai, Tamil Nadu	Dec 21st	32 state officers visited. "Excellently managed unit with dedicated service for a better environment"
12	Students from Stonehill Government Higher Primary School	Dec 21st	52 students visited. "The best waste segregation is happening and we all join our hands for the clean environment".
13	Gram Panchayat members and staff from Nagara Gram Panchayat, KA	Dec 25th	15 people visited. "Waste management is happening in a scientific way and we have heard that people's cooperation is good, which is the most important. We will take away the education we learnt today at Ecohub and implement it in our Gram Panchayat".

### Visitors to EcoGram



Zilla Panchayat Chief Executive Officer



Gram Panchayat representatives from Pudukkottai District, Tamil Nadu



IAS & IPS Officers from Bihar, Visakhapatnam, Gujarat and Indian Institute of Science



Dr Sandeep from ADT



President & Vice President from Retreat



IAS officers from Arunachal Pradesh, Tripur, Goa, Maharashtra and Himachal Prades



Municipal members from Malavalli, Mandya district and CDD India team



## Output

### 1.1 Number of Waste Generators

Village	WG <sup>s</sup>	Bulk Generators - Residential	HH	Bulk Generators - Institutions	Footfall (approx daily)
Agrahara	144	Utopia	30	Stonehill International School	500
Bettahalasuru	332	Utopia Phase 3	11	Stonehill Government School	280
Bettahalasuru-2	556	After The Rain	37	Embassy Int. Riding School	50
Bettahalasuru-3	325	Lubimaya	15	Gurukula Vidyalaya Kendriya	850
Gadenhalli	191	ATR Labour Shed	500	Kreeda Darshini	100
Kudhrugere	267	Embassy Boulevard	120	Centre for Sports Excellence	75
Narayanapura	197			Phoenix Bar & Restaurant	100
Nellukunte	596			AG Cafe	100
Papanahalli	79			Jubilant Autoworks Pvt Ltd	70
Sugatta	600			Rakum School for the Blind	200
Tarahunise	458			Play Pet Boarding	25
Thimmasandra	285			Kreede Darshini 2	50
				CSE Hostel	60
				Strate Design College	20
				Strate Design Hostel	90
				Fortune Hotel	60
				Deccan Sports Club	50
				Balaji PG	55
				Heera Farm	30
				Olde Bangalore Resort	100
				Rare Sky Rental Villa	15
				Next Chapter Restaurant	40
				Sunil Caterers	400
<b>Total WGs in Villages</b>	<b>4030</b>	<b>Total BG HHs</b>	<b>713</b>		
<b>Total WGs serviced in Y7Q3</b>				<b>4743</b>	



## 1.2 Weight of waste collected

Source	Wet (kgs)			Dry+E-Waste (kgs)			Sanitary + Reject(kgs)			Mixed Waste (kgs)		
	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec
Households and Bulk Generators	55276	50932	47566	35922	34866	31455	3332	3461	3065	7489	6753	5852
Total Y7Q3	1,53,774 kgs			1,02,243 kgs			9,858 kgs			* 20,094 kgs		

\*Includes waste from community bins and clean up drives

## 1.3 Income from segregated dry waste

Month	Total Dry Waste Collected	Total Dry Waste Sold	Income Earned (Rs)*	Percentage of Dry Waste Recovered
Oct	35,922	16,608	₹1,20,234	46%**
Nov	34,866	11,733	₹90,977	34%**
Dec	31,455	28,514	₹2,25,117	91%**

\* The income earned may not be reflected in the actual balance as the vendors pay late and in instalments.

\*\*Baled dry waste stored and sold at the end of the quarter. 16,800kgs of textile waste sent to a landfill for a cost of ~ Rs 2/kg

## 1.4 Dry Waste Categories

Waste Type	Weighed quantity (kg)	Average Rate (Rs/kg)
Aluminium Foil	131.00	₹40.00
Aluminium Tins	239.00	₹90.00
Carton Boxes	5,220.00	₹10.90
Textile Waste (to landfill)	16,800.00	-₹2.14
Coconut Shells	1,348.00	₹5.00
Colour Paper	19,180.00	₹6.25
Dry Waste Rejects (to landfill)	21,021.00	-₹6.00
Foam	173.00	₹16.00
Footwear/ Belts/ Bags	2,006.00	-₹3.00
Glass Bottles	7,119.00	₹2.75
Good Textile Waste	305.00	₹0.00



LD Cover	889.00	₹16.00
LVP (Road Waste/ Super)	9,118.00	₹4.50
Metal MS Light	1,515.00	₹19.00
MLP(Laminates)	2,698.00	₹0.00
PET Bottles	1,799.00	₹26.75
Plastic Articles (Phugga)	3,139.00	₹19.00
Plastic LDPE ( Kadak)	1,050.00	₹5.00
Plastic Milk Bags	387.00	₹15.00
Thermocol	222.00	₹20.00
White Paper	895.00	₹14.00
Woven Bags(HDPE Bags)	3,086.00	₹4.00

#### Comparison across Y7Q2 and Y7Q3

	Y7Q2	Y7Q3	%Increase from previous quarter (current-prev)/prev
Number of Waste Generators	4596	4743	3.19%
Total Waste Collected	2,90,346	2,85,969	-1.5%
Total Wet Waste	1,55,822	1,53,774	-1.3%
Total Dry Waste + Electronic Waste	1,02,741	1,02,243	*-0.5%
Level of Segregation [(Total-Mixed)/Total*100)]	93%	92%	-1%
Total Dry Waste Sold	49,210	56,855	16%
Percentage of dry waste sold against dry waste collected	48%	56%	8%
Income from Waste (see Summary of Expenses)	₹7,57,609	₹7,97,769	5.3%
Income recovery vs Operational Expenditure (WWM OpEx, OpEx Labour, OpEx Other)	26.08%	28.87%	2.79%
Operational Expenditure per Waste Generator per Month [(WWM OpEx + OpEx Labour + OpEx Other - Income from Waste)/# of WGs]	₹156.00	₹138.11	-₹17.89

\*Scrap dealers in the area buying high value dry waste



## Ongoing Challenges and Solutions

Challenges	Solutions
Currently sanitary waste is being transported to a government approved landfill. However, the preferred method is to incinerate this waste. Currently, the 2 main biomedical waste facilities are not accepting our sanitary waste.	To continue to assess incinerators and biomedical vendors. Also plan to assess biodegradable pads.
Organic waste is currently being processed in trenches at the EcoHub since there was no shelter to protect the compost piles from inclement weather.	To start processing wet waste in the newly constructed shed. However, if the wet waste is not shredded, it will take longer to decompose. The shredder room is to be set up by the ZP. Shredder room construction has begun and ZP is looking to complete it by the end of January 2024.
Textile waste has become a big challenge as cement kilns as far as we know have stopped accepting this material for co-processing.	Only about 10-15% of the overall textile waste is good quality for recycling and will continue to be sent to Saahas Textile Recovery Facility. The rest of the textile waste still requires a solution. We explored a separate collection of textile waste but unfortunately, residents were not willing to give it separately. We will continue to educate residents requesting for clean textile waste.
The slaughterhouse waste has become a challenge. We had tried previously to partner with another vendor. Unfortunately, that was not viable.	Slaughterhouse processing at the Ecohup will be assessed possibly through deep trench composting.
Scrap dealers purchase high value waste from residents which is causing a reduction of income at the dry waste collection center (DWCC). Hence, a survey was conducted in the area to assess the scrap dealer situation. It was found that <b>5 scrap dealers</b> have set up shop in the gram panchayat. They have been collecting high value dry waste from the customers. However, they accumulate reject waste as well which they are currently dumping or burning.	To tackle these problems two solutions would have to be implemented: <ol style="list-style-type: none"><li>1. Collection of reject waste from the scrap dealers and charging them a user fee as per the bylaws.</li><li>2. A rebate system could be designed for the project to give residents an option to deposit high value waste at the DWCC.</li></ol>
Collecting of SWM user fees had halted temporarily due to issues with a few ex-members. The other challenge is not having a POS system to automatically generate invoices on the spot for user fees.	The following steps will be taken to continue user fee collection: <ol style="list-style-type: none"><li>1. Door to Door awareness will be given in all the villages with the Gram Panchayat staff</li><li>2. Continue to meet with Rural Development Panchayat Raj Commissioner to upgrade the government's POS machine for a separate login to the agency specifically to collect solid waste management fee.</li></ol>

## 2. Water conservation and Wastewater management

### Lake Activities

#	Activity	Date	Outcome/Impact
1	Weekly watering of saplings	Oct-Dec	Tree saplings and Vetiver grass are watered regularly. Saplings are thriving adding to the biodiversity. Vetiver grass is growing, strengthening the lake bund.
2	Regular removal of invasive plant species around the Vetiver grass in Tarahunise and Thimmasandra lakes	Oct-Dec	As part of regular maintenance, parthenium plants were removed from areas near the Vetiver saplings. This will help the Vetiver saplings thrive.
3	Regular pick up of waste from lake community bins and cleanup around Tarahunise and Thimmasandra lakes	Oct-Dec	The continued effort of litter removal will maintain the visual cleanliness and prevent the lake from being polluted with solid waste.



Regular Maintenance at Tarahunise and Thimmasandra Lakes

### 3. Threads of Life

#### Activities

#	Activity	Date	Outcome/Impact
1	Syllabus covered in Q3	Oct-Dec	The following topics were covered this quarter: 1. Salwar 2. Pallazo and Pushpak Pant 3. Saree Petticoat 4. Plain Blouse 5. Prince cut and Boat neck blouse 6. Collar neck blouse
2	Healthy Lifestyle workshop by Shoba from Yuvalok	Oct 10th	20 students participated in the workshop and learned about healthy lifestyle habits.
3	Plog Run with Wework employees	Oct 13th	18 TOL students along with WeWork employees participated in the workshop and 232 kgs of waste collected in total in Tarahunise village.
4	Solid Waste Management Workshop and visit to Ecohub	Oct 18th	20 students participated in the workshop and learnt about problems of irresponsible disposal of waste, waste segregation at source, composting of organic waste, recyclable waste and how to reduce waste.
5	Saree pre-pleating workshop by Sara Fashion Academy	Nov 18th	20 students participated in the workshop and learnt saree pre-pleating. Pre-pleated sarees are now in demand and this skill will enable the students to earn an additional income.



Saree pre-pleating workshop by Sara Fashion Academy



Healthy Lifestyle workshop by Shoba



Meeting with TOL students



Computer Skill Development Workshop by WeWork Employee



SWM workshop and visit to Ecohub by TOL Students from all 3 Centers

### Threads of Life Syllabus Covered in Q3





## Work Plan for Year 7 Q4

Planned Activity	Intended Impact	Details
Continue collection of waste management user fees	To make the SWM vertical of the project financially sustainable	Continue to meet with Rural Development Panchayat Raj Commissioner to upgrade the government's POS machine for a separate login to the agency specifically to collect solid waste management fee.
Assist in formation of Steering Committee once the user fees have been implemented	The main role of the Steering Committee is to ensure the continuation of the operations of EcoGram	<p>The Steering Committee will be a registered group of concerned residents of the Gram Panchayat who will be committed to drive the vision of the EcoGram Project forward.</p> <p>This will include but not be limited to:</p> <ul style="list-style-type: none"><li>- Financing of the SWM operations through user fees and grants</li><li>- Enforcement of SWM Rules through penalties and fines</li><li>- Overall Monitoring and Evaluation of the SWM operations</li><li>- Monitoring and Evaluation of other water and soil related projects</li></ul>
Start windrow composting	Organic waste to be composted in windrows and sold to farmers at a subsidised cost. This will be an additional income for the OpEx.	Currently all organic waste is composted in trenches and hence cannot be retrieved to be sold to farmers. Once the shredder room and wet waste shed is ready, the organic waste can be composted in windrows and sold to farmers. Other techniques like vermicomposting can also be set up in 1-2 tanks to improve compost quality.
Set up entrance boards	Will allow visitors to recognise that they are entering a litter free zone.	Currently, visitors to the GP are dumping and littering. Boards can be set up at entrances educating visitors. TAICT will request the GP to set up these boards at 4-5 locations.
Trashonomics workshops for schools	Students are empowered with the essential life skill of waste management	Solid waste and Wastewater workshops to be conducted at all government schools and private schools in the project area for grade 8 students.
Conduct a one month pilot of processing Meenakunte gram panchayat's dry waste	This pilot is to assess if additional income can be brought in for Ecohub operations.	<ol style="list-style-type: none"><li>1. Letter to be drafted and signed by the Meenakunte GP to agree for the one month pilot to assess the quality and quantity of the dry waste coming into Ecohub after which a processing cost will be determined.</li><li>2. If the Meenakunte GP agrees the pilot project can commence from February 1st.</li></ol>
Conduct graduation ceremony for 'Threads of Life' students	Students will graduate and have an option of purchasing a sewing machine after which they can start their own boutique.	<ol style="list-style-type: none"><li>1. Trainer to conduct a test to assess the students.</li><li>2. Students who pass the test will be eligible for graduation.</li><li>3. Students will have an option of purchasing sewing machines at a subsidised rate of 50%.</li><li>4. Plan for the graduation ceremony to be held at the end of January.</li></ol>



# Summary of Expenses

Oct - Dec 2023

Summary	Expenditure	Income	%Percentage
Community Engagement: Threads of Life	₹79,848.00	₹0.00	1.91%
Community Engagement: EcoGram Shakthi	₹0.00	₹0.00	0.00%
Awareness: Water	₹0.00	₹0.00	0.00%
Awareness: Waste	₹1,240.00	₹0.00	0.03%
Hardware + Other CapEx	₹7,35,480.00	₹11,180.00	17.58%
Project Management and Implementation	₹6,04,939.36	₹0.00	14.46%
Wet Waste Management OpEx	₹1,38,847.00	₹0.00	3.32%
OpEx Labour	₹22,30,510.00	₹0.00	53.30%
OpEx Other	₹3,93,641.74	₹0.00	9.41%
BG Income		₹3,50,066.00	
Dry Waste Income		₹4,47,703.00	
Wet Waste Income		₹0.00	
<b>Y7Q3 Total</b>	<b>₹41,84,506.10</b>	<b>₹8,08,949.00</b>	
Projected Budget	₹44,45,303.00		
Balance from Y7Q2	₹3,17,353.45		
Embassy REIT Funds for Q3	₹25,71,000.00		
ANZ Funds for Q3	₹12,50,000.00		
1st Tranche of WeWork Funds	₹11,96,995.00	Y7Q3 OpEx	₹27,62,998.74
<b>Y7Q3 Balance</b>	<b>₹19,59,791.35</b>	%Recovery of OpEx from Income	28.87%