

ANNUAL REPORT 2022-23



www.saahas.org
info@saahas.org

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FROM THE CEO'S DESK

If the defining emotion of 2021-22 was gratitude, gratitude towards everyone who helped us stay afloat during the difficult phase of COVID, the emotion that defined 2022-23 for us was revival. The year was all about bouncing back, renewing our vigour to make the world a better place. The revival was marked by three overarching themes that guided our work: People, Diversity and Scale.

The most important asset of any organization are the People that are connected with it. As James Collins has stressed in his book Good to Great, first Who, then What – get the right people on the bus. In the FY2022-23, not only did we work on improving our HR practices to provide a vibrant and enriching work environment for our teams, we also provided learning opportunities to them. Along with building the capacities of our internal team members, we also collaborated with sector experts to enhance the impact of our work. The success of these efforts was apparent in the results of the employee engagement survey that was conducted through an external expert.

Diversifying the nature of our interventions was a key component of our strategy for 2022-23. I am happy that in addition to the IEC/BCC (Information, Education, Communication / Behaviour Change Communication), capacity building and handholding support that we normally carry out, we could work on a host of different projects, ranging from Circular Economy modules for schools, decentralized and distributed biogas systems, promotion of home and community composting, working on new waste streams like construction & demolition waste, new locations like railway stations, livelihood interventions for SHGs (Self-Help Groups), and projects around survey and assessment. These diverse interventions have improved our knowledge of the sector and also enhanced our impact. By garnering funds for organization development like the GROW funds, and through partnerships with other non-profits, we were also successful in diversifying our funding portfolio.

The maturity of an intervention is seen in its ability to be replicated and scaled up. Based on the pilots we had carried out in the earlier years, in FY2022-23 we were able to demonstrate Scale in our urban and rural interventions. In rural Karnataka, we could expand our reach to 15 districts of the state covering about 5% of the Panchayats. And in Bengaluru, Gurugram and Trichy we could reach out to a sizable portion of the city's population. By showing impact at scale, we have successfully optimized the output per unit resource, both in terms of personnel and funds.

I am grateful to all our well-wishers, funding partners, institutions, partner non-profits, technology providers, Government officials and members of the community for the trust you have placed in us. As we enter another year of our journey, we hope to add more aspects of the circular economy to our work and with your support lead India towards a goal where nothing is waste!

ARCHANA TRIPATHI

CEO

ABOUT SAAHAS

Saahas is a not-for-profit organization registered under the Karnataka Societies Registration Act 1960, actively involved in working on solid waste management based on principles of circular economy since 2001. Our commitment towards building Zero Waste Communities is unflinching. We are devoted to finding and implementing new solutions to the ever-growing problems related to the management of municipal solid waste. We work with all the stakeholders like Governments, waste generators, waste workers, solution providers, recyclers, academic institutes, and corporates to help build zero waste communities. In 2013, Saahas Waste Management Pvt. Ltd. (<https://saahaszerowaste.com/>), a socio-environmental enterprise also known as Saahas Zero Waste, branched out of the non-profit Saahas with an aim to provide end-to-end waste management services based on the principles of circular economy. Both organizations exist as independent entities working towards holistic solid waste management and circular economy.

OUR VISION

Enabling India to be a leading Circular economy where ***nothing is waste***

OUR MISSION

- Pilot innovative resource management programs
- Collaborate closely with communities, administrators, businesses and law makers
- Evolve next practices for adoption of Circular Economy

STRATEGIC OBJECTIVES

Develop solutions to address key challenges and long-term sustainability of Solid Waste Management for different geographies, communities & waste streams. Work out detailed implementation guidelines (technical, financial & process) to drive replication.

Work on changing mindset where waste is looked at as a resource to be brought back in our lives for a sustainable world

To improve propagation & adoption of solutions, by becoming a Thought Leader in Circular Economy space, to have high recall especially among decision makers such as Government; Policy makers, Think Tanks and Corporate Sector

Generate safe, dignified livelihoods through CE based interventions and formalization/social inclusion of workers in waste

Evolve and showcase Circular Economy concepts through programs around reuse, reduce, repair, promoting close loop recycling, servitization, asset lease and rental business models and become a respected organization in this space.

To become a great organization to be associated with for Partners and for employees by being highly ethical, accountable with a vibrant and fulfilling work culture.

SUMMARY OF FY 2022-23

Our focus in FY 2022-23 was on scaling up our urban and rural interventions to achieve greater impact per unit resource. We were able to achieve better delivery efficiency in both urban and rural projects, measured against both funding and personnel deployed. We were also able to expand our impact and reach through collaborations and partnerships with other organizations. We expanded our rural portfolio and significantly increased our presence in rural Karnataka. We supported the operationalization of two first of their kind rural Material Recovery Facilities in Karnataka and trained women Self-Help Groups to take up operations of Solid Waste Management (SWM) in the villages.

The year also saw the launch of new initiatives where the focus was on improving decentralized processing of wet waste by promotion of home composting and setting up distributed biogas system, waste minimization through promotion of sustainable menstruation

and textile reuse practices, and setting up of ArthShala, a Learning Centre for solid waste management.

In addition to deepening our presence in Bengaluru through the projects on large-scale source segregation awareness, construction & demolition waste, Reduce-Reuse-Recycle Hubs and working in low-middle income areas, we also diversified our presence in Gurugram through our work in building a model ward, working in an urban village, setting up distributed biogas system, carrying out awareness and collection of e-waste and supporting waste workers through trainings and provision of infrastructure.

We complemented the efforts of partners like FICCI and IIM Udaipur by participating in development of circular economy framework for FMCGs and exploring circularity in the automobile sector.



GHG EMISSIONS
REDUCED

49,460T
of CO₂e



WOMEN
SUPPORTED VIA
SUSTAINABLE
MENSTRUATION
INTERVENTIONS

1,200



TOTAL WASTE
INFLUENCED

134.83 TPD



POPULATION IN
PROJECT
COVERAGE AREAS

22.05L



LIVELIHOODS
GENERATED

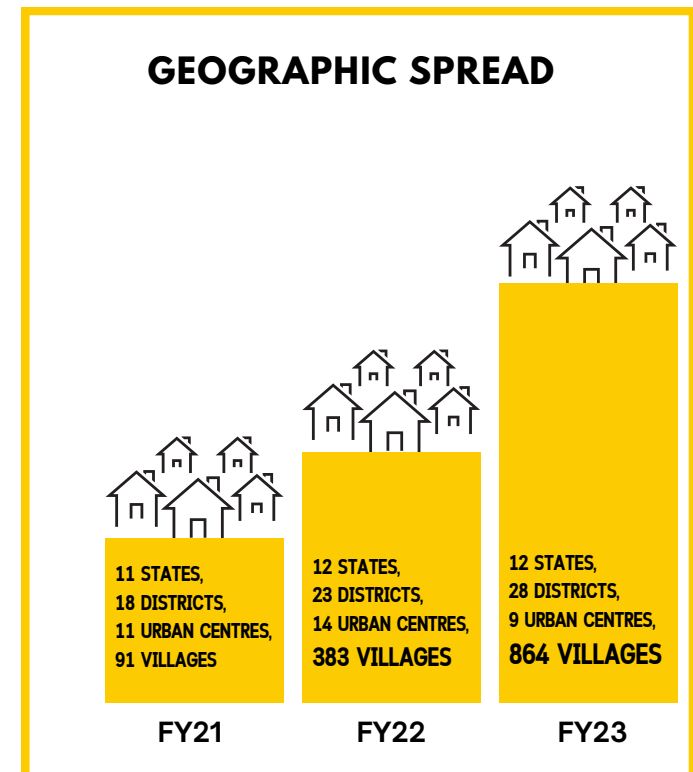
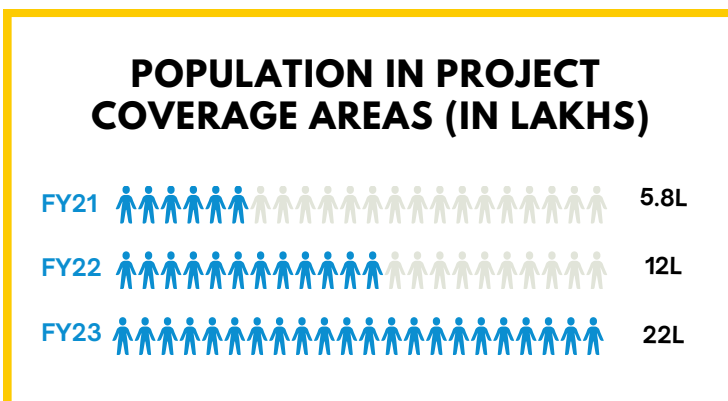
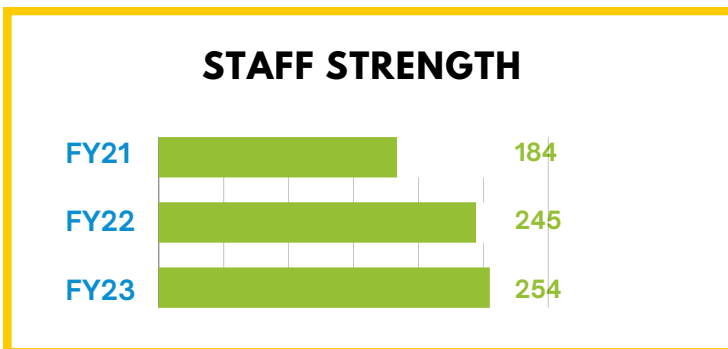
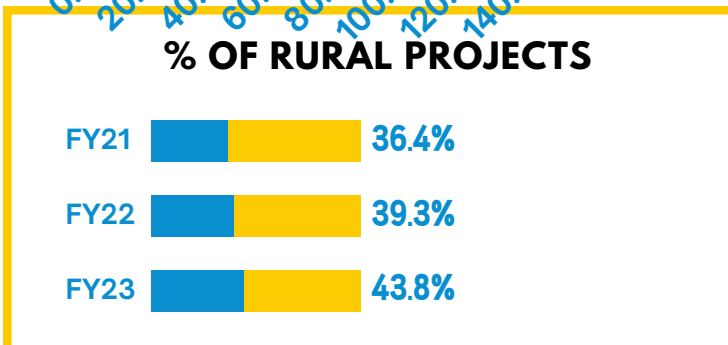
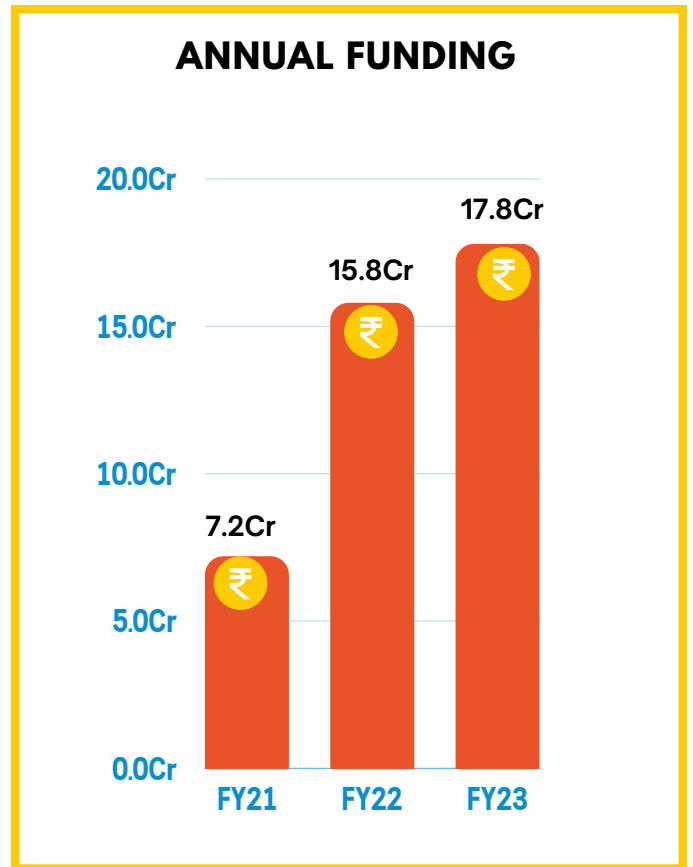
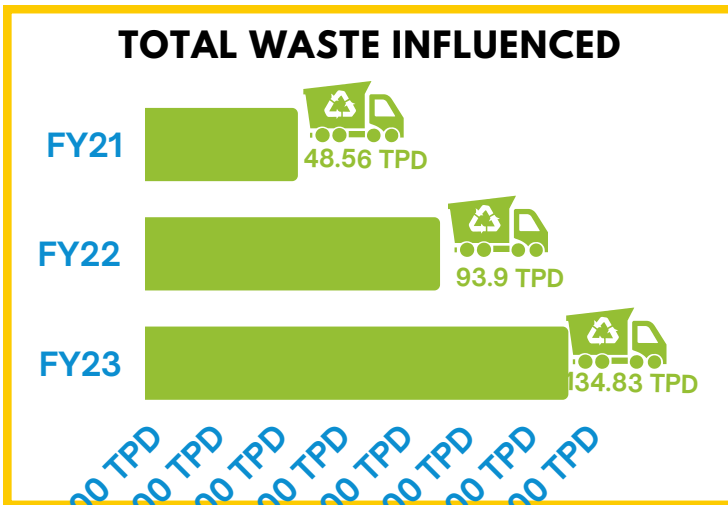
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DECENTRALIZED
UNITS SET UP/
OPERATIONALIZED

59

The dashboard for the year 2022-23, viewed alongside the impact numbers of the previous two financial years bears witness to our enhanced impact and improved efficiency



SDGS IMPACTED

3 GOOD HEALTH AND WELL-BEING



1200+ women converted to us sustainable menstruation products, **30** wash stations installed, **1000** hygiene kits distributed

5 GENDER EQUALITY



12 out of 20 Managers are **women**

6 CLEAN WATER AND SANITATION



30 wash stations installed, **1000** hygiene kits distributed; **7** water bodies reclaimed

7 AFFORDABLE AND CLEAN ENERGY



Biogas generation from food waste of **6.8TPD** enabled

11 SUSTAINABLE CITIES AND COMMUNITIES



Enabled source segregation of **47,352MT** of waste; **10,096MT** of **dry waste** sent for recycling, **25,486MT** of **wet waste** processed

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



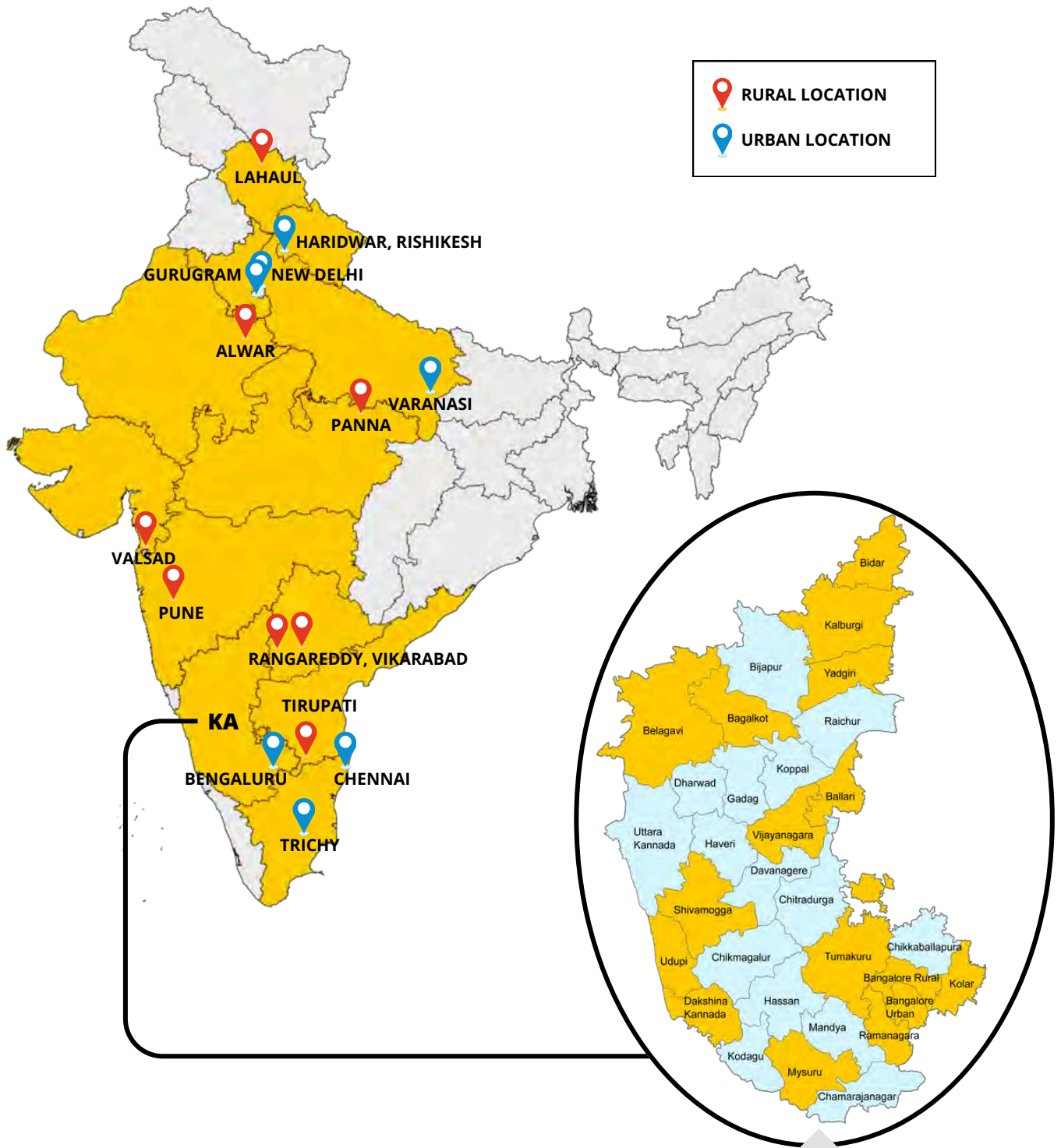
78.62MT waste reduced, **10,096MT** of dry waste sent for recycling, **25,486MT** wet waste processed;
22.05 Lakh People reached out to for awareness on sustainable development and lifestyles in harmony with nature

13 CLIMATE ACTION



195 GPs and 9 ULBs supported
Total CO2e emissions reduced in the year : **49,460 Tonnes**

OUR GEOGRAPHIC PRESENCE



COVERING 5% OF TOTAL GRAM PANCHAYATS IN KARNATAKA STATE, IN 15 OUT OF 31 DISTRICTS

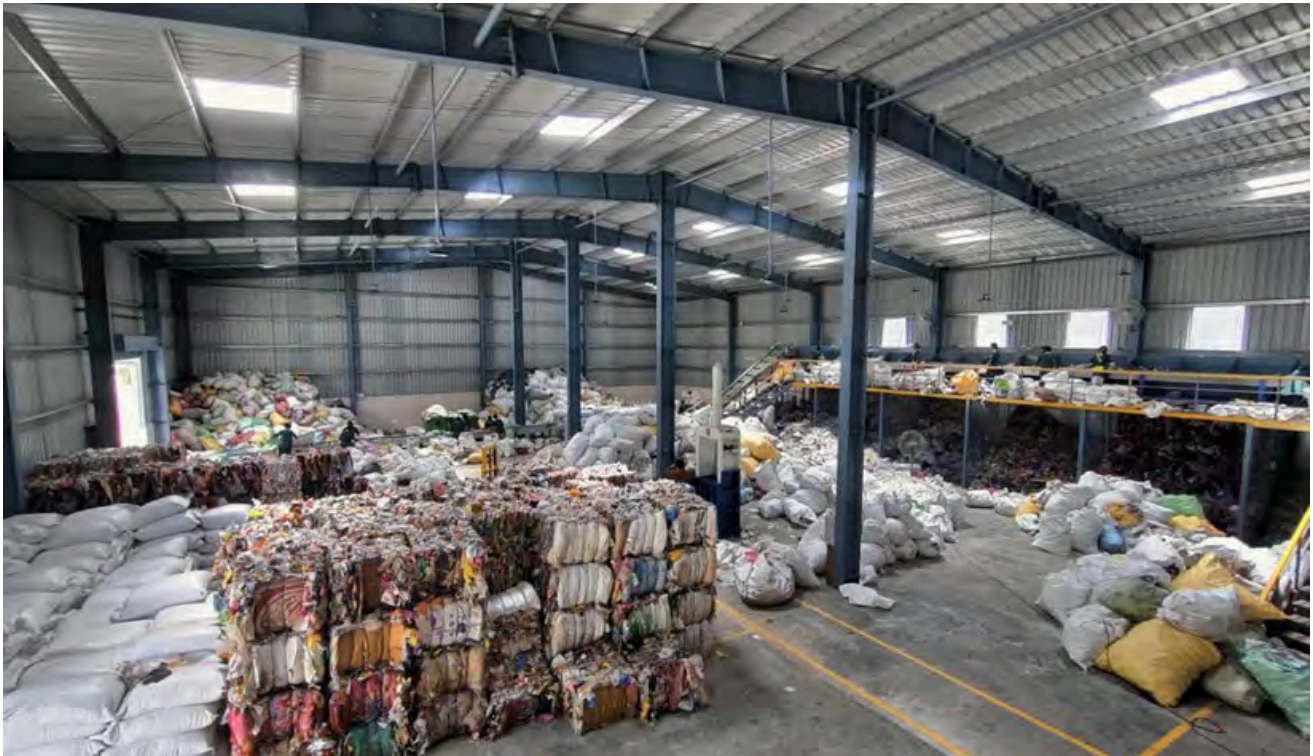
BENGALURU RURAL, BENGALURU URBAN, BALLARI, BELAGAVI, DAKSHINA KANNADA, RAMANAGARA, KALABURGI, SHIVAMOGGA, UDUPI, VIJAYANAGARA, MYSURU, BIDAR, BAGALAKOTE, TUMAKURU, KOLAR



OUR WORK



NOTABLE MENTIONS



SUPPORT FIRST RURAL MRF IN UDUPI DISTRICT, KARNATAKA

We are proud to have played a part in the setting up and functioning of the first rural MRF (Material Recovery Facility) that has been established in Udupi district of Karnataka. This facility has been operational since April 2022 and is being operated by Mangala Resource Management Pvt. Ltd. Another MRF in Dakshina Kannada was inaugurated in January 2023, and two more are being set up in Ramanagara and Ballari districts. These MRFs have been set up by the Government of Karnataka to improve the resource recovery from dry waste in the rural areas of Karnataka.

As part of our project Paripurna, which is being supported by the HCL Grant of the HCL Foundation, Saahas has provided equipment support to the MRFs and we are hand holding the Gram Panchayats in the districts to set up segregated waste collection systems which is

ensuring that the required quantities of dry waste reach the MRF. In FY23, we worked in 97 Gram Panchayats (GPs) in the 4 districts, covering 1,68,363 households and ensured that dry waste from the Panchayats around the Udupi and Dakshina Kannada are routed to the MRFs



ZERO-WASTE RAILWAY STATION MODEL AT VARANASI CANTT RAILWAY STATION



This was a first of its kind intervention for us, as we had never worked on source segregation and streamlining waste collection at a public place like a railway station. Through this intervention, where Saahas is working in partnership with GIZ, we have trained the staff working at the Varanasi Cantonment Railway Station, worked with the vendors on the platform to ensure the waste generated at their shops is source segregated and worked with the waste collection staff to ensure that the collection system is streamlined to ensure source segregated waste reaches the processing facilities. The Northern Railways authorities are setting up a waste management centre which will have composting tanks and a Material Recovery Facility.

The entire process is being documented and will act as a guide to create more zero-waste railway stations.



DEPARTURE			
T.No.	Train Name	Time	PF
12168	Banaras Mumbai LT	10:35	1
19045	Tapti Ganga Express	10:50	8
15018	Kashi Express	11:20	5
15159	Sarnath Express	12:30	5
12237	Begampura Express	12:40	9
19091	Bandra Terminus Go	12:50	2
15017	Kashi Express	13:10	5
12791	Secundrabad Danap	13:40	2

LOW-CARBON PROCESSING OF WET WASTE

A. BHOOMITRA: Promoting home composting

Home composting is the most decentralized form of managing our wet waste and can give immense satisfaction to the person practicing it. While improving the soil quality by giving back to nature what we have taken from it, home composting also reduces the collection burden on municipal collection systems and improves source segregation levels. The biggest barriers to home composting have been that the practitioners need handholding in the initial composting cycles to get the confidence to continue the practice.

Through the BhooMitra project, we were able to reach out to a large part of South Bengaluru and enabled adoption of home composting by 335 households. 5 communities also adopted on-site or community composting and were able to continue the process through support and encouragement from our team. This resulted in diversion of 0.9MT of wet waste from landfills per day.



B. BIOGAS SOLUTIONS

In FY23, we demonstrated multiple solutions involving conversion of wet waste into biogas. In Gurugram we helped set up a 2TPD distributed hub & spoke biogas system where the remote units (pre-digesters) were placed in campuses of residential societies and the central digester is placed at a site provided by Municipal Corporation of Gurugram. The biogas produced is converted into electricity which is used at the central site itself. The site also hosts a composting unit and a MRF.

In Bengaluru, we supported the capacity enhancement of a decentralized biogas system from 4TPD to 8.5TPD and demonstrated local closing of the loop by diverting waste from the low-middle income communities near the unit to the biogas plant. The gas generated is fed to a nearby restaurant thus showcasing a commercially viable model involving wet waste. In Chennai, a 300 kg per day biogas unit was set up at EcoKitchen, which is run by a women's collective and provides catering services to Corporates. The biodegradable waste from the kitchen is fed to the biogas plant and the gas generated is used for cooking in the same premises, saving the expenses towards LPG cylinders.

These biogas solutions demonstrate viable options for decentralized wet waste processing where the gas generated can be used locally resulting in low-carbon waste processing and savings in expenses. In the next FY, we plan to set up biogas plants in campuses of educational institutes where the gas can be used locally for cooking in the canteens, thereby closing the loop of wet waste.



ECOGRAM – CENTRE FOR SUSTAINABLE SOLUTIONS

DECENTRALIZED COMMUNITY WASTE PROCESSING CENTRE, GURUGRAM

To showcase how waste can be managed in a decentralized manner, EcoGram, a community waste processing centre has been set up in Gurugram. This centre has been set up by Saahas in partnership with Municipal Corporation of Gurugram and with funding support by **Hyundai Motor India Ltd.** EcoGram has the following components:

- **5TPD Material Recovery Facility** to process dry waste
- **2TPD biogas plant** which can take in waste from distributed remotely place pre-digesters too.
- **1TPD Composting unit**

This is the first integrated centre in Gurugram which has functional processing setups for different waste categories. EcoGram along with EarthShala (a learning centre located in the same

premises) will act as the learning hub for solid waste management in Gurugram and will play a catalytic role in propagating knowledge about resource recovery-based models for solid waste management to the different stakeholders in the ecosystem.



ARTHSHALA - A UNIQUE SPACE FOR EXPERIENTIAL LEARNING



अर्थSHALA is a learning centre which has been set up with the funding support of **Signode India**.

It is a space created at the EcoGram for people (citizens, students, RWAs, officials) to understand **circular economy**, sustainable living and solid waste management. **अर्थ** signifies "Earth" while **Shala** is from "pathshala"- a place for learning. Thus, it is a dedicated space for exploring and understanding the Earth and the Environment.

It has an open air theatre surrounded by display boards with messaging about different aspects of solid waste management on principles of circular economy. As it is situated inside EcoGram, which has functional composting and biogas plants along with a dry waste unit, it provides holistic learning experience combining practical and theoretical learning. This center would provide a platform for workshops, education, and dialogue on recycling, waste reduction, and the advantages of adopting circular practices. The fact that it is located in the heart of Gurugram is an added benefit.



IDEAS THAT CREATED BUZZ



CHEELA MELA

Cheela mela is an initiative to promote the use of cloth bags, instead of single use plastic bags. It also promotes upcycling of old clothes, which otherwise end up in landfills. The idea for the event originated in the city of Bengaluru, Karnataka, hence the name. 'Cheela' in Kannada means bag. This event became quite a hit with citizens of Bengaluru and after the first mela in Madiwala vegetable market in July 2022, 16 more such events were organized across the city. The Cheela Melas at the Lalbagh Flower Shows and Kadlekai Parishe saw huge footfalls. Through the year, a total of 3462 upcycled cloth bags were made and given to the public who got their old clothes to the stalls set up under the campaign. The 'Cheela Mela' event grabbed the attention of the media and the same was showcased by GIZ in the COP 27 held at Sharm El Sheikh, Egypt. The initiative was also replicated in other projects of Saahas and other organizations like the Rotary Inner Wheel Club, Ladies Circle, Let's Be the Change, Maheshwari Mahila Mandal etc. also started promoting this concept.



PLASTIC FREE JULY



July has been identified by the Plastic Free Foundation as the month in which campaigns to reduce the usage of Single-Use Plastics are carried out around the world. Saahas participated in the **#PlasticFreeJuly** campaign by carrying out activities across our project locations. A host of initiatives including street plays, promotion of cutlery banks, zero-waste events were organized. A unique concept of the Plastic Asura was used in our rural Karnataka projects to spread awareness about the ill-effects of using single-use plastics

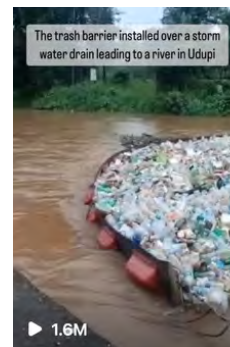
THELA MELA

These campaigns were carried out in Gurugram as part of the Alag Karo intervention in ward 32. The compost from decentralized community composting units set up under the project was gifted back to the residents to make them aware about what is happening to their waste. Information about the schedule of distribution was sent out in advance through mike announcements and WhatsApp groups. An electric vehicle with messaging about segregation and composting went around the identified areas of the ward and gave compost to the residents. The campaign received very good response from citizens as they were happy to see the visible results of source segregation and got to know what is happening to their wet waste. This helped in building community engagement and aided behavioural change leading to sustenance of source segregation.



TRASH BARRIER IN UDUPI

A floating trash barrier was installed across a storm-water drain near Sai Mandir in Kodankoor ward of Udupi. This was a part of our city-wide intervention to improve solid waste management systems in the coastal city of Udupi and was implemented with the CSR support of HDB Financial Services. The Pourakarmikas of the City Municipal Corporation, Udupi remove the collected waste twice a week. Our social media post about the trash barrier has gone viral and has received more than 1 million likes on Instagram!



SUSTAINABLE MENSTRUATION



The disposal of sanitary waste which consists of sanitary pads and diapers is one of the major pain points of any solid waste management system. The small incinerators, which can be installed in wash rooms of offices, schools and hostels are unsafe as most of them emit hazardous fumes because they do not operate above the mandated 800°C. Also, there are frequent breakdown issues and a lot of them that we surveyed become un-operational within months of being installed. The only CPCB approved solution is to send them to authorized bio-medical waste handling facilities but this comes at a huge cost to the Urban Local Body or Gram Panchayat. The most viable alternative to overcome this issue is to switch to sustainable menstruation products.

Throughout the year, we carried out campaigns encouraging women to make the switch from plastic based single-use disposable sanitary pads to more sustainable options like the menstrual cup and cloth pads. Across all our project locations, we have reached out to more than 1200 women and have found women very receptive to using menstrual cups and cloth pads. We were able to make more than 80% of menstruating women and adolescent girls switch to sustainable products in the Orohalli Panchayat of Bengaluru Rural district in the last FY



Experience as shared by the Pourakarmikas abouts usage of menstrual cups

I used to cry when my periods came every month. I would feel that I did not want this life. Usually, the workload would be most during the time of my periods and there would be inspections as well. Every month, it was the same problem. Using pads made it difficult to walk as it would cut into the sides when we were wearing them; it used to be very uncomfortable. Thank you very much for giving us these menstrual cups. No matter how much I thank you every month it will not be enough. It makes us happy to work during our periods. Initially, when you talked about these cups, we were scared thinking what if it goes inside and how to use it. I made up my mind, thinking no matter what, I should try it once for myself and use it for a month.

The second month was very easy and I felt very nice. I wear the cup every month now and it has made my job easier. My daughter was also facing similar issues and I told her about the cup. She has also started using it now and she is also very happy. If everyone uses these cups, sanitary pads will vanish. If you wear the cup, you will not realize that you are on your period. Pads made it difficult for us to walk and work; cups solved all these issues, and we are not scared anymore. It has made our lives easy; We find it easy to do our everyday things and travel in buses also. After the training was given, I have been using the cup and it is very nice. It is easy to attend functions while wearing it, and it has made traveling easy too. Please use cups, it is very beneficial for women. I do not quite know what more to say, but I am still saying all this so that more women start using this. Happy Periods. Happy Women's Day.

Watch video [here](#).



KEY PROJECTS THAT ENDED IN THE FY22-23



AVIRAL

Reducing plastic in the river Ganga was a pilot project that aimed to reduce the amount of plastic waste entering the Ganga in the two holy cities of Haridwar and Rishikesh. Under the initiative, powered by the Alliance to End Plastic Waste and implemented by GIZ, in co-operation with Saahas and Waste Warriors Society, we worked with the Municipal Corporations of these two cities to adopt a sustainable approach to plastic waste management. The intervention comprised of two key components, one focussing on awareness and the other on pilot implementation in selected wards. Saahas worked in Haridwar and Waste Warriors Society worked in Rishikesh.

Knowledge Products developed:

As part of the intervention, a website <https://aviralganga.in/> was developed where several knowledge products created as part of the project are made available. Important modules developed as part of the project are the Waste Management Guidelines for Public Events, School modules on SWM, Source Segregation and Plastic Waste Management, and communication tools including segregation flyers, banners, signboard designs, do's and don'ts etc. All the resources have been developed in Hindi and English and can be downloaded from the website of the project.

Total Waste collected

14,214 kg

Plastic Waste collected

1,555 kg

People sensitised

50,575

Waste Workers trained

350



STRENGTHENING SWM IN RURAL ANDHRA PRADESH, TELANGANA AND KARNATAKA

Saahas partnered with UNICEF to support the three states in strengthening the rural solid waste management systems. This involved setting up of model Gram Panchayats in 3 districts of Karnataka and Telangana, scaling up the intervention to 150 Gram Panchayats through training of master trainers in the two states, providing technical inputs and capacity building support to all the three states, installing hand wash stations as part of COVID support and developing knowledge products to capture the key activities and learnings of the project.



As part of the partnership, Saahas drafted the policy, strategy and bye-laws for rural solid waste management and submitted them to the states of Telangana and Andhra Pradesh. In the 6 model Panchayats, we were able to reach 80% source segregation level in Telangana and 70% in Karnataka. The Village Water and Sanitation Committees in all the 12 Panchayats were revived and we beautified 30 black spots. Regular door-to-door segregated waste collection was introduced and income from sorting and sale of dry waste was enhanced through scrap dealer mapping. User fee collection was initiated in the Panchayats of Karnataka to augment the income of the SHGs from sale of waste. The Panchayat provided the gap funding to the SHGs to ensure sustained operations. Taluk/Mandal level workshops were conducted in the 3 districts to propagate the learnings of the model Panchayats, which included exposure visits to the villages and hands-on activities to understand the operations of solid waste management. Delegates from the trainings organized by National Institute of Rural Development and Panchayati Raj (NIRDPR), Hyderabad also visited the model Panchayats in Telangana as part of their field exposure visits. A simple Panchayat Grading Tool and a pictorial assessment tool were developed as part of this partnership.



KEY ACHIEVEMENTS

- Draft policy, strategy and bye-laws for rural SWM for AP and Telangana developed;
- Model Panchayats set up in Belagavi, RangaReddy and Vikarabad;
- 3 levels of training modules for Panchayat functionaries, local stakeholders and sanitation staff developed; Panchayat Grading & Assessment tool developed;
- VWSCs in all the 12 model Panchayats revived; source segregation levels of 70% achieved;
- 30 handwash stations installed and commissioned, 95000 sensitized on handwashing behaviour



SPECIAL WASTE STREAMS HANDLED



CIRCULAR REALTY

“Circular Realty” is a first of its kind project in India which focusses on awareness about the problems around improper disposal of construction & demolition waste and provides responsible disposal options to citizens (non-bulk generators). The project is being executed in Bengaluru and with funding support by **Tata Housing Development Company & Tata Realty and Infrastructure Ltd.**

Through this project we have reached out to 36,000 residents of Bengaluru and collected 43MT of C&D waste, out of which about 70% was sent for recycling or was repurposed/reused. An IVRS number has been set-up through which collection is facilitated. 35 awareness events were conducted with citizens and a multi-stakeholder workshop was organized to discuss the challenges and learnings. The panellists for the workshop included representatives from Karnataka State Pollution Control Board (KSPCB), Sobha Concrete Products Limited, Bengaluru Apartment Federation (BAF), National Law School of India University (NLSIU) and Saahas which was moderated by Ms. Meera K (Chief Editor, Citizen Matters).



While in the first year of the project, we were providing free pick-ups through the CSR support, in the next year we will be only partly subsidizing the pickups so that the collection can eventually happen without CSR support.

KEY METRICS

C&D Waste Collected

43 MT

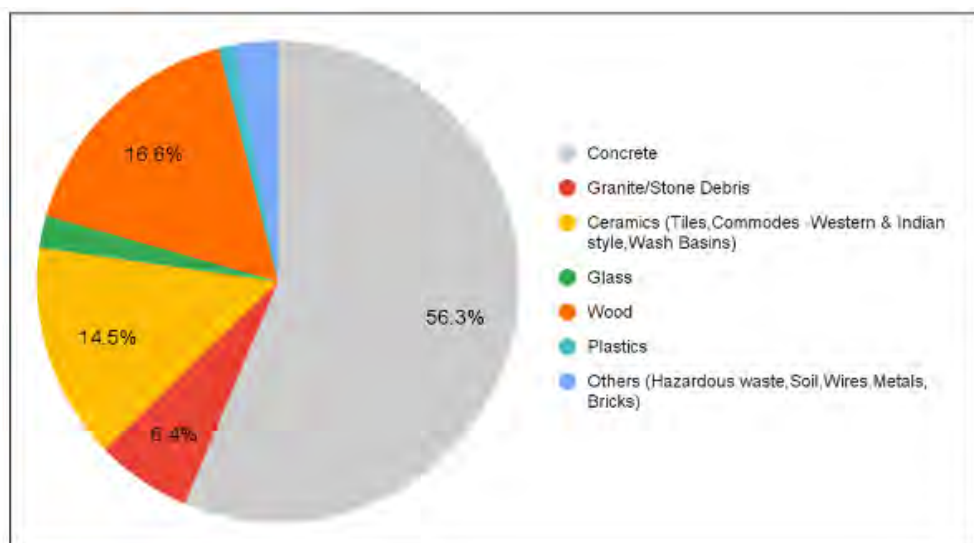
Reached out to residents

36,000

Collection drives

80

Breakup of the collected C&D waste



CHANGE MATTERS

Our very own RRR initiative, promoting life extension through reuse and repair

Project “Change Matters” focuses on management of bulky waste that is usually not collected by the regular waste collection offered by the Urban Local Bodies such as furniture, mattress, toys, books, footwear, e-waste etc. Generally, such type of waste is not collected by the collection vehicles and is found to be dumped on footpaths and other public places or is burned leading to environmental degradation. To avoid this situation, the project offers collection services to citizens wanting to dispose of such waste responsibly. The collected waste in turn is donated to charities or given away to entrepreneurs dealing in second hand goods. The waste is either recycled, reused, or sent for responsible disposal. Through “Change Matters” we aim to bridge the gap between the current and the desired state of bulky waste management. This project is implemented with funding support of VMware.

A key focus area of this intervention is to encourage people to repair and thus extend the life of articles. 14 Repair Days were organized where people could get their footwear, bags, clothes and electrical appliances for repair. We received a very good response to this initiative, especially from low-middle income households. In all, 491 people used the repair services and 530 items were repaired.

A common IVRS number is used for both Circular Realty and Change Matters to arrange pick-ups. In FY23, 37MT of material was collected and 9000+ citizens were sensitized.

The furniture and shoes were given to entrepreneurs who refurbish/repair the items and sell them in second hand markets. E-waste was handed over to an entrepreneur who has a tie-up with authorized recyclers. Clothes, books and toys were handed over to non-profit organizations for distribution to underprivileged sections of the society



KEY METRICS

Material Collected

37 MT

Reached out to residents

9,000

Collection drives

56

On-call collections

220

BREAKUP OF ITEMS COLLECTED BY WEIGHT



BE-CIRCULAR

Spreading awareness and enabling collection of e-waste

This was a two-year e-waste awareness and collection program in Delhi-NCR to address the non-bulk generators of e-waste. It involved carrying our awareness campaigns in residential societies, educational institutions and offices, and organizing collection drives. E-waste drop boxes were also placed in some of the residential societies to facilitate collection. This project was funded by Ericsson.

In the second year of the project, we onboarded 16 Resident Welfare Associations (RWAs) and 12 schools, reached 28,506 people directly for awareness and organized 9 collection drives. Our radio campaign on Radio City was awarded the Delhi Icon Award for excellence in “E-waste Awareness and Management” category. A unique open-air exhibition on e-waste was organized in Dilli Haat which had photography exhibits of Seelampur e-waste hub and its informal workers. A film titled “I am the Planet” about what happens to our electronic waste and how we should dispose it, was created as part of the project. An animated booklet titled “Little Tammy’s e-waste story” was also created as part of the creatives for awareness.



KEY METRICS

E-Waste Collected

7.2 MT

Collection drives

9

Reached out to

28,506 Residents

2,980 Students

On-boarded

16 RWAs **12** Schools



URBAN INTERVENTIONS



LARGE URBAN INTERVENTIONS

In the FY2022-23, we expanded our work in Gurugram and Bengaluru cities through interventions that covered more than 1,25,000 households in the two cities. Two of our large interventions in these cities were under the Alag Karo and Circular Waste Solutions projects. The Circular Waste Solutions intervention also operates in the city of Trichy, apart from Bengaluru.

ALAG KARO 2.0 : HAR DIN TEEN BIN

After the successful implementation of Alag Karo phase 1 from 2017 to 2019, the phase 2 of the project was initiated from October 2020. The objective of the phase 2 was to set up a model ward by working with residential and commercial waste generators across the ward to improve source segregation levels, streamline segregated collection, improve decentralized processing and equip the waste workers with better capacities. In addition to implementation in ward 32 of Gurugram, a part of Vasant Kunj in New Delhi was also included in the project coverage area.

With the objective of demonstrating an Atmanirbhar ward, source segregation was implemented in the residential and commercial areas of ward 32 with the help of various awareness activities. Additionally, an IT tool was developed to track real-time data on street-level collection coverage, a dhalao (garbage collection centre) in Vasant Kunj was converted into a dry waste collection center to provide a safe environment for the workers there, collection vehicles were partitioned to enable segregated collection, and ID cards were issued to the collection workers.



Key Metrics at end of FY 2022-23

26,000

Waste generation units reached out to, ensured

76%

source segregation

44

residential societies and

6

commercial establishments have set up on-site composting systems

308

informal waste workers trained

MCG ID card issued to

243

waste workers

212

bank accounts opened and E-Shram registrations done for

115

waste workers

31 MT

of waste diverted from the landfill

everyday

2

decentralized community waste processing units set up in the ward

CIRCULAR WASTE SOLUTIONS - IN BANGALORE AND TRICHY

GIZ has partnered with Saahas to implement the **Circular Waste Solutions** (CWS) program in Bengaluru and Trichy. Circular Waste Solutions is a project under the NAMA Facility which focuses on providing technical assistance to the city and includes supporting setting up a role-model source segregation system, integration of the informal sector and capacity building of relevant stakeholders on effective SWM etc. The objective is to cover 25% of the city's population across 5 years and implement source segregation. The project is being executed in Bengaluru and Trichy since Dec 2021.

In the year 2022-23, we could reach out directly to 1,06,847 households in Bengaluru and 7299 households in Trichy. Many innovative activities were carried out as part of the awareness campaigns, with a mix of interpersonal awareness, mid and mass-awareness. These included organizing **Cheela Melas**, public announcements along with collection vehicles, games on waste involving women and children, sessions in schools and colleges and door-to-door campaigns through flip-charts. One of the ways to ensure source segregation is when people start practicing home or community composting. This also leads to low-carbon waste management. 512 households adopted home composting after getting trained by the CWS team. Sessions on sustainable menstruation were also carried out as part of waste reduction activities. A vegetable market in Trichy was made zero-waste by eliminating the use of plastic carry bags.

Apart from sessions with the officials working in the wards under the project, a number of awareness and training sessions were held with the sanitation staff. Games and fun activities including dance and drama were organized where the sanitation staff actively participated. This gave them a chance to mingle freely with each other and with the CWS teams and overall improved the bonding between each other. Best performing auto drivers and helpers were also felicitated to keep their motivation levels high.



HOME-COMPOSTING



WORKSHOPS FOR SANITATION STAFF



ZERO-WASTE MARKET



SUSTAINABLE MENSTRUATION PROMOTION



CHEELA MELA

Key Metrics :

BANGALORE

1,06,847
Waste generation units
reached out to

Source segregation
levels :

50%

Home composting
initiated:

512

Sustainable Menstruation
sessions held:

12

Black spots eliminated

4

TRICHY

7,299
Waste generation units
reached out to

Source segregation
levels :

60-70%

Home composting
initiated:

95

Sustainable Menstruation
sessions held:

6

Black spots eliminated

5

URBAN INTERVENTIONS IN LOW-MIDDLE INCOME AREAS

In most of the cities, the high-income areas have relatively better waste collection systems and cleaner roads. The situation is quite different in the low-middle income layouts where door-to-door collection does not take place on a regular basis and the waste is mostly disposed of at the street corners. Waste is also thrown in the drains and streets leading to unhygienic conditions which impact public health adversely. These areas are a key focus in our urban interventions where we work on improving visual cleanliness, source segregation and ensuring regular segregated collection. We also work on improving the community engagement and identifying street-level champions who take active interest in spreading awareness. We work with all the stakeholders like the waste collection staff, municipal officials, elected representatives and local influencers. Some of these interventions were in Bengaluru, Gurugram and New Delhi

SWACHH JEEVAN



Covered about 4000 households in low-income areas in Madiwala, Koramangala and Kuvempu Nagar in 2 years; Wet waste is being sent to the decentralized biogas plant in Koramangala, thereby reducing carbon emissions. The gas generated is used in the nearby restaurants.

Outcome:

Enabling source segregation of 3.87MT per day of waste. Capacity of biogas plant at Koramangala increased by 2TPD.

Location: Bangalore

Funder: Cadence Design Systems

SWACHH SUNDAR SIKANDERPUR



Worked in the urban village in Gurugram to sensitize the community about waste and improve resource recovery, covering 4705 households and 150 shops. Numerous activities involving students and residents carried out. Good community connect established and a template for urban villages has emerged. The wet waste is getting composted in EcoGram.

Outcome:

Enabling segregation of 2.49MT per day of waste; 1TPD composting facility set up; 2 livelihoods created, ID cards given to 15 waste workers.

Location: Gurugram

Funder: SBI Card

MANBHAR SWACHH

Implemented in 2 blocks of Madangir slum of South Delhi. A decentralized waste processing unit was established which had set ups for composting and dry waste sorting. Regular door-step collection was introduced and source segregation was promoted.

Outcome:

Reached out to 6100 households and diverted around 445 MT of wet waste and around 260 MT of dry waste from landfill during the 2 year project duration. Enabled segregation of 2.57MT of waste per day.

Implementation partner: Uboontu Foundation

Location: New Delhi

Funder: SKF

OTHER URBAN INTERVENTIONS

SADA SUCHITVA AREKERE



Worked in Arekere ward in continuation to our ward level interventions in Bangalore. Coverage area includes 3000 households close to the Arekere lake. We engaged community, trained sanitation staff and streamlined collection to reduce waste dumping in the lake..

Outcome:

Enabling segregation of 2.89MT per day of waste from 3000 households.

Location: Bangalore

Funder: [Shahi Exports Pvt. Ltd](#)

TOWARDS CLEAN VELACHERY



Worked in 4 collection routes in Velachery area covering about 2300 households to implement source segregation, waste reduction and improve resource recovery. Also worked in 2 temples in the area to reduce usage of single use items by the devotees and the temple administration

Outcome:

Enabling segregation of 1.32MT of waste per day from 2300 households.

Location: Chennai

Funder: [Latent View Analytics Ltd](#)

KASA MUKTA HEBBAGODI

Working in 10 wards of Hebbagodi TMC, at outskirts of Bangalore to help reduce the waste going to the landfill. Involves covering 10,000 households to engage the community and build capacities of the officials.

The project started in Dec 2022

Location: Hebbagodi

Funder: [Societe Generale](#)



“

I have been practicing home composting for the last 4 months and I am very excited to convert my waste into black gold. I had to wait all day in the morning for the BBMP vehicle to pick up our daily wet waste, but now I place it in the composting bin as soon as I finish cooking. After starting my own composting, I used my own manure without chemicals in my terrace garden instead of buying manure from outside.

Quite honestly, I am very pleased to report that Saahas is doing an amazing job. The kits are being monitored every few weeks by the Saahas team, and we receive instant responses to the queries and problems via WhatsApp. Thanks to the Saahas team for this wonderful project on home composting

- Ramayya Shetty

(Resident, Pai Layout, Hulimavu, Bengaluru)

BHOOMITRA



“

C&D WASTE COLLECTION

We have changed the bathroom tiles and half a bag of old tiles and concrete was left out . There was Teflon glass which we could not dispose of for many years . We could not dispose of it through our apartment since they refused to accept any building waste . This was kept in the balcony where we used to dry our clothes. We could not clean the balcony and use it for drying the clothes . This is the only balcony sunlight was there in the afternoon.

My community WhatsApp group shared a message from Saahas and it was interesting to me since I have to shell out 15 k for building waste to my architect for renovation of the house in one month. In spite of my request they did not segregate the waste and hence Saahas refused to take it. This helped me to inform my architect henceforth I will not pay for debris disposal and they started segregating waste at the end of the work .

Collecting the building waste was possible due to segregation by vendors which not only supports my requirement but protects the environment by recycling and saving huge cost .

The entire process was seamless without any phone calls. I was able to get things done in WhatsApp which is digital and anybody can do it. Let us save this earth by segregating the building waste and protecting our children from environmental pollution. Saahas can only fulfil this.

~ Kannan Ramadas

Resident, Salarpuria serenity, HSR layout



”

“

Due to the constant efforts of these boys and girls, the waste management situation in the village has improved, from small children to grown-ups, everyone has been made aware about source segregation, and today we are using the compost made from our own wet waste in our plants. The waste collection vehicle comes everyday now, the safai karmacharis have started coming regularly. We can feel the winds of change in the village.

- Chatarpal Singh

(Head of the recently formed Sikanderpur Sudhar Samiti which works towards the development of the Sikanderpur village. He has spent his entire life in Sikanderpur.)

SIKANDERPUR



”

RURAL INTERVENTIONS



LARGE-SCALE INTERVENTIONS ACROSS KARNATAKA

PARIPURNA

Sustainable waste management through Community-Owned Rural Resource Recovery systems

The Government of Karnataka had planned to set up 4 rural Material Recovery Facilities in 2021. Out of the four, two were inaugurated in the FY 2022-23. As a recipient of the prestigious HCL Grant in 2021, Saahas had planned to work in 140 Panchayats around the 4 MRFs to ensure availability of source segregated dry waste to the MRFs. In the year 2 of the project, we were able to cover 97 Panchayats (48 were included in year 2, 49 were initiated in year 1) across the districts of Ballari, Dakshina Kannada, Ramangagara, Udupi and Vijayanagara.

A team of 21 works across the villages in the project coverage area, covering more than 86,000 households carrying out community engagement and awareness activities. The team has used the local festivals to engage with the people and spread the message of waste reduction, reuse and source segregation. Activities which inculcate anti-littering behaviour were also taken up. Specific focus was on elimination of Single-Use Plastics and other single use items for which campaigns were organized around the World Environment Day in June and Plastic Free July.



Rally on spreading awareness about littering and impact on cattle



Apart from awareness campaigns, the Panchayats were provided support to prepare the waste collection route plan, onboarding SHGs for operations and establishing Standard Operating Procedures for waste processing. Market linkages for sale of dry waste were provided by mapping the scrap dealers for different waste types in the districts. The SHGs operating the waste management units were trained in bookkeeping and tracking of their income and expenditure. We provided infrastructure support in the form of high-quality balers for the MRFs and GPS trackers for collection vehicles. Two of the 4 MRFs, those in Udupi and Dakshina Kannada districts were inaugurated and through Paripurna we were able to ensure that source segregated dry waste goes to the MRFs. Following were the key highlights at the end of year 2 of the project:

KEY METRICS

Pachayats covered

97

Households covered

1,68,363

Dry waste diverted from landfill

1,548MT

Segregated dry waste collected per day

51.8TPD

Resolution for user fee collection passed

92

Out of 97 Panchayats

User fee collection started

61

Panchayats

Livelihoods created

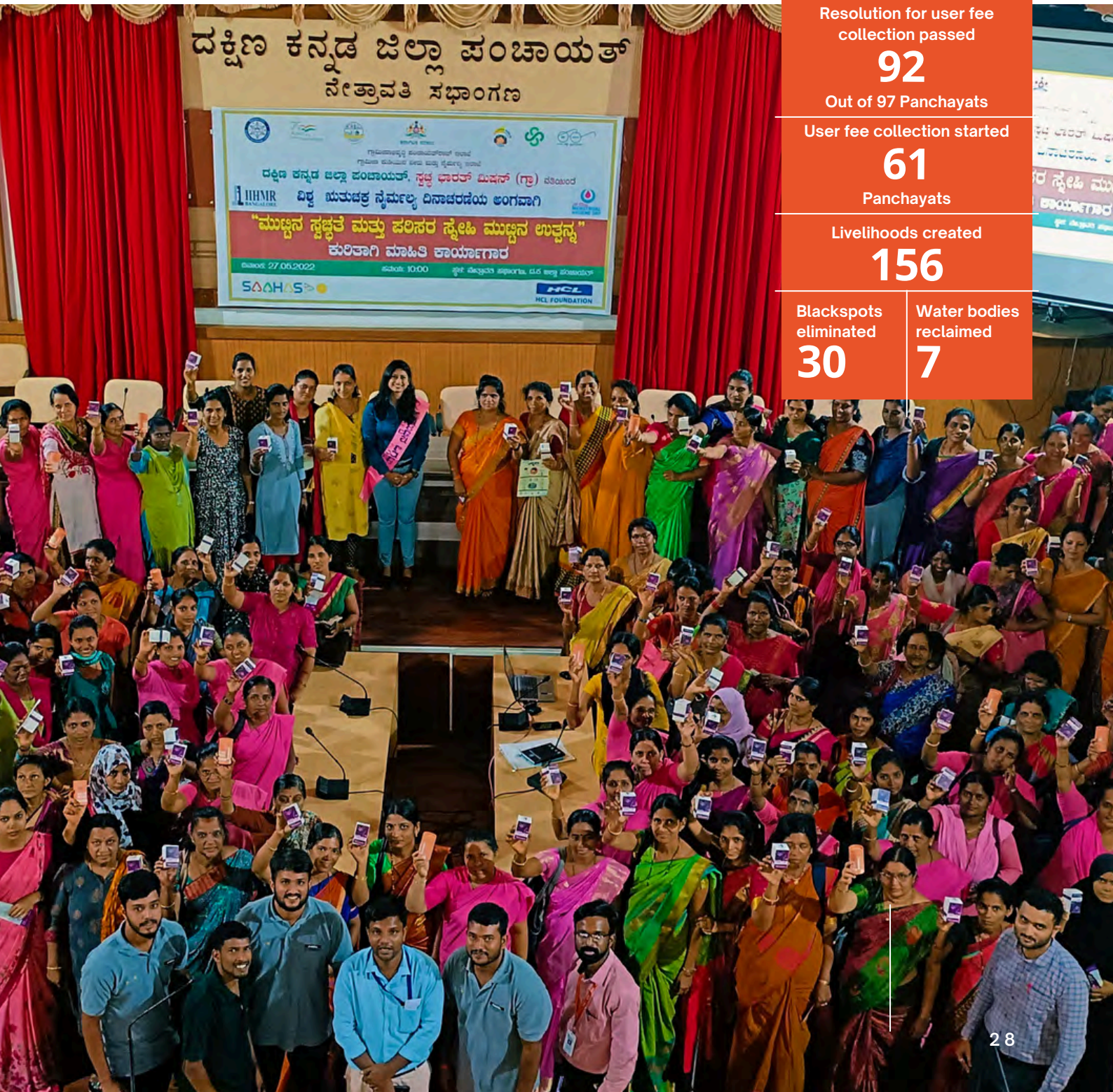
156

Blackspots eliminated

30

Water bodies reclaimed

7



OTHER LARGE-SCALE INTERVENTIONS IN KARNATAKA

Apart from the intervention under the Paripurna project, Saahas has been carrying out multiple large and small projects in 15 districts of Karnataka. These interventions vary from deep end-to-end engagement in 1-2 Panchayats to taluk level interventions covering all villages in the taluk. Some of these interventions such as our projects in Ballari, Bengaluru Rural and Bengaluru Urban are more than 5 years old. Some of our newer engagements have been with the Panchayats in Marenahalli, Horalavadi and districts of Bagalkote, Bidar, Kalaburgi, Kolar, Shivamogga and Tumakuru. In Bagalkote, Bidar, Shivamogga and Tumakuru we provided a 3-month support to the district in setting up a segregated waste collection system in 5 Panchayats in each of the districts

MISSION SUNEHRA KAL

Starting with 1 GP in 2018, the project is now covering 27 GPs in Bengaluru Urban and Rural districts of Karnataka. In the last FY, the coverage was increased from 14 Panchayats to 27 Panchayats. The project intervention is of 3 different types and the GPs are categorized under Hub, Implementation and Amplification models, based on the depth of the engagement of Saahas team. Over the years, more GPs are added under Amplification mode and the intervention is deepened in the ones moved to Implementation mode.

Outcome: 4.51TPD of waste segregated; 15 livelihoods created

Location: Devanahalli and Yelahanka Taluks, Bangalore Urban Dist.

Funder: ITC

MISSION SWACHH KALYAN KARNATAKA

4 Panchayats in each of the two districts have been identified for implementation of holistic SWM systems, and these will be scaled to 100 Panchayats in the next year by providing training and handholding support. A number of community engagement activities have been initiated to get support from the community

Outcome:

All 8 GPs have signed MOU with GPLF for SHGs to run the SWM operations, 23 livelihoods created; 7.32MT per day of waste getting source segregated.

Location: Kalburgi & Yadgir districts

Funder: Rainmatter Foundation

ASHA KIRANA

Apart from setting up collection system in 11 villages of Orohalli Panchayat, we are working in 29 Panchayats of Kolar district to strengthen their SWM systems. As part of livelihood creation, we trained SHGs in Orohalli to make bio-enzymes, soaps and cloth bags and helped them in marketing the products.

Outcome:

Livelihoods created for 18 women belonging to SHGs

Location: Orohalli Panchayat, Hosakote Taluk and Kolar District

Funder: Juniper Networks India Pvt Ltd



FOCUSSED DEEPER INTERVENTIONS



BEYOND THE BROOM

This is being implemented in 6 Panchayats and 1 TMC in and around Torangallu village. The source segregation percentage has improved from 62.8% in the last FY to 69.7% in this FY. Waste going to landfill was reduced by 12%, and 9 dumpsites were eliminated. Waste reduction campaigns were carried out to reduce the use of single-use disposables.

Outcome:

5.92MT per day of waste getting segregated, 1065MT of wet waste diverted from landfill, 113MT of dry waste processed, 95 livelihoods created.

Location: Sandur and Hospete Taluks, Karnataka

Funder: JSW Foundation

KASA MUKTA HORALAVADI

This is being implemented in about 2000 households in the Panchayat. A dry waste management unit was set up as part of this project. Segregated collection was initiated by the Panchayat, after we carried out awareness and capacity building sessions with the community and officials. Scrap dealer mapping was carried out to improve the sale of recyclables from the dry waste unit.

Outcome:

Waste Management Unit set up; 2 livelihoods created.

Location: Mysuru district

Funder: Bacardi India Pvt Ltd

MARENAHALLI

Initiated in Nov 2022, the key objective was to set up a solid waste management unit in the Panchayat and initiate segregated waste collection in 6 villages of the Panchayat. Baseline survey, waste audit and capacity building sessions for officials were carried out. Exposure visits to MRF in Bangalore and Swachhagraha Kalika Kendra were organized.

Location: Bangalore Urban district

Funder: Shell India Markets Pvt Ltd



PARIVARTAN, BANNERGHATTA

After supporting the Bengaluru Bannerghatta Biological Park over the last two years, in the last FY we began our intervention in 5 villages of the Bannerghatta Panchayat which borders the Park. About 5000 households were covered under the project..

Outcome:

0.78MT of waste segregation enabled; A waste management unit was set up and segregated collection was initiated; 2 livelihoods generated.

Location: Bannerghatta Panchayat, Bengaluru Urban District



BALLARI, KA

“You have been working very hard to make our village so clean village by providing comprehensive information about solid waste management within the GP, the role of the villagers in separating green and dry waste is valuable and you have organised many awareness programmes to make people aware, many jathas, demonstrations, community awareness programmes, instructions. Placards, improvement of waste disposal sites, photocopies of waste segregation and calendars. We heartily congratulate you for all your cooperation and the GP is forever indebted to you for your services.”

~ Panchayat Development Officer(PDO), Sugganahalli GP, Ballari



CHAKAN, MH

I am Laxman Mahalungkar from Mahalunge Ingle village. I have a building in which 50 rooms are there and all given on rent to migrants. After start of the project by Saahas, we give wet and dry waste separately. We have told all the tenants living in the building to handover segregated waste only. Earlier there used to be a lot of mosquitos because of unhygienic conditions due to waste dumping, but now there is significant reduction in waste dumping near the building. There is a temple of Sadguru Shreepati Baba in the village where food is served every 15 days, plates have been given to the temple under the project. Earlier we used to eat food in disposable plates and all waste is dumped in the mixed form leading to unhygienic conditions and breeding of mosquitoes.

~ Laxman Mahalungkar

(Owner of residential block in Mahalunge Ingale, Chakan, Pune)



PROJECT WITH DIRECT SUPPORT FROM THE GOVERNMENT

Support to 4 districts on SBM-G:

Staff was deputed at the district offices of Bidar, Bagalkote, Shivamogga and Tumkur to handhold the SBM-G team in setting up SWM systems in 5 Panchayats each and provide capacity building support to other Panchayat officials. This was a 3 month engagement where we worked closely through the existing institutional structure for and provided support as required.

Outcome:

SHGs were trained to take up operations, segregated collection and processing of dry waste was initiated in the 20 Panchayats, scrap dealer mapping helped improve sale of recyclables, user fee collection was initiated. The VWSCs in all the Panchayats were activated.

Location: Bidar, Bagalkot, Shivamogga and Tumkur, Karnataka

Funder: RDWSD, RDPR, Govt of Karnataka

RURAL INTERVENTIONS IN OTHER STATES

Apart from working across the state of Karnataka, we handed over our project in Gujarat and continued our rural interventions in Madhya Pradesh, Rajasthan, Telangana, Andhra Pradesh and Maharashtra

UJJWAL ATUL, GUJARAT

One of our most successful rural projects, Ujjwal Atul, ended on 30th June 2023 after handover to the Atul Foundation. The Foundation will monitor the SWM activities that are being carried out by the Gram Panchayat.

CLEAN DESTINATION, PANNA

In this FY we covered 14 of the 30 villages to be covered under the project. Setting up of a cluster level MRF was initiated and segregated collection systems were set up in the villages. 4 village level storage centres were set up. A capacity building workshop for Sarpanch and Secretaries of the Panchayats was organized. Staff at 2 MP Tourism resorts were trained on SWM.

Outcome:

Collection initiated in 14 villages;6MT of dry waste collected, 2.7MT sorted

Location: Panna National Park, MP





SWACHHATA ABHIYAN, KARODA

In the final year of the project we could cover all the 5 villages in the Panchayat. A sustainable system was set up with user fee collection from the residents for once-a-week dry waste collection done by an entrepreneur, supported by locally identified women Safai Mitras. An electric vehicle was provided to the Panchayat for collection. The Kaorda GP was recognised as a model GP for dry waste management in the entire district, earning the designation of a "Rising Panchayat" under the Swachh Bharat Mission (Gramin).

Outcome:

27MT of waste was diverted for recycling/energy recovery, 80% source segregation achieved, 3 livelihoods created

Location: Karoda Panchayat, Rajasthan

Funder: Pernod Ricard India Foundation, Shoft Shipyard



CLEAN MY VILLAGE

More than 90% source segregation has been achieved in the 437 households of the Chinnapanduru Panchayat. Various community engagement events and capacity building sessions were carried out. A waste management unit was established and a bank account to track waste management expenses and income was set up.

Outcome:

4.6MT of dry waste and 63.17MT of wet waste was diverted from landfills. 16 blackspots and 29 burning points were eliminated

Location: Chinnapanduru Panchayat, Tirupathi dist, AP

Funder: Apollo Tyres Foundation

SWACHH SUNDAR CHAKAN

In the third year of the intervention in 2 villages in Chakan, we revived 2 biogas systems in the Anganwadis, set up 2 bartan bhandars to reduce SUP at events and improved the resource recovery from dry waste. Both the waste management units were expanded by adding more composting tanks and better equipment. The overall segregation levels improved and community engagement was strengthened.

Outcome:

Reached out to 7000 households, diverting 1.2TPD of waste from landfills and generated livelihoods for 9 people

Location: Bhamboli and Mahalunge Ingale villages, Pune District, Maharashtra

Funder: Indospace



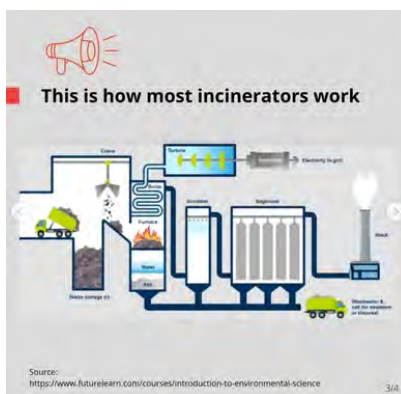
RESEARCH & CONSULTANCY

We launched our research vertical in FY 2021-22, and in FY 2022-23 we were successful in expanding and diversifying the work in this vertical. Saahas is part of the task force formed by **FICCI** to provide inputs to build **CE Framework** for the FMCG sector. We are also partnering with **IIM Udaipur** to explore circularity in the automobile sector.

In a first of its kind assignment, we successfully carried out the waste practices assessment of the Annual National Youth Festival 2023 organized at Hubballi-Dharwad. The Dharwad District Administration supported by the Hubballi-Dharwad Municipal Corporation (HDMC) and the Hubballi-Dharwad Smart City Ltd (HDSCL) took several initiatives to reduce the quantum of waste generated in the event, aiming to organise a “Green Youth Festival.” The Saahas team assessed the various initiatives taken by the organizers to reduce the use of single-use plastics and the amount of waste generation reduced by this initiative. We also reported on the source segregation levels and the processing of different waste categories.



Together with **SWMRT**, we brought out a series of posts on the health and environment concerns around waste burning and **small-scale incinerators**. During the year, we partnered with **CEEW**, **GIZ**, **IIM Udaipur**, **FICCI** and **SWMRT** to carry out various research and study projects. We also undertook baseline assessment, gap analysis and recommendations for improvement of solid waste management in some rural areas of **AP** and **Assam**. We were also invited by the **Bhopal ZP CEO** to do a situation analysis of rural solid waste management intervention in Bhopal district.



Some of the work undertaken under this vertical

CE Framework for FMCG packaging

Circularity in automobile sector

Study on alternatives to SUP

SWM assessment & DPR preparation for Panchayats in AP and Assam

Study on inputs for EPR for solar panels

Study of dry waste value chain in 3 cities

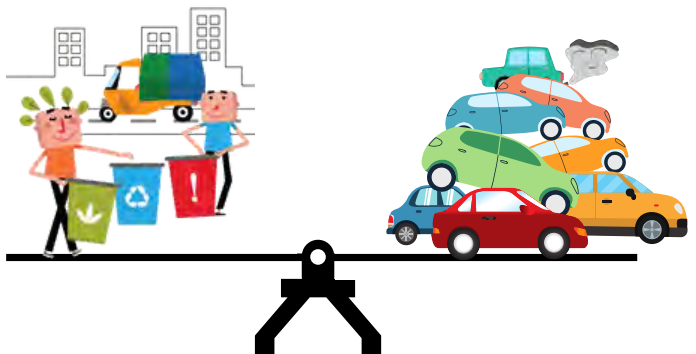
A study was carried out in 11 Panchayats in Keylong region of Lahaul valley and 2 Panchayats of Solang valley to identify the current gaps in the waste management system and recommend solutions along with the design of the MRF that would be required to manage the dry waste. The study was carried out through reces, focus group discussions, interviews and waste trails. The report was submitted to the Sub-Divisional Magistrate, Keylong.



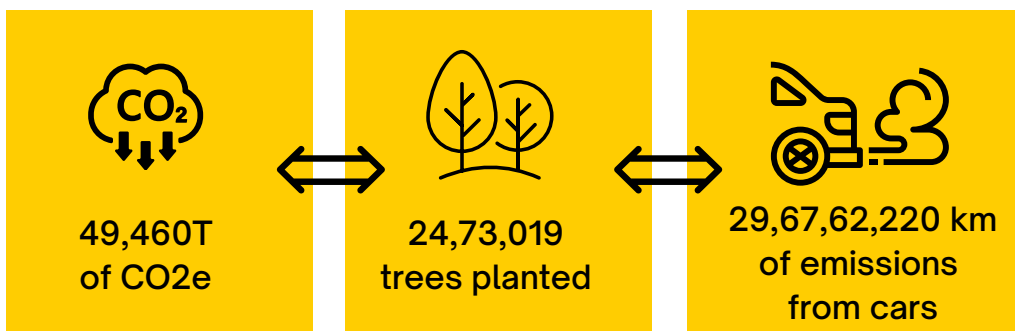
GHG IMPACT ASSESSMENT

Study on tools to accurately measure GHG impact of solid waste management projects

Saahas has started computing GHG reduction impact of our projects in terms of CO₂e from this year (FY 2022-23) onwards, this would be reported annually going forward. The objective is to measure and share one more critical impact of our initiatives. We are computing it internally using a well-recognized, open-source tool called SWEET. The Solid Waste Emissions Estimation Tool (SWEET) is an Excel-based tool that quantifies emissions of methane, black carbon, and other pollutants from sources in the municipal solid waste sector. This was developed by the U.S. Environmental Protection Agency under the auspices of the Global Methane Initiative and in support of the Climate and Clean Air Coalition. The tool provides emissions and emissions reduction estimates at the project-, source-, and municipality-level. The tool and supporting documents can be accessed at <https://globalmethane.org/sweet>



Through our work we have reduced emission of 49,460 Tonnes of CO₂e, which is equivalent to 24,73,019 trees planted or 29,67,62,220 km of emissions from cars saved.#



- About 50 trees are needed to capture one ton of CO₂e in a year and 6000 km driving in a car generates 1 ton of CO₂e

Exclusions due to limitations of the tool which have resulted in lowering our GHG impact numbers:

1. In the waste composition, the C&D (Construction and Demolition) waste category is not there and nor is its processing model. We have a large project which is supporting recycling of the C&D waste, that could not be captured wrt GHG impact.
2. The tool does not model home and decentralised composting. The methane and carbon emissions in decentralised composting would be lower due to largely aerobic conditions that the set up maintains unlike large centralised facilities where significant number of anaerobic pockets are created.
3. The tool does not model how the biogas produced in anaerobic digestion is deployed. The GHG impact of a system where the gas is used as a replacement for LPG will be far more attractive compared to when the gas is used for power generation.
4. There is no option for sending waste for co-processing, the most comparable option is combustion. However, co-processing will have a lower GHG than typical Waste Combustion as in co-processing is replacing fossil fuel.

There is no option for modelling the 'waste reduction' phenomenon. Saahas puts significant effort in reducing SUP; BYOB, supporting cutlery banks etc., however, the impact of these initiatives again could not be assessed.



KNOWLEDGE SHARING ACROSS THE SECTOR

The year 2022-23 saw us share our learnings with other organizations through participation in coalitions, facilitating exposure visits and participation in workshops:

- ★ We facilitated knowledge sharing and exposure visits to other non-profits working in the space of solid waste management, like The Midway Journey and Uboontu Foundation.
- ★ We were invited to be part of the Karnataka state WASH Coalition formed by UNICEF, and to be a part of the Rural WASH Partners Forum (RWPF) set up by the Jal Shakti Ministry and Department of Drinking Water and Sanitation.
- ★ We partnered with organizations like CAR, CSE, WASH Institute, NIRDPR, Toxics Link, UNICEF to deliver sessions on different aspects of urban and rural solid waste management.
- ★ We were invited by the Government of MP to deliver a session on “Best Practices and Strategic Approach on PWM” as part of the one-day workshop for Chief Executive Officers of District Panchayats for all 52 districts to develop their capacity for comprehensive ODF+ interventions. This workshop was organized by the Department of Panchayat Raj and Rural Development, MP.
- ★ We participated as a speaker in a session on “Management of organic solid waste and plastic waste by PRIs: Experiences, Challenges and Way Forward” as part of the National WASH Conclave organized by NIRDPR and UNICEF.
- ★ We were also invited by NIRDPR, Hyderabad to take sessions on Plastic Waste Management and Challenges in setting up rural solid waste management systems as part of a 5-day training program for participants from different states of the country. Exposure visit was organized to our project location in Telangana, Chilkuru Panchayat.
- ★ We were invited to take a session on learnings from our work in rural Karnataka for senior officials and SBM consultants of the Rural Department, West Bengal.
- ★ CSE invited us as faculty to several training sessions conducted at the AAETI, including on Plastic Waste Management, Material Recovery Facilities, IEC and Behavioural Change, and rural solid waste management.
- ★ Our senior team members participated as panelists in talks on SUP alternatives and livelihood opportunities in Circular Economy organized by Toxics Link.
- ★ We were invited to participate as a speaker in “Circular Resources for our Common Future: Cities as Drivers” jointly organized by NIUA, GIZ, UNEP, and CEEW.
- ★ The team working on rural projects in Karnataka carried out sessions across the state for SHGs to train them to undertake operations of SWM systems in villages.
- ★ In partnership with Centre for Advocacy and Research, we carried out trainings for sanitation staff and SHGs in Bhubaneswar and Jaipur



MEDIA MENTIONS & RECOGNITION

RECIPIENT OF THE GROW FUNDS FROM EDELGIVE

The Grassroots, Resilience, Ownership and Wellness (GROW) Fund is a first-of-its-kind initiative aimed at building the capabilities, resilience and future readiness of grassroots organisations, in turn facilitating their efforts to effect change at the grassroots.



Anchored by EdelGive Foundation along with a collection of reputed funders, the GROW Fund aims to strengthen 100 high impact grassroots organisations over 24 months, through capacity building, and support of key organisational functions.

Saahas was chosen as one of the 100 recipients of the GROW fund. This fund helped us build capacities of our leadership team, establish support functions for Communication and Partnerships and enabled roll out of tools that improve organizational efficiency. In addition to the financial support, we also benefited from the capacity building sessions organized by the EdelGive team on HR, Tools and Compliance. A learning platform has been created by the EdelGive team which contains modules on topics like time management, risk management and other topics which are very important for NGOs. We are grateful to all the funders who are a part of this initiative as this gives grassroot NGOs like Saahas the much-needed support for organization development and future readiness.

MEDIA MENTIONS

- "Bag in Madiwala Market" in Deccan Herald on 4 July 2022 - [link](#)
- "Circular Realty" in Citizen Matters on 23 Feb 2023 - [article](#)
- "Circular Realty" in Deccan Herald on 1 Sep 2022 - [article](#)
- "Bhoomitra" in Bangalore Mirror on 13 Feb 2023 - [article](#)
- "Koramangala Bio CNG" in The Times Of India on 24 Oct 2022 - [article](#)
- "Cheela Mela" in The Times Of India on 4 July 2022 - [article](#)
- "NAMA Trichy" in The Hindu on 14 April 2022 - [article](#)



PUBLICATIONS

- 12th ICON on Sustainable Waste Management and Circular Economy and IPLA Global Forum, 2022, Role of Self-Help Groups in MSW Management, Divya Tiwari, Shruthi Sreenivasan, Meghna Vodapalli
- Science The Wire, Meghna Vodapalli and Divya Tiwari, Apr 2022 "Before We Can Manage E-Waste, We Must Reduce Waste. This is Why". Read article [here](#)

AWARDS



BEST CSR IMPACT AWARD

HDB Financial Services (HDBFS) won the 'Best CSR Impact Award' at the 5th Edition of Corporate Social Responsibility & Summit 2022, hosted by UBS Forums in Gurugram in recognition of its contribution towards introducing efficient & sustainable Waste Management practices in Udipi, Karnataka. This project was implemented by Saahas

ASSOCHAM CSR & SUSTAINABILITY AWARD

CGI was declared winner of ASSOCHAM CSR & Sustainability Award 2022 in the category Excellence in Waste Management for our biogas based projects funded by them



ENTREPRENEUR OF THE YEAR

Our founder Wilma Rodrigues was a Finalist (top 5) for Entrepreneur of the Year 2022 by Jubilant Bhartiya Foundation

OUR PARTNERS

ECOSYSTEM PARTNERS

 भारतीय प्रबंधन संस्थान उदयपुर Indian Institute of Management Udaipur	 Federation of Indian Chambers of Commerce and Industry	 ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ Bruhat Bengaluru Mahanagara Palike
 MUNICIPAL CORPORATION GORGHAR	 GOVERNMENT OF KARNATAKA	 MP TOURISM
 Gram Vikas	 WASTE WARRIORS	 Seva Mandir सेवा मन्दिर

FUNDING PARTNERS

 HCL FOUNDATION	 giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH	 Coca-Cola India	 CGI	 JSW Foundation	 ERICSSON	 cadence®
 Tetra Pak	 SBI card	 HYUNDAI Moving the world Together A CSR initiative by Hyundai India India Foundation	 INDOSPACE a GLP (G) joint venture	 Anandana Pondicherry Foundation	 LatentView Artificially Intelligent & Accurate Decisions	 Enduring Value
 Collins Aerospace	 Rainmatter Foundation	 JUNIPER NETWORKS	 SKF®	 apollo Tyres Foundation	 KPMG	 GOOD spirited
 SOCIETE GENERALE	 SHAHI	 SIGNODE TRANSIT PACKAGING SOLUTIONS	 TATA REALTY AND INFRASTRUCTURE LTD. TATA HOUSING®	 THE GROW FUND Growth • Resilience • Opportunity • Wellness	 Pernod Ricard India FOUNDATION	



As a Corporate we are always looking for NGOs that we can rely on completely. While working with Saahas, we never have to worry about the quality of work or fulfilment of deliverables. We tried a new pilot project with Saahas with extremely difficult deliverables. Saahas ensured that they not only meet the target numbers but also over achieve them. The accountability that senior management takes is something that we really appreciate in this partnership.

- Itika

(Manager, Tata Realty and Infrastructure Ltd)

FUNDER



FUNDER

Juniper Networks has been partnering with Saahas since 2018 for our Asha Kirana initiative. I admire the Saahas team's commitment to making a long-term change while keeping the immediate needs of the community in mind. The program has evolved over the last few years with addition of livelihood generation and sustainable menstruation, with the panchayat taking ownership of the waste management operations. I am impressed that Saahas's work is always backed up with authentic quantitative data collected by a committed field team

- Gurumoorthy Mathrubootham
(Manager- CSR, Juniper Networks Pvt. Ltd.)



OUR COMPLIANCES



COMPLIANCES AND CERTIFICATIONS

Compliance Head	Document No.	Remarks
Registration	614 / 2001-02 dated 09 / 10 / 2001	Registered as a Society
PAN	AAAAS8984N	
12 A	AAAAS8984NE2021401	Valid upto FY 2025-26
80G	AAAAS8984NF2021401	Valid upto FY 2025-26
CSR 1	CSR00000097	
FCRA registration	094421566 dated 09/05/2014	Valid up to 8.5.2024
PF registration	KN / 43641	
ESI registration	53000275930001001	
TAN	BLRS30788C	
Darpan ID	KA/2017/0165755	

HUMAN RESOURCES

PEOPLE MATTER



RETIREMENT

Srinivas S, fondly called Srinivas Sir by one and who was a part of Saahas since 2010 retired in April 2022. He is the first employee to retire from service at Saahas and his decade long contribution to Saahas will always be remembered with gratitude. We wish him a happy and healthy retired life



HEAD COUNT

EMPLOYEE DETAILS			
Designation/Role	Female	Male	Total
Management Team	12	8	20
Project Coordinators, Accounts/Admin/HR Executives	26	32	58
Field Supervisor, Field Staff	98	78	176
Total	136	118	254
CONSULTANTS/CONTRACT STAFF			
Consultants, Contract staff	11	39	50

REMUNERATION

STAFF WISE SALARY DISTRIBUTION			
Slab of CTC Salary (INR)	Male	Female	Total
Upto 14000	0	0	0
14001-25000	75	98	173
25001-50000	34	26	60
50001-100000	8	12	20
Above 100000	1	0	1
TOTAL	118	136	254

BOARD MEMBERS



Wilma Rodrigues
Founding Member
CEO, SZW



Ashish Patel
President
Advisor, CMCA



Prof. Sourav Mukherji
Treasurer
Professor, IIM-B



Archana Tripathi
Secretary
CEO, Saahas



Prof. P D Jose
Member
Professor, IIM-B



Varun Gupta
Member
CEO, ProNature Organics



Pranay Lal
Member
Public health professional



Huda Jaffer
Member
Director, SELCO Foundtn.

- None of the Board Members have any blood relations with any other Board Member.
- None of the Board Members and executive team have made any international trips funded by Saahas during this financial year.
- None of the Board Members receive any remuneration from Saahas other than the Secretary (Ex-officio, being the CEO).
- Last Board rotation happened in 2021-22 with one member moving out and two new members joining in.

LEADERSHIP TEAM



Archana Tripathi
CEO



Divya Tiwari
Chief Knowledge
Officer



Sonia Garga
Chief Strategy Officer



Sunitha Jayaram
Director, Programs



Mahesh Kumar
Director, Programs



Rajbir Singh
Director, Programs



Shailesh Gupta
Director, HR & Admin



Hetal Jalad
Program Manager



Rakhi Anil
Program Manager



Shajimon Kaitheri R
Program Manager



Preetha
Program Manager

FINANCIALS

BALANCE SHEET






BALANCE SHEET AS ON 31.03.2023, ALL FIGURES IN ₹ LAKHS							
LIABILITIES				ASSETS			
	INDIAN	FCRA	TOTAL		INDIAN	FCRA	TOTAL
General Fund	308.94	81.17	390.11	Non-current assets	17.39	7.12	24.51
Grant advances	190.59	269.25	459.84	Current Assets:	162.06	8.26	170.32
Non-current Liabilities	13.67	4.83	18.50	Accounts Receivables	370.86	359.53	730.39
Current Liabilities	159.52	19.78	179.30	Cash and Cash equivalents	122.41	0.12	122.53
TOTAL	672.72	375.03	1047.75	Other Current assets	672.72	375.03	1047.75

FINANCIAL STATEMENT

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR 31.03.2023, ALL FIGURES IN ₹ LAKHS							
INCOME				EXPENDITURE			
	INDIAN	FCRA	TOTAL		INDIAN	FCRA	TOTAL
CSR Grants	1227.98	275.53	1503.51	Project Expenses	1391.84	276.77	1668.61
Other Grants	65.19	0	65.19	Depreciation and Amortization Expenses	1.26	1.29	2.55
Donations	7.24	1.17	8.41	Other Expenses	4.00	5.63	9.63
Consultancy services	179.13	-	179.13				
Other Income	10.60	15.41	26.01				
Total	1490.14	292.11	1782.25	Total	1397.10	283.69	1680.79
Excess of Income over Expenditure (before tax)	93.04	8.42	101.46				
Income tax relating to earlier years	1.00		1.00				
Excess of Income over Expenditure (after tax)	92.04	8.42	100.46				

Auditors: EBS & Co. Chartered Accountants, ICAI Firm Reg No.022309S



-  info@saahas.org
-  www.saahas.org
-  [SaahasNothingsIsWaste](https://www.facebook.com/SaahasNothingsIsWaste)
-  [@saahas_ngo](https://www.instagram.com/@saahas_ngo)
-  [@saahas_ngo](https://www.twitter.com/@saahas_ngo)
-  [saahas](https://www.linkedin.com/company/saahas)

-  **Head Office: Bengaluru**
#21, Ground Floor, MCHS Colony, 5th C
Cross, 16th Main, BTM Layout, 2nd Stage,
Bengaluru - 560076
Ph: 080-41689889
-  **Branch Office: Gurugram**
#897C; Block C, Sushant Lok Phase 1 Sector
43, Gurugram, Haryana.
Ph: 0124-4041713