



SAM FOUNDATION

for Eco friendly Environment



ANNUAL REPORT
2012-2013



Annual Report for the year 2012 - 2013

Sam Foundation proudly presents the annual report for the year 2012-2013, which was a vibrant year with many mind blowing activities resulting in protecting the mother earth with community participation. This year saw many new initiatives on the programme side as well as in the administration and human resources side. Many new members were added into the Sam Foundation fold to carry out the activities in a more systematic manner.

In this year new projects were introduced as an offshoot of the Waste to Energy projects. New product designs were introduced in the project Avthar upcycling products.

This document reports the activities of the following projects in detail:

- ❖ **Waste to Energy projects**
 - a. Community Biogas Plant
 - b. Project Temple Green
 - c. Domestic Biogas plants
- ❖ **Waste to Wealth Projects**
 - a. Charcoal projects
 - b. Vermicompost
 - c. Plastic crushing
 - d. Project Avthar
- ❖ **Training Programmes**
- ❖ **Exhibitions**
- ❖ **Education and Awareness Programmes**
 - ❖ Awareness Generation programmes
 - ❖ Interns to the organization





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About Sam Foundation

SAM Foundation for Eco Friendly Environment is a section 25 company has been promoted by Exnora Green Pammal, a not-for profit organization working in Solid waste Management to impart knowledge on the methods, procedures and techniques of waste management, waste disposal, and pollution control and maintain clean and healthy environment.

The Foundation has been established to provide technical know-how, render consultancy services and prepare overall project plans/studies for government bodies, companies, corporations, corporate houses with special reference to waste disposal and to impart training to personnel from the above fields.

The Foundation is equipped to take up turn key services for air pollution control, waste water treatment, safe disposal of municipal solid waste and other pollution control mechanisms for industries, factories, etc and establishments requiring product recovery, waste management and other similar services.

Vision:

Community's solid and liquid wastes minimized by reducing waste generation and by exemplary decentralized recycling and composting services.

Mission:

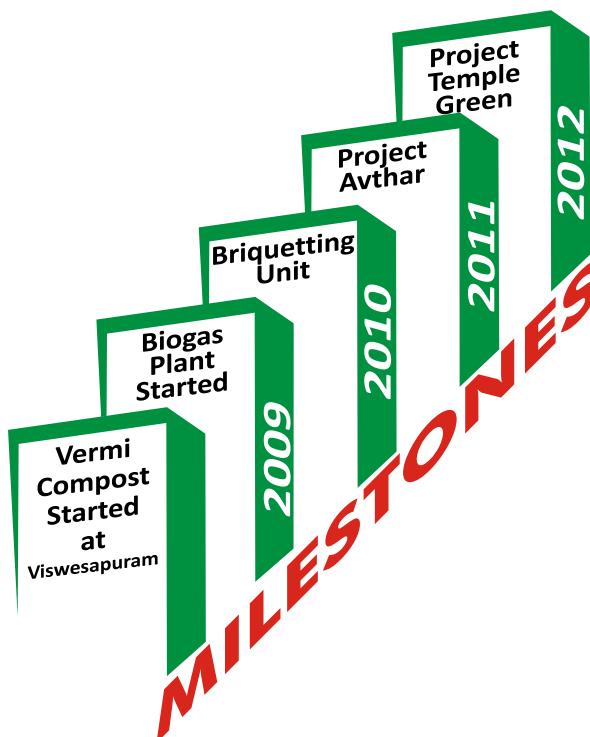
SAM Foundation's mission is to minimize solid and liquid wastes in communities by advocating and demonstrating the principles of "Reduce, Recycle and Reuse" with peoples participation

Our Services

- ❖ Provide cost efficient environmentally sound waste recycling programmes
- ❖ Provide consultancy services in preparation of detailed project plans, execution of projects and operation and maintenance services
- ❖ Capacity building and training programmes on recycling and waste management techniques

Our Projects

- ❖ Vermicompost
- ❖ Briquettes
- ❖ Project Avthar upcycling projects
- ❖ Project Temple Green Biogas plants
- ❖ Plastic Recyclables





Capacity Building programmes

We also provide training for women and unemployed youth in entrepreneurial skills in collaboration with Murugappa Chettiar Research Centre, Taramani

The trainings include:

- ❖ Charcoal/briquette making
- ❖ Mushroom cultivation
- ❖ Indigo plants cultivation.
- ❖ Bio fertilizer production
- ❖ Medicinal plant nurseries
- ❖ Eco friendly arica nut (betal nut) plates
- ❖ Computer "sambirani" (incense sticks)
- ❖ Vermicompost production
- ❖ Up cycling of plastic wastes

Awareness Generation Programmes

Sam Foundation conducts wide spread awareness generation programmes reaching out to the general public using traditional arts and media, street theatres to sensitize on clean and green environment.

Internship Programmes

Sam Foundation provides internship programmes for young professionals providing an opportunity to use the wealth of knowledge and infrastructure to do research on Solid waste, waste to wealth and waste to energy projects.

Accomplishments 2012 - 2013

- ❖ Three new Biogas projects tested and introduced
- ❖ Two new 2 cu.mt Bio gas plants introduced in 2 temples at Pammal
- ❖ More than 1000 pieces of upcycled plastic products produced
- ❖ More than 30 New product designs introduced for plastic upcycling unit
- ❖ Total of 50.6 tons of vermicompost manure produced
- ❖ Average of 30 tons of dry leaves turned into briquettes every month
- ❖ Total of 12 tons of shredded plastics supplied to Municipalities for laying plastic roads
- ❖ Six training programmes conducted for SHGs through SAM Foundation
- ❖ SAM Foundation participated in five Exhibitions on upcycling products
- ❖ One summer camp and one awareness generation programme conducted

Way Forward

- ❖ Capacity building programmes at various levels for Government organization
- ❖ Partnerships with Corporate on CSR
- ❖ New Biogas Projects to be introduced



WASTE TO ENERGY PROJECTS

Waste-to-energy (WtE) or energy-from-waste (EfW) is the process of creating energy in the form of electricity or heat from the incineration of waste. WtE is a form of energy recovery. Most WtE processes produce electricity directly through combustion, or produce a combustible fuel commodity, such as methane, methanol, ethanol or synthetic fuels.

Community Biogas Plants

A considerable amount of food gets wasted in the restaurants. Once this food gets to the landfill, it then generates methane, a greenhouse gas 23 times as potent as carbon dioxide in trapping heat within our atmosphere.

EGP uses bio-methanisation technology to provide solution to this problem and effectively use the waste to produce electricity to illuminate street lights and to produce cooking gas through a model biogas plant at Pammal, Chennai, which has a capacity of producing 25 Cub.mt and electricity output of 5 kVa per day.

The unique feature of this biogas plant is listed as follows:

1. Uses Food waste as input material
 - a. Food waste from canteens at corporate houses
 - b. Food waste from Restaurants in pammal municipality
2. Provides cooking gas for households
3. Provides electricity illuminating 75 bulbs in 3 streets at sankar nagar, Pammal municipality

As part of the Corporate Social Responsibility [CSR], Wabco and HCL facility at Ambattur and Sholinganallur provide their food waste as feed for the biogas plant.

Biogas Power Plant		
Engine & Input Data		
Month	Food waste	Unit of Electricity produced
Apr-12	2491	6229
May-12	2240	5898
Jun-12	7843	7813
Jul-12	7659	7799
Aug-12	6509	7522
Sep-12	7979	8309
Oct-12	9041	8529
Nov-12	12584	7780
Dec-12	8851	7953
Jan-13	6073	7873
Feb-13	7529	8072
Mar-13	6435	8109
Total	85234	91886

Waste to Energy Projects



The chart below shows the amount of food waste fed into bio gas plant every month and the electricity production in units per month. An average of 7,000 kg of food waste used for feeding the bio gas plant every month and as a result of it, an average of 8,000 units of electricity was produced every month. The food wastes are collected from HCL, WABCO facilities from Ambattur and Sholinganallur.

It means that 7000 kgs food waste was offset from landfill area and converted to electricity to provide lighting facility for Shankarnagar area in Pammal every month. Through this a savings of Rs.2000 has been achieved every month.

Engine Power Generation and Food Waste

Input Data in kgs



NEW BIOGAS PROJECTS

Sam Foundation is continuously introducing many new projects through research and development using new techniques to suit the requirements of the users as well as to compliment the environmental protection. Since two years Sam Foundation has done extensive research on smaller and portable bio gas plants for individual and household requirements. The research has been successful and bio gas plants has been developed using FRP Structures.

Domestic Biogas Plants

Sam Foundation wants to popularize the effective use of food waste generated at restaurants and hotels and places where there is generation of considerable food waste and to introduce the zeroing of food waste in their own premises. Sam Foundation has fabricated floating type domestic biogas plants using FRP structures of different capacities starting from 2kg capacity of food waste.

Sam Foundation has successfully installed one plant in a physically challenged children's home at kolathur, two plants for canteens one at Aminjikarai and two other plants for domestic use. All the plants are working effectively with maintenance consultation given by Sam Foundation.



At present there are two types of domestic plants available with Sam Foundation one is the floating type biogas plants and the other is the static type FRP domestic plant. Sam Foundation is currently experimenting with a horizontal digester, which Sam Foundation is hopeful to introduce in the market soon.



Temple Green Project

Sam Foundation introduced a new concept called the Temple Green Project, where the waste from the temples such as flowers, milk, prasadham, fruits and cow dungs are used to produce biogas for preparing prasadham in the temple premises itself. Through this project many corporate houses and social action groups like Rotary International are encouraged to sponsor for the temples as part of their Corporate Social Responsibility programmes. Two successful temple projects have been completed and running well



Inauguration of Biogas Plants at Arkeeswarar Temple

On 15th December 2012, the inaugural function of the Temple Green Biogas Plant was conducted at the Arulmigu Aarkeswarar and Suriamman Temple at Pammal, which was sponsored by Ms Manjula, President, Inner Wheel Club of Chennai Gemini with the support of Thiru. Anandha Mudaliar and Brothers, Honorary Trustee, Arulmigu Aarkeswarar and Suriamman Temple, the plant marketed by Sam Foundation for Eco Friendly Environment and maintained by Exnora Green Pammal.

The inaugural function was arranged by the Inner Wheel Club of Chennai Gemini with the support from Exnora Green Pammal. Swamiji Sadachara Das Sharma of Hare Krishna Movement cut the ribbon and inaugurated the biogas plant, with Ms. Vasumathi Marimuthu, District chairman of Inner Wheel District 323 lighting the biogas stove and the traditional boiling of milk.

Earlier the function started with the Thamizhthai vazhthu and the traditional lighting of kuthuvilaku and it was well attended by Ms. Mangalam Balasubramanian, Chairman, Exnora Green Pammal, the Chairman of Pammal Municipality, Mr. C.V. Elangovan, Mr. Vinayam (4th ward councilor) and Mr. Thanigaivelu, Trustees of Aarkeswarar and Suriamman Temple and Guruvayurappan Temple Trustee. Earlier in the day, Ms. Lakshmi, Regional Director of Municipal Administration for Chengalpet Region visited the Biogas plant along with her commissioners and engineers.

Through her association with Ms. Mangalam Balasubramanian, Ms. Manjula came to know about the Temple Green project and having witnessed the successful operation of project implemented in other temples, liked to adopt and implement the project Temple green. Thus the project was implemented at the temple and many more such projects in the long run.



Waste to Wealth Projects

Waste to wealth projects are projects which can generate revenue through upcycling, recycling and recovery of resources and it provides livelihood opportunities for many besides reducing the burden of end up in the landfill.

Briquettes making Project at Pammal

The coconut leaves from the wards are used for making briquettes, which are used for industrial boilers. The briquettes prepared. Charcoal is the blackish residue consisting of impure carbon obtained by removing water and other volatile constituents from animal and vegetation substances. Charcoal is usually produced by slow pyrolysis, the heating of wood, bone char, or other agricultural substances in the absence of oxygen environment.

Charcoal briquettes

1. Long cooking time
2. High-end product
3. High calorific value
4. Consistent quality
5. Very long burn
6. Made with natural components



Charcoal pouring



Briquettes outlet



Briquettes drying



Briquettes

An average of 30 tons of dry leaves are collected from Pammal municipal solid waste management programme every month and using the briquetting technology an average of one ton of briquettes was produced every month during the period 2012-13. It was sold to tea shops and ironing shops for Rs.20 per kg.

Vermicompost Production at Pammal

Vermicompost is rich in NKP (nitrogen 2-3%, potassium 1.85-2.25% and phosphorus 1.55-2.25%), micronutrients, beneficial soil microbes and also contain 'plant growth hormones & enzymes'. It is scientifically proving as 'miracle growth promoter & also plant protector' from pests and diseases. Vermicompost retains nutrients for long time and while the conventional compost fails to deliver the required amount of macro and micronutrients including the vital NKP to plants in shorter time, the vermicompost does.

The segregated organic waste from the solid waste management programme is brought to the compost yard and using vermins the waste is composted and made into rich organic manure suitable for agriculture as well as horticulture.

The vermicompost thus prepared is packaged in the name of ExOrCo Excellent Organic Compost and sold @ Rs.15 per kg. During the period April 2012 to March 2013, Pammal facility has produced 50.6 tons of vermicompost

Vermicompost manure April 2012 to March 2013

Month	Vermicompost produced (tons)
Apr-12	2.2
May-12	3.2
Jun-12	4.2
Jul-12	4
Aug-12	4.8
Sep-12	3.8
Oct-12	4.2
Nov-12	4.2
Dec-12	4
Jan-13	5.2
Feb-13	5.8
Mar-13	5.2
Total	50.6

Vermicompost produced in Tons

■ Vermicompost produced



Plastic crushing unit at Pammal

Segregation of waste is practiced in Sam Foundation right from the source of collection. The pet bottles are segregated and collected from the solid waste management programme and they are crushed using a plastic crusher and sent to pyrolysis unit for further process.

The thin plastic covers are not recyclable and the only ways of disposing them are incineration or landfilling. One of the best uses of plastic waste is to use it alternatively for something or along with something by recycling or upcycling.

Plastic Roads have been tried and tested and have proved to be an eco friendly, efficient way of road construction. Many municipalities have tried this out and Sam Foundation has supplied the shredded plastic covers for this purpose. The thin plastic covers collected from the SWM programmes are shredded using a plastic shredding machine and then mixed into bitumen to create a strong bond. This plastic is melted, not burned and therefore there is gaseous residue. It is completely eco-friendly. The other advantages include:

- Longevity: upto 3 times that of the current methods of road construction
- No cracking or potholes
- Resistance to water
- Reduced cost of maintenance
- Reduced stress on bitumen which is not an unlimited resource either.

We have supplied shredded plastic covers to the following municipalities:

- Arakonam municipality 250 kg
- Pallavaram municipality 2.5 tons
- Maraimalainagar municipality 2 tons
- Avadi municipality 1 ton
- Pammal municipality 5 tons



Project Avthar Upcycling Product

Upcycling is the process of converting waste materials or useless products into new materials or products of better quality or for better environmental value. Water pouches and plastic carry bags find their usefulness by using the upcycling process. The waste plastic pouches and carry bags that are collected from the solid waste management programmes are washed, cleaned and made into plastic thin sheets and fed into handlooms to make useful products. By this process, the waste plastic that would otherwise go to the landfills and clog to prevent water from entering the soil is averted.

Thanks to this process, it gives employment opportunities to the underprivileged as well as helps in reviving the handloom industry.

A range of wide variety of products are made using this technology for office, personal and household utilities and it uses minimal or no power to create a product.

Sam Foundation does not want to introduce this product as yet another product in the market, but wants the customer or the buyer to understand the significance of the product and how the customer is contributing to the environment by purchasing such a product. Hence Sam Foundation has not launched this product as a commercial one, but has introduced it through word of mouth and through exhibitions and road shows.

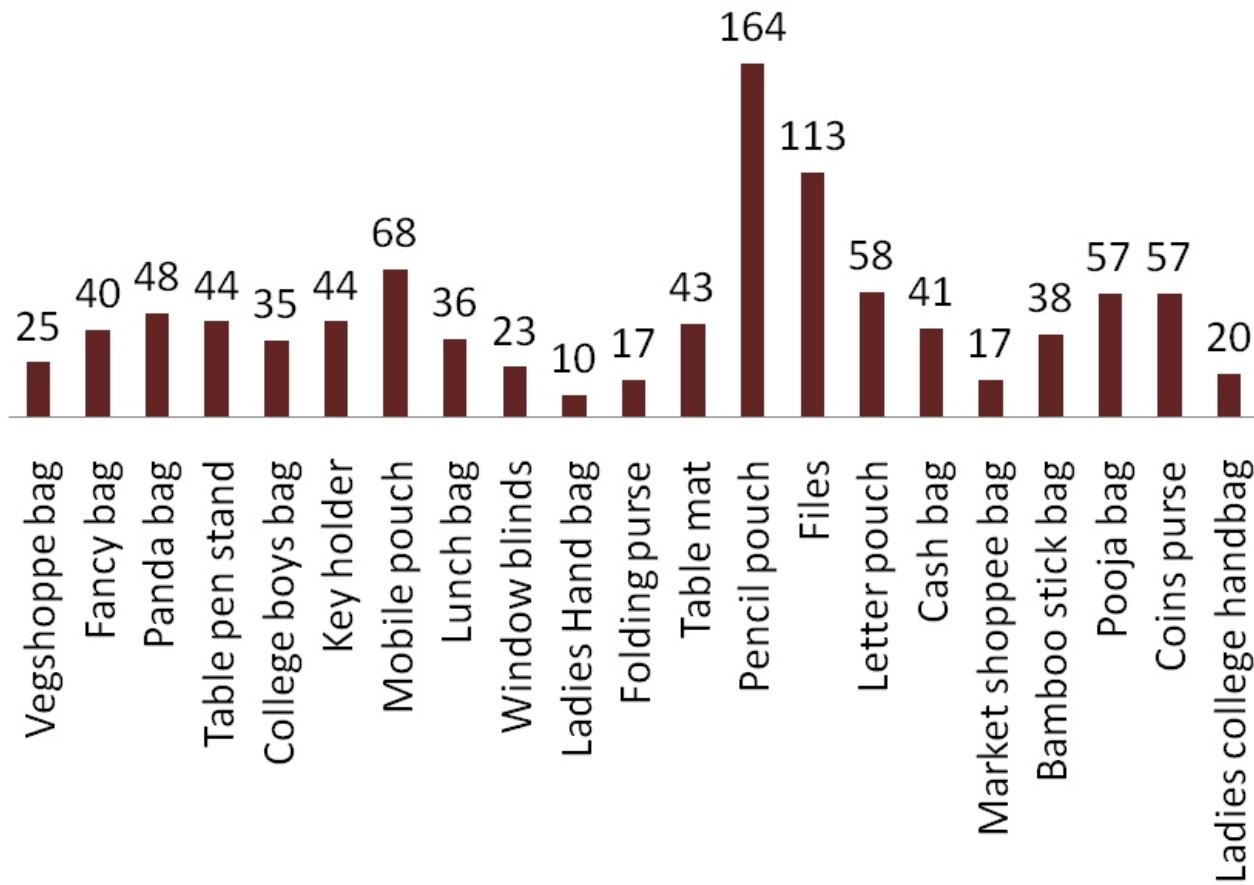


Upcycling Process



Avthar Products Production Table

April 2012 to March 2013



Waste to Wealth Projects

TRAINING PROGRAMMES

SRM University Potheri 7th April 2012

Students of school of nursing from SRM university from Potheri visited Sam Foundation and the students were given an introduction to waste, details of resource recovery and Vermicomposting methods.

Guduvancheri Municipality April 2012

Around 10 workers of the municipality were trained on segregation of garbage of their municipal waste and were sensitized about the probable resource recovery and the recyclable properties of some waste materials.

Tambaran Municipality June 2012

Training on plastic crushing was given to 250 SHG members representing 25 SHG groups and also more than 12 Sanitary inspectors and mastry from the surrounding municipalities were given training on plastic carry bags shredding. The machinery was in place and they were trained on operating the machinery as well as how to segregate the plastic waste of crushable quality.

Briquettes and Aricanut plate training August 2012

Around 25 SHG members from Gowl Bazar area were trained on briquettes making and Aricanut plate making. The SHG members were given details on sourcing and processing of the coconut leaves from the solid waste as well as on making Aricanut plates

Recycling of waste materials August 2012

Training on recycling of waste materials was given to students of Sri Ram School of Thiruneermalai on making useful products from plastic waste and on segregation techniques in the month of August 2012.

Training on Mushroom Cultivation

MCRC and Sam Foundation jointly conducted training programmes on mushroom cultivation, briquetting and Recycled paper for SHG women in pammal area on the 11th and 12th December 2012.

At the model biogas plant, a mushroom cultivation shed was constructed. Around 7 SHG women from the pammal area attended the training programme and got trained in this skill as a livelihood option programme. Ms. Shivasankari of MCRC trained the SHG women. The mushroom seeds put in the shed started to grow and gave a yield of approximately four kilos



Recycled paper Training - 11th and 12th December 2012

At Exnora Green Pammal office, the training session for Recycled paper was conducted for 8 SHG women from the pammal municipality area. The different process involved in preparing the recycled paper was demonstrated and the women also participated and did it by themselves. The trainers encouraged them to do the different process and get hands on experience in it.



Briquettes making - 13th and 14th December 2012

At Natham-Kariacheri Village, near kalpakkam, a training session for briquettes making was conducted for 35 and 40 SHG women from the natham-kariacheri village for 2 days on the 13th and 14th Dec 2012. The training was given by Mr. Ravichandran from MCRC. The facilities were provided by Sam Foundation for Eco Friendly Environment.

Pozhichalur Municipality 28th December 2012

Around 15 SHG members from Pozhichalur municipality were given training on Vermicomposting techniques

EXHIBITIONS

E-bay exhibition on 8th October 2012

On the invitation of Mr. Karthic Srinivas of Give Team of E-bay Paypal pvt ltd, Sam Foundation conducted an exhibition cum sale at their office premises on 8th October 2012 on plastic upcycling products

Around 50 different items were kept for display and around 50 people visited the stall. The visitors to the stall showed great interest in the product and were told about the importance of the product and how it offsets plastic waste getting into the soil. Impressed on the green value, some of them placed orders for the product.



EAT Festival at Elliots Beach from 12th to 14th October 2012

On the invitation of Rotary Club, Sam Foundation participated at the EAT festival conducted by Rotary from the 12th to 14th October 2012.

Sam Foundation shared a stall space along with Go Green and displayed the Biogas domestic plant all the three days of the Festival.

The staff of Sam Foundation explained about the Biogas plant and the details of its installation and use to the visitors. Many visitors visited the stall and about 32 visitors recorded their visit and their interest in knowing more about biogas.



Exhibition cum sale at Virtusa, DLF building, Porur

On the 14th December 2012 there was a Conference arranged at Virtusa with Sam Foundation, EAI by Virtusa India team and Sri Lanka team and an exhibition of the Projects of Sam Foundation, such as Temple Green project, the project Avtar and the TREE courses.

The message on upcycling of plastic waste was conveyed through the products on display as to the harmfulness of littering plastic bags in the street and why the pilferages to the landfills and water bodies should be arrested and how these up cycled products are effective in the bigger context was shared and demonstrated to the employees of Virtusa. The response of the Virtusa's employee was so positive that the sales of the products were very good and there had been some placement of orders as well.

Exhibition at Great lakes Institute of Management 9th February 2013

Great lakes institute of management, Kalpakkam invited Sam Foundation to their first Karma Yoga Annual Convention, held on the 9th of February 2013 (Saturday). It was an all-inclusive platform that brought together farmers, businessmen, self-help groups, non-governmental organizations, students, local Panchayat leaders and every stake-holder relevant in the rural development scheme together under one roof. The programme was conducted with the festive air of a carnival, where Sam Foundation exhibited its products for exhibition cum sales cum awareness generation among the college students, villagers and farmers in the locality to know about the importance of recycling plastic waste. Some of the Vermicompost packets were also kept for sale at the stall.



EXHIBITIONS

L&T exhibition 2nd March 2013

March 2nd was observed as Green Day at the L&T Campus to commemorate the 5th anniversary of L&T Project Greenhands. The EHS and CSR team in association with ECC Recreation Club presented a one day fun-filled meaningful program for school students as a part of National Safety Day (March 4) celebration. Through Maanavasenai Trust, Sam Foundation got the opportunity to participate and exhibit our products in the programme.



AWARENESS GENERATION PROGRAMMES

In May 2012, Sam Foundation organized a community awareness programme on the importance of source segregation, converting kitchen waste into manure through composting and segregating paper and plastic waste that can be recycled.

It initially started with awareness campaign on the concept through Street Play followed by door to door field work and distribution of 'Green Bag' in each house for the segregation of dry waste in the bag which will be recycled as useful products.



C.V. Elangovan, Pammal Municipality Chairman, handing over covers to residents for segregating recyclable waste.



Street play at Pammal on Waste Segregation

Sam Foundation deployed a resource team based in Tiruchi, "Mugavari" to perform a street play in Krishna Nagar in Pammal Municipality. Mugavari has been reaching out the community on issues relating to education, health and environment through street plays and other direct intervention programmes. The street play is part of efforts by Sam Foundation, with support from Pammal Municipality, to ensure that best solid waste management practices are followed. Plastic segregation covers were distributed to the general public to sensitize them on the implications of global warming.

Summer camp for children- May 2012

Sam Foundation initiated a month long summer camp from 1st May to 30th May 2012, in order to reinforce the concept of Source Segregation and to develop Children's interest towards environment, and to bring out children's talents like painting & writing slogans to convey enviro messages. Children learnt the skill of doing things differently & creatively helping them to shine as outstanding student. In follow-up to this the Children painted picture and wrote slogans with the motto of conveying environmental messages to the public. The workshop was mainly organized with the objective of ensuring children's responsibility in protecting their own environment.

The children were appreciated for their participation by issuing certificate and prizes in the valedictory function.



The World Ozone Day 16th September 2012

The World Ozone Day was commemorated on 16th September 2012 by the Pammal Magalir Federation and the Department of Environment for the state. The Director of the Department of the State for Environment Dr. H. Malleshappa, I.F.S flagged off a rally to create awareness among the locals on the importance of the Ozone layer and the possible ways to arrest depletion of the layer and planted trees at the community biogas premises earlier in the day.

Since 1995, on 16 September each year, the International Day for the Preservation of the Ozone Layer is celebrated. This date has been designated by the United Nations General Assembly in its resolution 49/114, to commemorate the signing of the Montreal Protocol on Substances that Deplete the Ozone Layer. This commemoration around the world offers an opportunity to focus attention and action at the global, regional and national levels on the protection of the ozone layer.

Around 50 women from the self help groups in Pammal joined together in an awareness rally chanting slogans to plant more trees, to not to use plastic products, to reduce the use of vehicles and to use cycles often, to do rainwater harvesting and not to cut trees. The women members gave away handbills containing awareness message to the locals and demonstrated by collecting waste product and materials on the road.

Er. Kirubakaran from the Tamilnadu State Pollution Control Board gave an overview on what an ozone layer is and how it gets affected by the negligence of humans and the waste created by them in his speech. He appealed to the participants of the rally to take the awareness of not using plastic bags and to go back to the days where there was little usage of plastics. In his speech, the state coordinator for the national Green Corps Mr. L. Durai, insisted on the importance of growing greeneries in the locality and appealed to create awareness on trees plantation.

In his Special address, the Director of the Department of the state for Environment, Dr. H. Malleshappa, I.F.S, congratulated the many good activities of the Pammal Magalir Federation on Environmental issues. He wished to continue their good work and appealed to the members to continue to give patronage to this good cause. Accepting the wishes, Ms.

Mangalam Balasubramanian said that their motto is to think globally, act locally and do domestically and reminded the Department of the state for Environment on the proposal sent by the Federation for planting trees on the Sengazhaneer Hill and the successful completion of the de-silting of the temple tank, which has increased the water table in the area to 15 feet from 80 feet.



VISITORS TO THE ORGANISATION

Sam Foundation's wide range of activities attracts many visitors who like to visit the facility for exposure visit ranging from Government, Municipality and Cantonments, International Teams, Corporate, NGOs, Colleges and Schools. Some of them come for learning for academic use, some others on replicating the Pammal Model, yet others visit to partner with Sam Foundation convinced by the work and environmental benefits that it provides the society.

Government Visitors

RDMA visit 27th March 2012

The Regional Director of Municipal Administration of Kancheepuram District visited the facility on 15th December 2012 and commended the excellent work performed at the Community Biogas and Vermicomposting shed and asked her engineers to strategise to do such work in other municipalities.



Cantonment of St Thomas Mount and Pallavaram March 2013

Estate Officer from the Cantonment of St. Thomas mount visited Pammal facility and witnessed the works undertaken at the door to door collection, segregation, Community Biogas plant and Vermicompost shed and wanted to replicate the Pammal model at the Cantonment of Pallavaram.



Municipality

Sanitary inspectors, Engineers and Commissioners from Chennai Corporation and neighbouring Municipality visit Pammal Municipality for getting to know about the effective solid waste management programme implementation and monitoring activities and implement in their own Municipalities.



Foreign Delegations Visit

US Embassy 9th February 2013

Mr. Benjamin Embury and Ms. Michelle from the US Embassy visited the pammal facility and a detailed presentation was given to them on the solid waste management programmes carried out in pammal. They were particularly interested about the community biogas plant and the Vermicomposting process. They were also briefed about the plastic upcycling unit. They were interested on the empowerment components for women and the sustainable livelihood options for them.

Australian delegation 7th Jan 2013

A delegation of 17 members from Australia visited Sam Foundation on 7th Jan 2013 under the leadership of Ms. Emma, Coordinator. Mr. Mike Dendle, Managing Director, The centre for Social Response, Australia was also among the delegations. The delegation consisted of mostly engineers from varied discipline, who are either students or working for some organization. The delegation was given a small presentation on Sam Foundation and its activities.

The delegation was escorted to visit the programme activities in the field level and a demonstration of the paper recycling bag making activities was also demonstrated to them. The delegation visited the biogas plant at Suriamman Temple and the temple tank adjoining the temple. The delegation also visited the community biogas plant and the mushroom shed.



Youth Organisations

Youth for Seva 10th October 2012

Youth For Seva (YFS) is a youth voluntary service organisation started in April 2007 in Bangalore to provide opportunities for youth who wanted to take active part in community development despite time constraints. The goal of YFS is to support schools, NGOs, government hospitals and other organizations in the social sector through volunteers who can help them mitigate some of their shortcomings and challenges. Around 15 young people visited Sam Foundation and learnt about how the environment is affected and what could be done as civic responsibility to stop the damage caused to mother earth as well as how to manage the damage already done.



Sri Ram Engineering College October 2012

Youth members from Sri Ram Engineering College visited the facility and had a discussion with the managing trustee on the different kinds of environment protection works done at Sam Foundation.

EAI October 2012

Around 50 members who were CEOs and possess prominent position in the industry and different corporate offices visited Sam Foundation and got to know how Sam Foundation is working in the field of waste to energy and waste to wealth projects. The team was amazed to see the work done through the upcycling unit and was interested in purchasing some of the items for their use.

Partner Organization Visit

PEPSICO Visit 28th Dec 2012 and 14th March 2013

Mr. Sunil Duggal, Corporate Affairs, PEPSICO visited Sam Foundation on 28th December 2012 and witnessed the programme activities of Sam Foundation on that day.

After a brief presentation on the history of association and programmes of Sam Foundation, Mr. Sunil was escorted to witness the Door to door collection activity at VOC nagar 3rd street. Ms. Mangalam explained on how the door to door collection mechanism happens and source segregation happening at the cart itself. The primary and secondary collection and transportation was also demonstrated to him and how their funds find a meaning in the implementation of the programme.

Mr. Sunil was then escorted to the Suriamman Temple where a new biogas plant has been installed under the Temple Green project. He also visited the suriamman temple tank and an explanation of how the desilting of the tank was carried out in 2001 and how the ground water level recharge process has benefitted the locals and neighbours. Mr. Sunil then discussed about the way forward and the requirement for 2013 along with the core planning team.



Later in the month of March 2013, Muna Ali, CSR programme, PEPSICO visited Pammal Facility as part of her partner orientation and visited the activities such as door to door collection and segregation activities. She also interacted with the community members on their participation and Sam Foundation's contribution in the solid waste programme.

Muna also met the VOC Nagar Association members and interacted with them about the association and Sam Foundation relationship components. Later in the day, she met the Green Ambassadors and interacted with them about how working with Sam Foundation has improved their life style and how they were before coming to work with Sam Foundation. She commended that the workers have all been dressed in uniforms and using gadgets required for the work.



TATA Global Beverages Visit - 5th March 2013

A four member team from TATA Global Beverages project visited Sam Foundation and the works carried out with regards to the Plastic upcycling unit. The entire process starting from door to door collection, Source segregation to secondary transportation of the plastic carry bags to natham-kariacheri village was shown to them. The team met with the workers at the plastic upcycling unit at natham-kariacheri village and interacted with them on how their life has been impacted - changed or affected by working in the unit and how they are capable of leading their lives efficiently. The interaction was focused on the empowerment of the SHG women who are coming from the SC/MBC community. Earlier in the day, the team was presented with the case studies of the workers depicting how Sam Foundation has impacted their lives and how positive their lives have turned out to be.



Visitors

Delegates from ITC

Mr. Sivaraman and two other delegates from ITC limited visited the Pammal facility and expressed their commendation on the activities performed at the community Biogas plant and through the plastic upcycling projects.



Volunteering Events

Walt Disney Volunteers August 2012

Walt Disney volunteers participated in yearlong programmes, once a quarter. Nearly 50 walt Disney volunteers engaged in greening activities and developing Eco friendly student parks. 100 trees were planted. Arecanut plates were produced.



HCL and Wabco volunteering participatory event

April 2012

Nearly 5000 to 8000 officers in these two firms volunteered in segregating waste at source to facilitate better resource recovery and reduce the quantum going to landfills



Ebay Volunteering

Through the Give Team E-bay staff members volunteered to conduct exhibition at their premises and also installed a biogas small plant as their corporate social responsibility in an orphanage at kolathur.



Student's Internship Programme

- ◆ Australian Student, Ms. Rosie, did a one year project on community Biogas
- ◆ One month intensive block placement was completed by Ramya, MSW student from Loyala college, as part of her master's degree in the month of May 2012
- ◆ Research work by Dr. Sowmya, a Ph.D student from Anna university on waste water recycling at upcycle unit during March to July 2012 was conducted
- ◆ Ms. Mary baitihun from Meghalaya was deputed from Kanthari organization, kerala for a six weeks internship during the months November to February 2012.
- ◆ Mr. Sascha Ternes, a bachelors degree engineering student from Germany completed three months internship on a new project on horizontal digester, as a prerequisite to his masters engineering college during October 2012 to March 2013

DOWNTOWN

Disney staff brighten park in Pammal

As part of their corporate social responsibility project.

K. MANIKANDAN

Residents of Pammal still remember a small patch of land adjacent to Anna Salai that was an eyesore. Garbage from many localities used to be dumped at this patch of land abutting the Surya Arman Temple Tank. The tank's bund too was taken over by a dense outgrowth of vegetation of thorny bushes. People used the spot as public convenience and the place was useful for miscreants.

But that was in 2000. Today, the tank presents a serene look, filled with clean water. The tank bund has been created into a walker's pathway and the dump yard has been converted into a children's park. Members of Exnora Green Pammal, led by Mangalam Balasubramanian, initiated a movement to transform the land around the temple tank 12 years ago and in a matter of three months, it was changed completely.

"For 12 years now, children have been using the park. The park has a few sculptures that we scooped out while desilting and deepening the

tank," recalls Ms. Balasubramanian. In the evening hours, the park becomes lively with children enjoying a breath of fresh air in the open and playing in the equipment inside the park.

To spruce up the park, a team of 27 employees from Walt Disney paid a visit on April 13. They cleaned the park, painted the doors and also came up with a series of paintings on the walls of the park. According to the staff, they volunteered to clean the park as part of their corporate social responsibility project.

The temple tank is spread over five acres and nearly one-fourth of it has been created as a 'settlement tank'. Due to the natural gradient, grey water from many areas of Pammal and Shankar Nagar made their way into the tank.

To prevent this, they had created the settlement tank, where the sewage would stagnate and sediments would settle down. Once in three months, they would pump out the sewage and this way, they ensure that not a drop of sewage contaminates the tank. Even during Monsoon, only residual water would enter the tank, while the sediments would settle down in the settlement tank.

Compared to many other water bodies in the southern suburbs of Chennai, quality of water in the tank was far better, Ms. Mangalam added.

GIVING A FRESH LOOK: Volunteers of Disney sprucing up the children's park in Pammal.

PHOTO: A. MURALITHARAN



**SAM FOUNDATION FOR ECO FRIENDLY ENVIRONMENT**

1, 22ND STREET, SRI SANKARA NAGAR,
PAMMAL, CHENNAI - 600 075.

BALANCE SHEET AS ON 31/03/2012

SOURCES OF FUNDS	SCHDULE	31.03.2012	31.03.2011
SHARE HOLDERS' FUNDS			
Share Capital	I	100000	100000
Un Secured Loans	II	1030000	850000
		<u>1130000</u>	<u>950000</u>

APPLICATION OF FUNDS**FIXED ASSETS**

Gross Block	III	950000	950000
Less: Depreciation		<u>238681</u>	<u>711319</u>

CURRENT ASSETS,**LOANS & ADVANCES**

Cash and Bank Balances	IV	107878	172679
Loans & Advances	V	<u>60000</u>	<u>0</u>
		<u>167878</u>	<u>172679</u>

Less: CURRENT LIABILITIES**AND PROVISIONS**

Outstanding Liabilities	VI	<u>0</u>	<u>167878</u>	<u>66000</u>	<u>106679</u>
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MISCELLANEOUS EXPENDITURE**TO THE EXTENT NOT WRITTEN****OFF OR ADJUSTED**

Profit & Loss Account	VII	<u>250803</u>	<u>250803</u>	<u>17071</u>	<u>17071</u>
			<u>1130000</u>		<u>950000</u>

Place: Chennai

Date : 03.09.2012

Compiled as per books and information furnished

For SAM FOUNDATION FOR ECO
FRIENDLY ENVIRONMENT

Managing Director

For Masilamani & Co.,
Chartered Accountants

V. Ramalingam
Partner

Director





SAM FOUNDATION FOR ECO FRIENDLY ENVIRONMENT

1, 22ND STREET, SRI SANKARA NAGAR,
PAMMAL, CHENNAI - 600 075.

PROFIT & LOSS ACCOUNT FOR THE YEAR ENDED 31/03/12

	SCHEDULE	31.03.2012	31.03.2011
INCOME			
Solid Waste Mgt Receipts		10000	10000
Training Charges		0	325000
		10000	335000
EXPENDITURE			
Bio Gas Plant Expenses	I	39200	0
Administrative Expenses	II	84001	225321
Maintenance Expenses	III	5600	0
Depreciation		114931	123750
		243732	349071
NET LOSS		233732	14071

Place: Chennai

Date : 03.09.2012

Compiled as per books and information furnished

For SAM FOUNDATION FOR ECO
FRIENDLY ENVIRONMENT

Yanganam R
Managing Director.

S. Venkateshwaran
Director

For Masilamani & Co.,
Chartered Accountants


V. Ramalingam
Partner





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