



Package Learning Materials on Environment (PLANET) 3 “Waste Management”

Production and Utilisation Scheme in India

Implemented by

Centre for Environment Education

and

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CEE
Centre for Environment Education





PLANET 3

Waste Management

Phase 3 Report

Kerala, INDIA



Dissemination and Utilization of

PLANET 3

Waste Management

Malayalam Version

Phase 3 Report

Submitted by

CEE

Centre for Environment Education

Introduction	1
Objectives of the Project	3
Inputs of Resources	5
Implementation	6
Evaluation	17
Conclusion	19
Annexure I	20
Annexure II	25
Annexure III	32
Annexure IV	35
Annexure V	37
Annexure VI	38

About the Organization

Centre for Environment Education (CEE) is a national Institute engaged in developing programmes and materials to increase awareness about the environment. Established in 1984, CEE is supported by the Ministry of Environment & Forests, Government of India and affiliated to the Nehru Foundation for Development.

CEE's primary objective is to improve public awareness and understanding of environmental issues with a view to promote the conservation and wise use of nature and natural resources.

To achieve these we work in the following thrust areas: EE through Schools, EE through Higher Education, EE through Mass Media, EE through Experiencing Nature, EE through Interpretation, EE for Environment and Development Policy, EE for Industry, EE for Natural Resource Management, EE in the Urban Context, Training and Networking.

CEE was involved in the development, dissemination and management of several environmental education (EE) projects over the years on solid waste management, and also has developed over the years expertise in developing local versions of existing materials using a process of adaptation and translation.

As part of Phase I in this project CEE undertook an extensive adaptation and translation process. The second phase included a pilot project of the dissemination of the Local Version of PLANET 3 Package in some school in Kerala.

Summary of the Project

On completion of the adaptation, translation, production and dissemination of the of the PLANET 3 package in Malayalam with schools in the formal system, CEE and ACCU decided to try out one more pilot activity of taking the package to the community. This was a three month pilot project to explore the linkages between formal and the non-formal systems.

The project began with identifying a like minded partner to implement the project. Centre for Overall Development (COD), Thamarasserry, Kozhikode agreed to partner in this project. COD had also been involved in taking out the material to the schools through their eco-club programmes.

The first part of the project was to identify three Panchayats (Local Self Government) where the project could be implemented on a pilot basis. Thamarasserry, Pudupadi and Kavalumpara were the three Panchayats that the project was implemented in. In consultation with the members of the Panchayat three wards in each were selected. A preliminary meeting was held with all the stake holders to introduce the project and to plan the implementation of the same. Once this was done the programme was introduced at each of the Panchayats by the respective area coordinator and the elected members of the Panchayat.

The programme was implemented by having neighbourhood meetings, general meetings, school programmes, exposure tour, mobile exhibition, etc. The mobile exhibition was conducted as one of the objectives was to reach out to the rest of the Panchayat.

Summative Evaluation

The project was received well in the areas that it was implemented in. Several of the homes that participated in the neighbourhood meetings have started vermicomposting at their homes, the elected bodies have on their own come out with plans to manage solid waste, and this would help in the sustainability of the programme. Schools have initiated programmes that involve the students and their parents. The project has been effective in the role as a facilitator, as it has proved to be a good vehicle to communicate the concepts of managing waste and has played a supportive role to the larger programme that the Panchayats are doing on their own.

Objectives of the Project

To work with the non-formal section of the society in Kerala on a pilot basis to create awareness about the problems of solid waste management, and on how it can be managed.

Expected outcomes and impact - immediate and long term

Better awareness on the issues related to waste and its management, and to inculcate the habit of segregating waste at source. The awareness activities that would be done at the community level will help the residents to realize that waste is an environmental problem and that if managed properly it becomes a useful resource. To work with the local Panchayats to continue with the programme and scale it up to cover the entire area and to explore the possibility of making the programme sustainable.

Background Information and Conditions

The project was implemented in three Panchayats in the district of Kozhikode in Kerala, a southern state of India. The project was introduced at three wards in each of the three Panchayats.

The Panchayats of Kerala are finding it difficult to manage solid waste as the amount of solid waste is rapidly increasing. The availability of land for having dedicated sites to dump waste is difficult to get, due to the high density of population in Kerala.



Specific Target Groups

The target group for this would be the community as a whole. This would comprise of several sections. Some of them being: local government bodies, youth groups, traders, women group, educational institutions, etc.

Three wards in each of the Panchayats were selected.

Kavilumpara Panchayat

Thamaraserry Panchayat

Pudupadi Panchayat

Name of Panchayat	Total number of Wards	Total number of Households in the Panchayat	Ward numbers selected for the pilot project	Total number of Households in the selected wards
Thamarasserry	18	11230	4, 5, 13	1280
Pudupadi	20	7763	1, 9, 18	1539
Kavilumparara	15	4966	8, 9, 15	1045

Materials Utilized

The adapted version of the Planet 3 Package, along with the posters developed by CEE and the Clean Kerala Mission (an initiative of the Government of Kerala to manage solid waste) were used. The poster developed was further adapted and made into a hoarding, with additional information taken from the facilitators guide. The hoardings were placed at critical locations where a lot of people gather.

60 sets of the material was given to each of the Panchayats. The material was given to each of the Kudumbashree (Self Help Groups) after an orientation for them.

Human Resources

The project was implemented in a team mode within CEE and also with the partner agency—COD. The main team comprised of colleagues from both CEE and COD—Ms. Mamata Pandya, Sunil Jacob, Fr. Mathew, Ms. Jessy, Ms. Thressiamma Thomas, Somini Joseph and Thressiamma. The team was supported by Ms. Nandini Ram, and local resource persons who came in from time to time based on requirements.

Financial Resources

The major part of the financial resources for the pilot programme has come from ACCU. CEE and COD has considerably contributed in terms of meeting expenses related to staff time and infrastructure. The Panchayats have contributed to the installation of the hoardings at public spaces in some cases provided infrastructure support and met some expenses related to organizing some of the training programmes.

Management of the Project

The core team of the project—Mamata, Sunil and other colleagues were based at Ahmedabad and Bangalore and have been responsible for the overall coordination of the project. The implementation of the project was done primarily from CEE's Southern Regional Cell based at Bangalore. A partner agency Centre for Overall Development (COD), based at Thamarasserry was identified and partnered in the project.

Ms. Jessy was appointed as local coordinator based at Thamarasserry. In addition to her, three Area Coordinators were appointed for each of the Panchayats, they were Ms. Thressiamma Thomas, Ms. Somini Joseph and Ms. Thresiamma. The team was supported by the implementing committee and advisory committee members selected locally at each Panchayat. The committees had representation of representatives from youth, Kudumbashree, elected representatives, school teacher, etc.

Sunil based at the Bangalore office, regularly visited Kozhikode to review and monitor the progress of the project, visiting the Panchayats and discussing the progress and difficulties in implementing the project. The project was managed by personal visits, phone, e-mail, etc., from Bangalore, having continuous contact with Ahmedabad office.

Implementation Structure of the Project

The various stages in the implementation of the project was

- i. Selecting a partner
- ii. Identifying the Panchayats and selection of Wards
- iii. Planning Meeting with Stakeholders
- iv. Introducing the programme at the Panchayats
- v. Monitoring and Review
- vi. Exposure Tour
- vii. Reaching out to the rest of the Panchayat

i. Selecting a Partner

COD was already a partner in the previous phase of disseminating the Planet 3 Package in Kozhikode through their eco-club schools. CEE and COD were discussing/exploring ways by which the programme on solid waste management could be introduced to the community. It was at this time that ACCU also expressed an interest to try out a pilot project of taking the Package into the community. Thus CEE, ACCU and COD decided to partner in this project.

ii. Identifying the Panchayats and selection of Wards

A preliminary meeting was held with COD to discuss and plan the programme. At this meeting the criteria for selecting Panchayats were decided. The criteria followed was that the Panchayats selected would be a mix of urban and rural, it has a school that actively participated in the dissemination phase of the Planet 3 Package, the PTA in the school is strong and the concerned school has a strong community link and involvement in community activities.

The next step was the selection of a coordinator and area coordinators for each of the Panchayats. A planning and orientation programme was held for this team, during which some more refining of the plan was done. The area coordinators were then given the first responsibility which was to ensure that their Panchayat is well represented at the first meeting and to also carry out a random survey to get an idea of the type and amount of waste that is generated in their area. A standard survey format was developed and volunteers identified for conducting the survey after an orientation to them. In one of the Panchayats a college in the neighbourhood was oriented to do the survey of the commercial establishments.

Once the Panchayats were identified, CEE and COD visited each of the Panchayats to discuss the same with the respective Presidents and other elected members of the Panchayat. In addition to these the concerned school in each of the Panchayat was also visited. On getting their consent the tentative programme was discussed, roles clarified, etc.



Orientation of coordinator and area coordinators



Discussion with school



Discussion with Panchayat



Briefing college students on survey

The survey was done to get an idea of the various types of waste and the approximate quantity that is generated in each of the Panchayats, and to find out the perception of the community towards 'waste'. The survey was done with a sample population of 300 house holds each in the Panchayats of Thamarasserry and Pudukudi and 135 in Kavalumpara. Please see Annexure I for the findings of the survey.

iii. Planning meeting with Stakeholders

This was the first formal interaction with all the stakeholders of the project. The meeting was attended by the elected representatives of the Panchayat, representatives of the traders, youth, Kudumbashree, school, etc. The meeting was inaugurated by the District Panchayat President (the highest elected authority for the entire district Local Self Government)



Arriving on a rainy day



Elected members look at the material provided



President Thamarasserry Panchayat raising a point



Screening of animation CD



Participants looking at polyloom products

At the planning meeting, in addition to the introduction of the implementing organizations, programme, expected outcomes, etc., the results of the survey was shared. There was also a resource person from the Clean Kerala Mission who shared about project of the Government of Kerala and encourage the Panchayats to submit proposals to the Government. This was followed by having group discussions broken Panchayat wise to discuss the implementation of the project in their respective areas. Please see Annexure II for report of planning meeting, and list of participants.



Working group discussions in progress



Elected representatives of the Panchayat sharing their Plan of Action



Planning meeting with school representatives and meetings with coordinators and area coordinators

iv. Introducing the programme at the Panchayats

After the planning meeting the respective area coordinators in consultation with the Panchayats formed advisory and implementing committees. The first step was to have meetings with the respective Areas Kudumbashree Coordinator. An orientation programme was held for them along with its members, and in some cases in the presence of the local elected representative.

The criteria used for the selection of the members were nomination by the concerned Panchayat president and the elected member of the ward. The role of the advisory committee was to evaluate the implementation of the project and provide timely advice. The implementing committee had responsibility to monitor the implementation of the programme and encourage the community to segregate the waste and make small vermi compost units in each of the house hold.

Please see Annexure III for the advisory and implementing committee members for each Panchayat.

This was followed by having neighbourhood meetings in one of the member's house. The host member ensured that their neighbours participated in the meeting. At this meeting which comprised of women, the objectives of the project was told. This was followed by the screening of the animation video, discussing the concept of waste and its management through the posters developed by Clean Kerala Mission, the Planet 3 poster, share the survey result, etc. The meeting ended by having a demonstration on vermi-composting. At the end of this, the earthworms were left behind with the house that hosted the meeting. Other interested people were asked to contact the respective area coordinator to get more worms.

The schools on their part did projects with the students that involved the participation of the parents. For example, the schools gave each student worms to carry back home to start vermi-compost in their homes, to collect the waste plastic bags in their homes and bring it to the school, street plays, etc.

Special training programmes on organic farming, legal issues, etc., were also held at the Panchayats. These were held in partnership with the respective Panchayat. For instance, the Pudupadi Panchayat, offered interested farmers subsidies if they took up organic farming.

The animation CD was screened at all Grama Sabhas (village meetings where the new plans of the Panchayats are announced to the people, once every quarter) and the pilot project introduced.



Screening of animation CD at one of the venues



Neighbourhood meetings



Discussion on waste



Age never an issue



Demonstration of vermi-composting



Proud owner of the earthworms

The Planet 3 poster in Malayalam was further adapted into a hoarding/billboard. The hoarding in addition to the picture also had text which roughly translated as

1. Take care of our environment in totality.
2. Act Now to make changes in our life-style and practises.
3. Think before you buy and also before you throw.

To manage waste practise reuse and recycle.
TO SUCCEED EACH OF US SHOULD DO OUR BIT.



The hoarding evolving from desktop print outs to large format prints



Hoardings placed at public spaces in the respective Panchayats



A hoarding developed by the Thamaraserry Panchayat announcing the ban in the use of thin plastic bags

The hoarding was printed on a large format (4 x 6 feet) on flex, which is a non tear and water proof material. As this was one of our first experiences of making a hoarding, it evolved gradually. CEE provided the flex prints of the hoarding and the Panchayat installed them at their own cost prominent places frequented by a lot of people. Some of the locations are: bus stop, main market road, out patient waiting area of the General Hospital, etc.

Please see Annexure IV for the schedule of neighbourhood meetings, held at each ward.

v. Monitoring and Review

Regular visits were made to each of the project sites to see how the project is progressing. Visits to some of the homes to see if the vermi-compost units were working or not was least expected by the families. They were impressed by the commitment of the project management team, and hence felt that they have to do better. This helped to motivate more people to take up the same. The visits proved to be helpful as it helped to further clarify and refine the project as it progressed. It also helped the Panchayats to see how a coordinated and planned effort can help in raising awareness levels of the community.

The project end meeting with all the stakeholders that was originally planned was not held. It was instead decided to have review meetings with each of the Panchayats to get their feedback and future plans, as this would enable a larger participation of community members. All the meetings were held at the respective Panchayat office, and was chaired by the respective Presidents.



Community members showing the vermicompost units they have started in their homes



Innovation' to collect the leachate



A street cleaned by the traders on their own

vi. Exposure Tour

Four representatives from each of the Panchayats along with the area coordinator and COD representatives were taken out on an exposure tour. The objective of the tour was to show them how solid waste is managed in another area. The places selected were Bangalore and Coorg. At Bangalore they saw a community managed initiative of solid waste management, while at Coorg they were taken to the Nemiraju Memorial Demonstration Unit, which has a polyloom that weaves waste plastic carry bags in to several interesting products, and a handmade paper unit.

This gave them an idea of some options through which they could try to manage waste in their areas on getting back, with adaptations if required.

Please see Annexure V for the list of participants from each of the Panchayats



Participants from the three Panchayats at Bangalore understanding the management of waste by a citizens group



At Coorg seeing the polyloom and hand made paper unit in action

vii. Reaching out to the rest of the Panchayat

One of the objectives of the project was to reach out to the rest of Panchayat through a project end event that would be open to the community. As the project progressed it was realized that by having a single event we would not be able to reach out to the entire Panchayat.

It was hence decided to have a mobile exhibition that would go to different parts of the Panchayat. At each of the venues the project and the importance of managing waste was discussed. In addition to posters on waste management, there were models relating to composting, vermi-composting, biogas, etc. Please see Annexure VI for the report on the mobile exhibition.



Glimpses from the mobile exhibition, that travelled to different parts of the Panchayat

Partner Agencies

The main partner in the implementation of this project has been Centre for Overall Development, Thamarasserry. In addition to this there has been a supportive partnership with the three Panchayats and the respective school in each of the areas.

CEE had the overall responsibility to manage and implement the project. CEE was involved in providing the orientation to the Planet 3 Package, facilitated the planning of the implementation, provided management and content inputs as and when required.

COD was responsible for the day to day coordination and execution of the programme at the field. The Panchayats provided support in terms of recognizing the importance of the issue, arranging meetings, deputing the elected representatives to be present at the neighbourhood meetings, ensuring the active participation of the Kudumbashree units, installing the hoardings, supporting training programmes as and when required, etc. The Panchayats now have a major role to play, as two of the three Panchayats have developed action plans for the management of solid waste in their areas.

Date	1 to 7	8 to 14	15 to 21	22 to 31
JUN			Conduct Random Survey on Domestic and Commercial	Complete Survey and start analysis of data
JULY	Data analysis completed	Multi stakeholder Planning Meet with representatives members from three Panchayats	Start Panchayat activities Set up advisory and implementing committees.	Initiate awareness activities, finalize the text for hoarding and Install Hoarding. Identify and establish partners for managing waste.
AUG	Visit to each of the sites, start panchayat level discussion and action plan implementation.	Initiate action projects, at individual and community levels		Monitoring and review. Training programmes on organic farming.
SEPT	Monitoring and review, discussion with individual Panchayats on	Monitoring and review, discussion with individual Panchayats on	Monitoring and review. Preparation for mobile exhibition	Mobile Exhibition visits different places in each of the Panchayats.
OCT				Submission of audited statement and final report

Project Management

The management of the project was effective. CEE has been able to effectively implement the PLANET 3 Package in the non-formal sector.

Conscious linkages to existing programmes of the Government were made from the beginning. Panchayats which are responsible for the management of solid waste in their respective areas were involved as partners from the very beginning.

The project was managed at the field level by partnering with a like minded agency, with clarity of roles. The day to day aspects of the implementation was done smoothly by the partner agency, and the overall management for the same was given by CEE from its offices at Bangalore and Ahmedabad. This worked out effectively, as we were able to reach the community on time with the necessary material and inputs whenever the need arose. As most of the activities were planned in advance in consultation and participation with all the stake holders there were no emergency situations to deal with.

Delivery Mechanism

The concepts appear to have reached the community, at least to the families to whom the package was directly communicated during the neighbourhood meetings. The method of involving neighbourhood groups has been helpful, as at each of these meetings in addition to the project management team there were a few local facilitators whom the community already had a rapport with. The presence of the elected representative of the Panchayat also helped in giving the programme more credibility and people accepted it keeping the long term gain they would get by following good practices of solid waste.

The package was delivered through the Area coordinator and the several Kudumbashree units in each of the wards. The Panchayats also took the responsibility of disseminating the concepts and screening of the animation video at their own programmes. The schools actively involved themselves in doing programmes in the school that had part of the tasks to be done at home.

Impact to the Learners

The concept of 'waste as a resource, if managed properly', seems to have reached the community. There are some visible changes in the practices—littering has stopped, segregation of waste at source has begun, recyclable material are being collected separately, vermi-compost units at household level has begun.

One of the Panchayats has initiated a survey on their own after our programme began to get more details on the type and quantity of solid waste that they generate. One of the three Panchayats has already been awarded a project by the Government under the Clean Kerala Mission to manage waste. The other two Panchayats are preparing a proposal for the same. Kavalumpara Panchayat has been selected by the Government of Kerala as a model Panchayat to implement solid waste management.

The Panchayats have acknowledged the benefits of IEC to implement a new programme. Though there were initial apprehensions on our objectives, they came around to be very supportive to our programme.

They realized that our efforts are complementary to their long term plans. Two of the three Panchayats have formulated plans to manage solid waste. They have banned the use of thin plastic bags. The traders in these areas have come forward and welcomed the programme. In two of the Panchayats the traders have borne the expense of keeping a separate place in their establishments for segregated waste.

On asking some of the members of the community who were present at the project end review meeting at each of the Panchayats, they mentioned that members from the areas that we are not working in are asking 'what wrong have we done for this programme not to be implemented in our area'. The Kudumbashree members have themselves volunteered to introduce the programme in other areas.

Quotes

Radha, Thamaraserry: "I am very happy with the vermi-composting idea, if it succeeds as good manure for my kitchen garden I shall invest money to build a concrete tank to have a large vermi-compost unit for my farm."

Thresiamma, Area Coordinator, Pudupadi: "The project has create a 'wave' in our area, people who had the habit of throwing all waste on to the road or to the neighbours land have now stopped doing it. We are now collecting plastic bags separately."

Yellamma, Kavilumpara: "We used to just throw all the waste earlier, now we have started to segregate and keep. We now have material that we can sell, and it then is no longer a waste."

Lessons Learnt and Future Work Plan

1. Linking the Planet 3 package to a main stream programme of the Government will help scale up the programme.
2. Need to work with a like minded partner, with clarity of roles and responsibilities from the very beginning. Continuous monitoring and review helps understand the ground realities and help
3. modify the plan to make the project implementation more effective.
4. An activity approach with all groups help in communicating the concepts more clearly. Doing the
5. survey on type of waste and quantity, and sharing the data with all the stake holders at the planning meeting was a turning point. This made the members to sit up and look at the issue as that needs serious attention to be provided. To understand the limitations of the Planet 3
6. Package in terms of resources and consciously bringing in partners from the government and nongovernment side.
7. The mobile exhibition helped to reach out to a larger section of the community. If only one community event was held the reach of the same would have been limited.
8. The adaptation of the poster as a hoarding placed in busy locations helped in the message reaching out to a larger number of people.
9. Complementary programmes like the organic training programme helped to reach a larger group and also gave a stamp of authority as it was done in association with the Panchayat.
10. The exposure tour gave the participants an idea of how others are managing the waste. One of the Panchayats have expressed an interest to set up a polyloom facility. Their concern though is their ability to market the produce.
11. It has not been possible to study the impact of the linkage between the formal and non-formal system. The schools did do their part to the best of their abilities, but with constraints of time and resources.

The project has been very challenging in terms of time and resources. It was the first time that our group has worked with the community directly. One of the key factors in the success of the project is the conscious decision of taking every one concerned together. All processes and plans were jointly developed, and there was transparency in all actions. This has ensured that the project has been successfully implemented to meet its objective of introducing the programme in the non-formal sector to create awareness on waste and its management.

Major wastes Generated at house hold level

Tamarassery Panchayat - Total House holds in the Panchayat- 11230

	Name of the Wastes	Sample Population	Total Wastes Generated in a day	Average wastes per house hold	Expected/Possible wastes to be generated in the Panchayat calculated by the sample population into total population of the panchayat
1	Agriculture wastes/Crop residues	300	815 kg	2.72	30545
2	Animal Excreta	300	207.56 kg	0.69	7749
3	Food Wastes	300	161.90 Kg	0.54	5952
4	Glass and polythene clothes	300	490 Nos	1.63	18305
5	Plastic	300	1003 Nos	3.34	37508
6	Rubber	300	419 Nos	1.40	15722
7	Paper	300	325 Nos	1.08	12128
8	Metal	300	37.63 Kg	0.13	1348
9	Battery	300	408 Nos	1.36	15272
10	Medicine	300	192 Nos	0.64	7187
11	Pesticide	300	20.74 Liter	0.07	786

Is there Wastes in your Surroundings?

Yes - 92 houses holds - 30.66%

No- 208 House holds - 69.34%

How you manage the wastes?

1. Collect in a common place - 36 house hold - 12%
2. Use as Animal feed - 108 households - 36%
3. Burning - 162 house holds -54%
4. Dumping in a pit - 37 house holds- 12.33%
5. Selling the wastes - 108 house holds- 36%
6. Throw away - 110 house holds - 36.67%

Are you satisfied with your present waste management system?

Yes - 106 houses holds - 35.33%

No- 194 house holds -64.67%

Kavilumpara Panchayat - Total House holds in the Panchayat - 4966

Sl No	Name of the Wastes	Sample Population	Total Wastes Generated in a day	Average wastes per house hold	Expected/Possible wastes to be generated in the Panchayat calculated by the sample population into total population of the panchayat
1	Agriculture wastes/Crop residues	135	294.5 Kg	2.18	10825
2	Animal Excreta	135	229.75 Kg	1.70	8442
3	Food Wastes	135	185.15 Kg	1.37	6803
4	Glass and polythene clothes	135	260 Nos	1.92	9534
5	Plastic	135	199 Nos	1.47	7300
6	Rubber	135	183 Nos	1.35	6704
7	Paper	135	235 Nos	1.74	8640
8	Metal	135	42 Kg	0.31	1539
9	Battery	135	95 Nos	0.70	3476
10	Medicine	135	158 Nos	1.17	5810
11	Pesticide	135	27.36 Litre	0.20	993

Is there Wastes in your Surroundings?

Yes - 95 houses holds - 70.37%

No- 40 House holds - 29.63%

How you manage the wastes?

1. Collect in a common place - 1 house hold - 0.74%
2. Use as Animal feed - 46 households - 34%
3. Burning - 95 house holds -70.37%
4. Dumping in a pit - 27 house holds- 20%
5. Selling the wastes - 37 house holds- 27.41%
6. Throw away - 40 house holds - 29.63%

Are you satisfied with your present waste management system?

Yes - 30 houses holds - 22.22%

No- 105 house holds -77.78%

Pudupadi Panchayat Total House holds in the Panchayats – 7763

Sl No	Name of the Wastes	Sample Population	Total Wastes Generated in a day	Average wastes per house hold	Expected/Possible wastes to be generated in the Panchayat calculated by the sample population into total population of the panchayat
1	Agriculture wastes/Crop residues	300	2105Kg	7	54341
2	Animal Excreta	300	250 Kg	0.83	6443
3	Food Wastes	300	118 Kg	0.39	3028
4	Glass and polythene cloths	300	411 Nos	1.37	10635
5	Plastic	300	1104 Nos	3.68	28568
6	Rubber	300	345Nos	1.15	8927
7	Paper	300	478 Nos	1.60	12420
8	Metal	300	23 Kg	0.08	621
9	Battery	300	479 Nos	1.60	12420
10	Medicine	300	185 Nos	0.62	4813
11	Pesticide	300	6.69 Litre	0.02	155

Is there Wastes in your Surroundings?

Yes - 10 houses holds - 3.33%

No- 290 House holds - 96.67%

How you manage the wastes?

1. Collect in a common place - 22 house hold - 7.33%
2. Use as Animal feed - 139 households - 46.33%
3. Burning - 215 house holds -71.67%
4. Dumping in a pit - 84 house holds- 28%
5. Selling the wastes - 135 house holds- 45%
6. Throw away - 74 house holds - 24.67%

Are you satisfied with your present waste management system?

Yes - 158 houses holds - 52.67%

No- 142 house holds -47.33%

Institutional/Business establishment Study Results
(Pudupadi and Thamarassery Panchayats Only)

Types and samples Investigated

Type	No of samples taken for Study	Major wastes generating by the unit	Approximate quantity of wastes per day	Remarks
Furniture	1	Timber and timber dust	20 Kg	
Barber shop	2	Hair, Paper, Blade and Plastics	1.5 kg	
Textile shops	2	Waste cloths, plastic covers, card boards	2 Kg	
Medical shops	1	Card board, Medicines, paper cover Medicine package materials	10 to 50 boxes	
Tailoring Shop	3	Cloths	10 Kg	
Foot ware	1	Paper and plastic cover	1.5 kg	
Vegetable shop	5	Vegetable residue, paper and plastics	65 Kg	
Stationery shop	2	Paper, Plastics and card boards	2 Kg	
Bakery and Cool bar	3	Food waste, plastic cover, oils, vegetable wastes	150 Kg	The banana waste is very huge in one bakery
Hotels	9	Food wastes, paper and plastics and waste water	100kgs 3000 liter	
Fish Stall	5	Fish wastes, plastic cover	50 Kg	
Chicken/meat stall	6	Chicken waste, meat waste, bone, plastic cover	150Kg	
Electrical shop	1	Plastic covers, boxes, paper	1kg	
Hospital and Clinic	3	Syringe, needles, cloths, plastic cover, medicinal wastes	The institutions can not quantify the wastes	

Present waste management systems adopted by the Institutions/business establishments

27.5% respondents manage the wastes by themselves.

22.5 % respondents depend on Panchayats for removing the wastes.

50% respondents depend on Panchayats and also their own waste management systems.

Present System adopted by the Institutions for waste management

- Used for agriculture as manure - e.g. timber wastes
- Used as feed for Pig and Cow
- Used as feed for biogas plants
- Burning
- Throw away to river/ river side
- Dumped in manual pits
- Hand over to other shops for packaging the gift articles - E.g. card board cover
- The oils are using for making local made soaps
- Both the Panchayats have a collection system of wastes. They collect the wastes from the shops directly.

The Perception of respondents towards wastes

32.5% respondents are not satisfied with the present waste management system

5% respondents are in a neutral stand - i.e. partially satisfied

62.5% respondents have no problem with the wastes

General

- 80% of shops/institutions in Thamarassery Panchayats hand over the wastes to Panchayat collection system - 4 acre land, 8 sweepers and one tractor
- Thamarassery Panchayats reserved Rs.3 lakhs from the plan fund for waste management for the year 2006-07
- Even though in Pudupadi Panchayats, the same system is exists but no body respond positively to this collection system.- contract to others for collecting the wastes, 2 contingency sweeper and one daily wage sweeper. Plan fund for waste management is Rs.3.5 lakhs for the current year
- Kavilumpara Panchayat had a land of 2 acres. 2 permanent and 1 daily wage sweepers are in the panchayat. One tractor is also in the panchayat.

Planet 3 Expansion in Kerala

Notes on the One Day Planning Meeting for Community Led Waste Management

Held at the COD Training Centre, Pudupady, Kozhikode District, Kerala, on 12 July 2006

Background

Centre for Environment Education (CEE) in partnership with Asia Pacific Cultural Centre for UNESCO (ACCU) had developed the adapted and translated version of the Planet 3 Package into Malayalam. CEE was then involved in the utilization and dissemination of the material in Malayalam at Kochi and Thamarassery. The material was disseminated at Thamarassery in partnership with COD.

CEE and ACCU now intends to expand the scope of utilization and dissemination by also working with the non-formal section of the society (cross section of the community) in Kerala on a pilot basis to create awareness about the problems of solid waste management, and on how it can be managed.

The expansion is being carried out in three Panchayats of Kozhikode District—Thamarassery, Pudupadi and Kivilumpara. The pilot project will be implemented in 3 wards in each of the Panchayats.

The Schedule

One day Planning Meeting for Community led Waste Management
On 12.07.06 at COD Institutions, Pudupaddy

Sl no	Time	Session	Facilitator
1	9.30 to 10.30	Registration	COD
2	10.30 to 11.30	Welcome and Inauguration	Mr. K.P Kunhumammad, President Zilla Panchayath, Fr. Joseph Mathew, Director COD
3	11.30 to 11.40	Tea Break	
4	11.40 to 12.00	About COD, CEE and ACCU	COD, CEE
5	12.00 to 12.40	About the project	Mr. Sunil Jacob
6	12.40 to 1.15	Introduction to Waste and its Management	Dr. Reena, Service Provider Clean Kerala Mission
7	1.15 to 1.35	Presentation of Survey findings	Ms. Jessy , Coordinator , COD
8	1.35 to 2.30	Lunch break	
9	2.30 to 2.45	Energizer	Ms. Nandini , and Mr. Sunil
10	2.45 to 2.50	Formation of working groups and guidelines for developing plan of action	Mr. Sunil
11	2.50. to 4.00	Working group discussion	
12	4.00 to 4.15	Presentation and Discussions	
13	4.15 to 4.30	Finalization of plan of action and closing of meeting	Fr. Joseph Mathew
14	4.30 to 4.35	Tea	
15	4.35 to 4.45	Planning meeting with school team	COD, CEE

The Planning Meeting

This was the first of the formal interaction had with the stake holders from all the Panchayats. The participants at this meeting (See Annexure I for schedule of the programme) represented the Presidents/Vice-Presidents of the Panchayats, the respective ward member of the Panchayat, representatives of Kudumbashree/Self Help Group, Traders Association, Youth Member, Nodal School/College, etc. The three Panchayats working on the pilot project is Thamaraserry, Pudupadi and Kivilumpara.

The meeting was inaugurated by the President of the Zilla Panchayat (District Panchayat), Kozhikode District, Mr. K. P. Kunhumammed. He stressed that along with the Government, the civil society also has an important role to play for betterment of the society. He said that solid waste is a problem in the entire district, and even far flung and remote locations are not spared from this. He mentioned that for success there needs to be awareness among all sessions of the society. In Kerala the Panchayats are finding it difficult to tackle the problem of solid waste, availability of land for developing dumping sites/land fills are very difficult.

To manage this problem he said that one needs to look at a decentralized approach involving the entire community, and that there is need for public-private partnership models to be developed, etc. He stressed that each of the Panchayats should work on this pilot project sincerely so that we can have successful models that other Panchayats can take up.

This was followed by an introduction to the partner organizations—CEE, ACCU and COD, the Planet 3 Package and the pilot project that needs to be implemented. This helped in providing clarity on the project and the roles different partners play.

The rest of the morning session was spent in the screening of animation video, Minas Village Says Yes to Waste Management, a session by Dr. Reena, a service provider of the Clean Kerala Mission (CKM), which is the nodal agency of the Government of Kerala to facilitate the implementation of Solid Waste Management by the local self governments) who spoke on the activities of CKM and how they would be able to provide financial support to Panchayats if they submit well thought out proposals on how they could manage waste.

The last session prior to lunch was the sharing of the results from a rapid survey on solid waste conducted at each of the three wards in the three Panchayats. (See Annexure II for survey findings)

After lunch all participants were introduced to why segregation of waste is important through an activity. The participants were then broken into three working groups based on the Panchayat they represent.

At the working group the participants discussed on the following issues

1. How the programme would be introduced in each of the wards
2. What are the awareness and action programmes that they plan—strategy and time frame.
3. Content for the poster that would be placed as a hoarding, and to select the locations for installing them.
4. What kind of partnerships do they feel are required if the waste management programme has to be successful, e.g., recycling agents
5. Can this project period be used as a preparatory phase to develop a proposal by the Panchayats to be submitted to CKM for expanding the Solid Waste Management programme in the entire Panchayat.

The participants then came back to present their discussions to the plenary. The broad outcomes of the discussions are:

Thamarassery

- The Panchayat will make a presentation on the importance and need for waste management at the general body meeting of Vyapari Vyavasai Ekopana Samithi (Traders Association).
- The panchayat will conduct awareness programmes at Grama Sabhas (Village Meetings) and Kudumbasree units (Self Help Groups).
- Brochures on waste management will be developed and distributed among all households.
- Panchayat will distribute two types of waste bins to all the shops in cooperation with NGOs and like minded institutions, and instruct the traders to segregate of the wastes and deposit them in separate bins.
- Waste bins will put at strategic/major places within the Panchayat.
- The Panchayat developed a message for the hoarding i.e., "LIVE AND LET OTHERS TO LIVE"

Kavilumpara

- Conduct an awareness programme on 24 and 25 July 2006 for the leaders of SHGs, youth representatives.
- Ward meetings for the representatives of SHGs, Traders, Youths, and Political Parties will be conducted
- A survey will be conducted by the Panchayat to get an idea about the generation of wastes.
- The Panchayat will develop a plan and provide facilities for segregating the waste.
- Family concentrated awareness programmes will be conducted for developing compost—organic composting and vermi composting.
- The collection of segregated wastes and recycling of organic wastes will be entrusted to the Kudumbasree units.
- Tie up with plastic recycling units and motivate the community for the construction of a plastic cemetery.
- The hoarding message is 'FOR A HEALTHY SOCIETY KEEP YOUR SURROUNDINGS CLEAN'.

Pudupadi

- The Panchayat will form Ward wise Committees in all the wards.
- Awareness programme will be organized for Kudumbasree units, trade unions, NGOs, Schools and Grama Sabhas.
- Develop and distribute educational material like brochures, posters, video clips, etc.
- Develop a permanent solid waste management system for the Panchayat. E.g., appoint personnel, improve the infrastructure—transportation facilities, promote bio gas plants and compost pits in individual houses.
- The Panchayat will make arrangements for segregating the wastes and establish separate bins to collect the segregated waste in Kudumbasree units.
- Trainings will be conducted for Kudumbasree units and make arrangements for recycling the solid waste.
- Tie up with other agencies for recycling the wastes.
- Based on the types of trading units, Panchayat will give different waste bins and also assure the timely removal of the wastes.
- Legal Policies will be formulated for ensuring waste management systems in hospitals and clinics.
- The hoardings will be erected at strategic locations—Engapuzha, Kannappankundu and Kaithapoi west.
- The hoarding message is ' ELIMINATE THE WASTE'

The Participants

The planning meeting was attended by 41 participants, of whom the number of participants from the Panchayats were 25, the remaining were from COD. For list of participants see Annexure III.

Small Group Meetings

After the close of the meeting a small group meeting was held with the representatives of the schools to discuss what are the types of activities that they could do to complement the community programme. As time was limited it was not possible to develop a plan of action. The schools were impressed upon the need to do activities that have a community component. Some activity ideas were suggested—waste trail, survey of waste at home, school, market, etc., field visit to a recycling unit/dumping site, motivate their family members/neighbours, establish a demonstration unit for composting, survey on packaging at home, school, etc., collect and bring recyclable material to school, trace the raw materials used in the different wastes, awareness programmes for the community, etc.

This was followed by a meeting with the Area Coordinators (AC) and the COD team to review the outcomes of the day and also to plan for the remaining part of the project period. It was decided that each of the ACs would visit their respective Panchayats while the meeting is still fresh in their minds and try to get the project started. The ACs are to also get the matter that needs to come on the hoarding to be finalized. As the output for this from the working group discussions was more on captions, it was felt that it would be good to retain one of the captions and along with it develop our own text and get the same approved from each of the Panchayats. It was agreed upon that COD would discuss the implementation with their other colleagues too during their meeting of Regional Coordinators.

Project Time Frame

The time frame for the various activities decided are given below.

Dates	1 to 7	8 to 14	15 to 21	22 to 31
June			Conduct Survey	Conduct Survey and do analysis of data
July	Data analysis	Planning Meet with community members from three Panchayats	Start Panchayat activities Set up advisory and implementing committees date decided yesterday was 20 July 2006 for the above activities	Initiate awareness activities Finalize the text for hoarding and Install Hoarding. Identify and establish partners for managing waste.
August	Visit to each of the sites 1 to 3 August visit to each area	Initiate action projects, at individual and community levels		Visit to each of the sites 22 to 25
September	End of Aug to 4,5,6 Onam holidays			Organize community event suggested dates is 25, 26, 27 Project end activity Suggested date 29

List of Participants

Kavilumpara Panchayat

Sl. No.	Name and address	Designation
1.	A. R. Vijayan Kavilumpara	Chairman Welfare Committee, Kavilumpara Panchayat
2.	Asokan K. Kavilumpara	Secretary Vyapari Vyavasaya Group (Traders Association)
3.	Chandri Kizhakkai Kavilumpara	Member, Kavilumpara Panchayat
4.	Gracy Sebastian Kavilumpara	Kavilumpara G V S member
5.	Jolly George Kavilumpara	Member Kavilumpara Panchayat, Ward 7
6.	N. P. Chandran Kavilumpara	Youth Representative
7.	P Prabhakaran Konduthode, Kavilumpara	Vice President, Kavilumpara Panchayat
8.	P. N. Sukumaran Kavilumpara	President, Traders Association
9.	Remeshan Kavilumpara	Member Kavilumpara Panchayat
10.	Scaria V D P. T. Chacko Memorial High School Konduthode, Kavilumpara	H S A Drawing Teacher
11.	Sr Johnsy P. T. Chacko Memorial High School Konduthode, Kavilumpara	H S A, Eco club Teacher-in-charge

Pudupadi Panchayat

1.	Geetha K. M. Pudupadi	CDS Vice Chairperson
2.	Girish John Pudupadi	President, Pudupadi Panchayat
3.	Mini Jose Melvettem (H) Pudupadi P O	Member, Ward 18 Pudupadi gram Panchayat
4.	Rosamma Joseph Pudupadi	Pudupadi Panchayat member
5.	Salim Qazi (Youth representative) Pudupadi	Secretary Deepthi Club
6.	V S Surendran Mylellampara, Pudupadi	President, Kannappankundu Vyapari Vyavasai Ekopana Samithi (Traders Association)
7.	Sr. Sherly Sebastian St. Joseph's UPS Mylellampara, Pudupadi	Eco club Teacher in charge

Thamarassery Panchayat

1.	Joseph Mathew Advocate	Public Library Thamarassery
2.	M. P. Joseph Thamarassery	V. V. E. S. Thamarassery
3.	Sakeena Basheer Thamarassery	C D S Chairperson
4.	Shilaja P B Thamarassery	Thamarassery G V S President
5.	Suma Rajesh Thamarassery	President Thamarassery Panchayat
6.	T K Thankappan Deepa Vihar Thamarassery	Member Thamarassery Panchayat

Total Panchayat Participants 25

Participants from COD

1.	Thresiamma Mathew Marudomkara P.O. Kavilumpara	Area Coordinator Kavilumpara
2.	Somini Joseph Puthiyamattathil Kakkad (P O) Engapuzha	Area Coordinator Thamarassery
3.	Thressiamma Thomas Venkittackal Kakkade P O Pudupadi	Area Coordinator Pudupadi
4.	Benny Augustine Thamarassery	Project Officer
5.	Bincy P. V.	
6.	Fr. Jills John	Programme Director
7.	Fr. Joseph Mathew	Director
8.	Jaimon J. M.	Coordinator
9.	Jessy John	Coordinator
10.	Jose K. V.	COD
11.	K. C. Joy Pudupadi	Regional Coordinator
12.	Mini R Kavilumpara	Regional Coordinator
13.	Minimol C.	Coordinator

Others

1.	Dr. Reena (Resource Person)	Service Provider Clean Kerala Mission
2.	Morris Mathew	MSW Student Lissah College, Pudupadi
3.	Vimal Antony	MSW Student Lissah College, Pudupadi

Total Participants 41

Implementing and Advisory Committee Members Ward wise

Thamarassery, Implementing Committee Members

Sl No	Ward	Nemes of Members	Designation
1	4	Ms Sulaikha khader	Kudumbasree Member
		Ms.Mini Bhaskaran	Kudumbasree Member
		Ms.Shantha babu	Kudumbasree Member
		Ms.Fousia	Kudumbasree Member
		Ms.Lalitha	Kudumbasree Member
		Ms. Somini Joseph	COD Thamarassery
2	5	Ms. Vasanthakumari	Kudumbasree Member
		Ms. Nirmala	Kudumbasree Member
		Ms. Mini Thambi	Kudumbasree Member
		Ms.Radha sadanandan	Kudumbasree Member
		Ms. Somini Joseph	COD Thamarassery
3	13	Geetha P	SHG Member
		Shylaja A.D	Kudumbasree Member
		Ayisha C.P	Kudumbasree Member
		Bindhu C.K	Kudumbasree Member
		Somini Joseph,	COD Thamarassery

Advisory Committee Members

Sl No	Name	Designation
1	Ms. Suma Rajesh	President Grama Panchayath
2	Mr. ummar	Vice President , Grama Panchayath
3	Mr. Varior	Senior Citizen
4	Mr.Ramesh	Political Party Leader
5	Ms. Jessy John	COD Thamarassery

Puthupadi, Implementing Committee Members

Sl.No	Ward	Name of the member	Designation
1	1	Ms.Rosamma ,	Ward Member
		Ms.Beena Roy	SHG Member
		Ms.Annakutty	SHG Member
		Ms.Daisy Joy	SHG Member
		Ms.Radha Devadas	Kudumbasree Member
		Ms.Vasantha Ramesh	Kudumbasree Member
		Ms Beena	Kudumbasree Member
		Ms.Thresiamma Thomas,	COD Thamarassery
2	18	Ms. Mini Jose	Member, Panchayath
		Mr. Johny V.V	SHG Member
		Ms. Smitha Anish	Kudumbasree Member
		Ms.Bindhu Swami	Kudumbasree Member
		Ms. Sally Thambi	Kudumbasree Member
		Mr. Abdulla	SHG Member
		Mr. Aliyar	SHG Member
		Ms. Geetha K. G	Kudumbasree Member
		Ms. Thresiamma Thomas	COD Thamarassery
3	9	Ms. Shaniba	Kudumbasree Member
		Ms.Sarasu Ratnakaran	Kudumbasree Member
		Ms. Sindhu	Kudumbasree Member
		Ms.Geetha	Kudumbasree Member
		Ms. Thrsiamma Thomas	COD Thamarassery

Advisory Committee Members

Sl No	Name	Designation
1	Mr. Girish John	President, Grama Panchayath
2	Mr.Paulose	Vice President Grama Panchayath
3	Ms. Kuttியമ്മ Mani	Welfare Standing Committee Member
4	Mr. J. Joseph	Senior Citizen
5	Sr. Shjerly	St. Joseph U.P. S. Mailellampara
5	Ms. Thresiamma Thomas	COD Thamarassery

Kavilumpara, Implementing Committee Members

SI No	Ward	Name of the Member	Designation
1	8	Mr.Vasu,	Member, Panchayat)
		Ms.Shyni	Kudumbasree Member
		Ms.Satheesh	Kudumbasree Member
		Mr.M.K. Babu	Kudumbasree Member
		Mr..K.Kannan	Kudumbasree Member
		Ms.Ailly,	COD Thamarassery
2	9	Mr.Rameshan,)	Member, Panchayath
		Ms.Sulaja	Kudumbasree Member
		Ms.Gracy	Kudumbasree Member
		Mr.V.V Nanu	Kudumbasree Member
		Mr.Ratheesh,	Youth Representative
		Ms.T.C Radha	Kudumbasree Member
		Ms.Ailly,	COD Thamarassery
3	15	Ms ChandriValakayam	Member , Panchayath
		Mr.Chandran	SHG Member
		Ms.Bindhu	Kudumbasree Member
		.Ms.Sasi Devi	Kudumbasree Member
		Ms.O.K Krishnan	Kudumbasree Member
		Ms.V.K Surendran	KudumbasreeMember
		Ms.Prabhakaran	KudumbasreeMember
		Mr.Mohanan O.K	SHG,Member
		Mr.Shaji	SHG,Member
		Mr.Kanaran	SHG,Member
		Ms.Ailly	COD Thamarassery

Advisory Committee members

SI No	Name	Designation
1	Ms.Cicily	President,grama panchayath
2	Mr. P. Prabhakaran	Vice President, Grama Panchayath
3	Mr. Babu	President, Traders Association
4	Sr. Johnsy	PTC Memorial H.S Kunduthode
5	Ms. Ally Balachandran	COD Thamarassery

Schedule of neighbourhood meetings ward wise.

Thamarassery

Ward	Date	Venue	No of participants	Time
4	29.07.06	Chungam ,Near Maruti Service Centre	41	12.00 noon
	29.07.06	Chungam,Palorakunnummal	25	3.00 P.M
	30.07.06	Chungam, Kallerakkapoil	70	1.30 P.M
	30.07.06	Chungam,Kayyelikunnummal	20	3.00 P.M
	06.08.06	Moonnamthode	28	2.00 P.M
5	06.08.06	Muttukadavu	38	4.00 P.M
	08.08.06	Opp. Service Station, Chungam	43	2.00 PM
	08.08.06	Near Chavara Nursery	43	4.00 PM
	12.08.06	Ambalakunnu	25	2.00 PM
	12.08.06	Vezhupur	18	4.00 PM
13	19.08.06	Vezhupur colony	35	10.00 AM
	04.08.06	Thamarassery	37	3.00. P.M
	09.08.06	Chalumbad	34	3.00 P.M
	13.08.06	Thamarassery	32	3.00 P.M

Pudupadi

Ward	Date	Venue	No. of Participants	Time
1	15.08.06	Mylellampara	26	9 A.M
	16.08.06	3 Cent Colony	58	6.00 P.M
	17.08.06	Ottakkara	45	2.30 P.M
	21.08.06	Manalvayal	35	3.00 P.M
9	28.07.06	Puduppadi Panchayath Grama Sabha.	127	11.A.M
	09.08.06	Puzhamkunnu	52	2.30 P.M
	10.08.06	Tharassil	35	2.30 P.M
	12.08.06	Kalladikunnu	26	2.30 P.M
	13.08.06	Achi	41	3.00.P.M
	22.08.06	Puzhamkunnu	47	4.00 P.M
18	27.07.06	Puduppadi Panchayath, Grama Sabha.	103	2.30 P.M
	03.08.06	Kakkavayal Ambalamukku	43	2.30 P.M
	13.08.06	4 Cent Colony	41	4 P.M
	15.08.06	Vanikara	37	12 noon
	18.08.06	Near MGM H.S	20	3.P.M
	22.08.06	Engapuzha	20	5.00.P.M
	31.08.06	Puduppadi	71	11 A.M

Kavilumpara

Ward	Date	Venue	No. of Participants	Time
8	10.08.06	Elakandi, Kunduthode	66	2.00 P.M
	14.08.06	Kunduthode, Near Elakandi Temple	30	3.00.P.M
9	08.08.06	Thottakkadu Liabrary	50	3.00 P.M
	10.08.06	Puthukkadu Anganvadi	43	3.00.P.M
	12.08.06	Kunduthode Health Centre	45	3.00. P.M
15	11.08.06	Panchayath hall Kavilumpara	61	11 A.M
	12.08.06	Valakayam	33	2.00 P.M
	13.08.06	Chethamkolly	39	2.00 P.M
	14.08.06	Kavilumpara Panchayath Office	42	2.00 P.M

List of participants for the exposure tour to Bangalore and Coorg

Thamarassery Panchayath

Sl. No.	Name of the participant	Male	Female
1	Mr. Sachidanandan (Ward member)	1	
2	Ms. Geetha (Committee member)		1
3	Ms. Thankamani (Committee member)		1
4	Ms. Mini (Committee member)		1
	Total	1	3

Puduppady Panchayath

Sl. No.	Name of the participant	Male	Female
1	Mr. Girish John (President)	1	
2	Mr. Johny (Committee member)	1	
3	Ms. Rosamma (Ward member)		1
4	Ms. Shaniba (Committee member)		1
	Total	2	2

Kavilumpara Panchayath

Sl. No.	Name of the participant	Male	Female
1	Ms. Cicily (President)		1
2	Mr. P. Prabhakaran (Vice president)	1	
3	Mr. Rameshan (Ward member)	1	
4	Ms. Chandri (Ward member)		1
5.	Mr. Preman (Ward member)	1	
	Total	3	2

COD Representatives

Sl. No.	Name of the participant	Male	Female
1	Fr. Jills John (Programme Director)	1	
2	Ms. Jessy John, Coordinator		1
3	Ms. Thressiamma Thomas, Area Coordinator Pudupadi		1
4	Ms. Somini Joseph, Area Coordinator Thamaraserry		1
5.	Ms. Alli Balachandran, Area Coordinator Kavilumpara		1
	Total	1	4

Report of the Mobile Exhibition on Waste and its Management at Thamarassery, Kavilumpara and Pudupadi Panchayats

22 – 27 September 2006

Introduction

The mobile exhibition was conducted over a period of six days covering three Panchayats of Kozhikode district in Kerala. While the project targeted only one ward per Panchayat, to reach out to a larger group, it was decided that the exhibition would cover more wards per Panchayat.

Two days were allotted to cover each Panchayat. The exhibition traveled across several wards in each Panchayat, stopping at pre-determined locations to enable people to have a closer look at the displayed items. These locations were either schools or public places like market area, church, bus stand etc. While traveling from one location to the other, Danish from COD was continuously announcing information about what the mobile exhibition was about and where it would stop next. This report mentions the activities day-wise.

Day 1

22 September 2006

Thamarassery Panchayat

The mobile exhibition started with an inaugural event at Parappanpoil. Mr. Ummer, the Vice President of the Thamarassery Panchayat inaugurated the programme. Fr. Jills, Programme Director, COD, presided over the function. Ms. Maimoona Hassan, Ward Member and Mr Ramankutty, Ward Member, spoke on the occasion. Jessy from COD introduced the programme.

From Parappanpoil the exhibition moved to Kathirotte. The next location was Andona, where the participants were very few because it is a muslim- dominated area. As the month of Ramazan is going on, most people were in the mosque when the exhibition reached there. From there, the exhibition travelled to Kudukkilummaram. Here the public very enthusiastically enquired about the programme. The next stop was at Alphonsa English medium school. The teachers and students here were very interested and they sought help from COD for conducting a similar exhibition in their school some other time. The exhibition then moved to Karadi where the people raised many questions and sought clarifications about waste management practices. At Chungam, the next location, Jessy explained the exhibits to all present. At Ambayathode, Ms. Somini spoke about the exhibition and its contents to the people. The day's last programme was at Thamarassery bus station. A lot of people gathered here as Jessy explained the exhibits to all. After that the video programme "Mina's Village Says Yes to Waste Management" was screened. The first day's programme ended with a vote of thanks by Jessy.

Day 2

23 September 2006

Thamarassery Panchayat

The second day's programme started at Government Upper Primary School, Thamarassery. Here about 400 students participated in the exhibition. They seemed very interested in knowing about the various exhibits. After that, the exhibition moved to Moonnamthode. From there, it traveled to

Government High School, Thamarassery. About 1200 students participated in the exhibition here. The response was also very positive. The next location was Korangad. Ms Somini explained the exhibits to all present. Then the exhibition moved to Puthanthari, from where it travelled to Pookode, Thekkumthottom, Avelam, Thachampoil, Vadikkal, and Thettamburam. All these were public places like commercial areas and busy junctions, where the general public viewed and appreciated the exhibition. The closing function was at Earpona. Ward member Mr. Ramankutty addressed the public. Jessy explained the exhibits and proposed the vote of thanks.

Day 3

24 September 2006

Kavilumpara Panchayat

The mobile exhibition started from the St. Joseph's Church at 9:00 am. Jessy from COD spoke about waste management and explained the displayed items and processes to the audience. The plastic monster created by the arts teacher of P T Chacko Memorial School was also displayed at this location. This created a sudden interest among children. The next location was Kunduthode town, which is a market place. The exhibition attracted the attention of everyone present there immediately. Thressiamma from COD explained the contents of the exhibiton to the audience. Jessy introduced the project to the audience, particularly the work that has been done in the Kavilumpara Panchayat. Ward member Mr. Ramesh addressed the gathering. Thressiamma from COD also spoke on the occasion. Jessy then explained the contents of the exhibition to the audience. the next stop for the exhibition was at Chathankkottunada. Being a cross road & a bus stop, a good crowd assembled there. Jessy introduced the project and explained the contents of the exhibition. Danish from COD explained the process of biogas generation to the audience (one of the display items was a model of a biogas plant). the next stop was at Poodampara. Here, immediate interest was not generated, as people seemed a little skeptical. But they came forward slowly. Once they had a closer look at the exhibition, they found it so interesting that two farmers decided to buy earthworms for vermi composting from COD on the spot. This generated even more interest so that soon another group gathered to whom Jessy explained the exhibits again. The Van finally moved to Poothanpara uptown. From here, the next stop was at Thottilpalam, where the Panchayat President for Kavilumpara, Ms. Cicily joined the exhibition group. From there, the exhibition moved to the petrol pump nearby. President addressed the gathering in both of these locations. The exhibition then moved to Panchayath Muchu in Kavilumpara. Here also the crowd was interested. Several auto drivers slowed down to waited to look at the exhibition. The next stop was near the Kavilumpara Gram Panchayat Office. Here the vehicle carrying the exhibition was parked very close to the hoarding on waste management put up as part of the project. The last stop was near the Kerala State Road Transport Corporation bus depot. Thresiamma from COD explained the exhibition.

Day 4

25 September 2006

Kavilumpara Panchayat

The day was set apart for taking the mobile exhibition to several schools across the Kavilumpara Panchayat. The first school where the exhibition went to was the Government UP School, Kavilumpara. The programme was conducted in two sessions here. The first session was for Lower Primary school children (up to Class 3). The second session was for Upper Primary school children (from classes 5, 6 and 7). In all, about 200 children saw the mobile exhibition. The sessions were interactive, with the children enthusiastically answering questions as well as asking some.

The exhibition then moved to AJJM High School. Here, the programme was conducted in three sessions – one for students of Class 8, the second for those of Classes 5, 6, and 7, and the third for students of Classes 9 and 10. In all, about 1200 children participated in the exhibition. From here, the exhibition moved to Podampara LP School. Here, about 50 children from Classes 1, 2 and 3 participated in the exhibition. The next stop for the exhibition was Government UPS, Kunduthode. Here, about 200 children from Classes 1 to 6 participated in two sessions.

The exhibition in Kavilumpara Panchayath concluded at the P T Chacko Memorial School. While the participants were all from the school, the event was organized at the St. Thomas Church next to the school building. Since this was the last stop for the exhibition at Kavilumpara Panchayat, a closing ceremony was organized here. The programme started with Jessy introducing the project to the children gathered in the ground. The priest of the St. Thomas church addressed the gathering. The head master of the school also spoke on the occasion. This was followed by a song on waste, the hazards it causes and its management, by the children of the school. The children of the green club in the school (called the 'Haritha Nature Club') staged a mock funeral for plastic. Sister Johnsy of the school then proposed the vote of thanks on behalf of the school. Jessy then explained to the children the items and processes displayed in the mobile exhibition.

Day 5

26 September 2006

Pudupadi Panchayat

The first event in the Pudupadi Panchayat was at MGM High School at 10:00 am. Since this was the beginning of the exhibition at Pudupadi Panchayat, before the exhibition was opened to the public, an inaugural function was organized. The invitees were

Fr. Phillip Ramban, Parents Teachers Association (PTA) President

Fr. Jills, Programme Director, COD

Mr. Gue Verghese Panicker, Head Master

Mr. Girish John, Pudupadi Panchayat President

Mr. Paulose, Vice President, Pudupadi Panchayat

Ms. Mini Jose, Ward Member, Pudupadi Panchayat

Ms. Rosili, Deputy Head Mistress

The vote of thanks was proposed by Ms. Sheela, a teacher in the school. A magic show was also organized by the Panchayat. This show was organized in all the locations that the exhibition stopped at during the two days. In all, about 1000 children and 20 teachers attended the function and participated in the mobile exhibition later. Jessy explained the contents of the exhibition to the children. Seeing the response of the children, the head master requested the COD staff manning the exhibition to take it to the nearby Lower Primary School also. There, about 250 children participated in the exhibition.

The exhibition then moved to Perumballi – a market place – where the general public had a look at it. From there, the exhibition moved to Kottarakoth, another busy junction. Here too, the exhibition generated a lot of interest. The next stop for the exhibition was Malapuram, from where it moved to Kakkavayal. The last stop for the day was at Engapuzha town bus stand. Here, after the magic show, a street play was staged by the children of St. Joseph's School, Mylellampara. The street play effectively conveyed the message of the hazards mismanaging wastes. Following this, Jessy explained the exhibits to all present.

Day 6

27 September 2006

Pudupadi Panchayat

The first location where the mobile exhibition visited was St. Joseph's School, Mylellampara. The students of this school had staged the street play in Enghapuzha town the previous day. So the event on 27 September 2006 also started with the street play. This was followed by the magic show organized by the Pudupadi Panchayat. As requested by the headmaster, Nandini Ram from CEE spoke to the children about what they can do as children to manage waste. The students then gathered around the mobile exhibition while Thresiamma from COD explained the contents of the exhibition to them. The students were then asked to queue up and pass by the exhibition in a queue, so that every single student would get the opportunity to see the exhibition from near.

The exhibition then moved to Kannappan Kunde, a commercial area. The third stop for the vehicle was at Valliyad, also a commercial place. In both of these places, the public was very interested in having a look at the exhibition. But in Valliyad, by the time the exhibition reached there, it was afternoon and so, there were not many people there. From there, the exhibition moved to Government High School, Pudupadi. Here, about 1000 children saw the exhibition. The next stop was at Lissah college where about 100 students from psychology and Masters in Social Work disciplines saw the exhibition. The next stop was at Kaithapoyil town, after which the exhibition moved to Kaithapoyil West. With this the 2-day exhibition came to a close.

Feedback:

The exhibition generated a lot of interest everywhere it traveled. While some people voiced their opinion aloud, some were more comfortable putting it down in writing. The feedback received was positive as well as negative in some cases as mentioned below:

- On the first day, in Thamarassery, the CD was screened. But subsequently it was not possible because the majority of the population is Muslims and this is their matter of fasting. They break the fast after sunset so nobody is interested in staying back for the film screening.
- One teacher wanted to know if COD can provide training to the people in making items out of waste plastic bags that were exhibited in the mobile exhibition. He was informed that COD intends to conduct a training programme in this regard very soon.
- Several people mentioned that the exhibition is good. It provided them with awareness about waste and its management.
- A banana vendor near one location of the mobile exhibition wanted to know what they could do if the Panchayat refused to clear the garbage from the streets. Who should they approach in that case? Jessy from COD told him that the Panchayat will now ensure that the streets are clean because it has declared the Panchayat a garbage-free Panchayat.
- Another visitor to the exhibition at Valliyad felt that the exhibition would have evoked better response if it had been conducted in the evening instead of the afternoon. The time the exhibition went there, most people had gone home for lunch and siesta.
- Some felt that the exhibition created awareness about how well we can reuse things that are generally considered waste.
- People expressed happiness about such an exhibition taking place in such a remote rural area. They expressed hope that more such programmes will be organized in future.
- The audience felt the way the exhibition was presented was good and effective.
- Some felt that through this exhibition, they got to know the hazards of disposing plastics improperly.

- Some wished that the vehicle in which the exhibition was carried had been larger.
- The exhibition was considered very beneficial to the public.
- One person agreed that using clay pots (as exhibited) would create a healthier generation.
- Some expressed pleasure over the fact that the exhibition gave them awareness about Vermi composting and biogas generation.
- Some people also felt that it is important to create awareness among the Panchayat members first and then to the other citizens.
- Some complimented the organizers for having organized such an effective exhibition.
- Some wished that vermi composting and biogas generation processes would be demonstrated in public places.
- Some felt that training in recycling waste and making new products out of it should be imparted to the public.
- Some felt that the exhibition was presented in such an easy-to-understand way that even the children could understand and get inspired.
- One person also commented that though the exhibition created awareness about reducing the use of plastics, the hoarding that was put up in the vehicle was made of flex. To this, they were told that the purpose of the exhibition was not to ban plastics completely, but to think of ways by which one can reduce their usage.
- Some agreed that they were not aware of the several facts about waste management but they got to know about it through the exhibition.
- Some said that now they know that waste is actually a value-added material.
- Some said that only creating awareness is not enough. They also expect positive action from the local bodies.
- Some felt that such exhibitions should reach out to more people.
- Also, when such an event is planned, the public should be given prior notice about the time and date of such events.
- Some commented that the programme is well planned.

Programme schedule for the mobile exhibition Thamarassery Grama Panchayath

22/09/06

Parappanpoil	-	11.00 a.m
Kathirode	-	12.00 noon
Andona	-	1.00 p.m
Kudikkillumaram	-	2.30 p.m
Alphonsa School, Koarangade	-	2.50 p.m
Karadi	-	3.25 p.m
Chungam	-	4.10 p.m
Thamarassery	-	5.30 p.m

23/09/06

GUPS Thamarassery	-	10.30 a.m
Moonnamthode	-	11.00 am
Korangade	-	11.50 a.m

Puthanthari	-	1.00 p.m
Pukode	-	2.30 p.m
Thekkumthottam	-	3.00 p.m
Aavelam	-	4.00 pm
Thachampoil	-	5.00 p.m
Vadikkal	-	5.45 p.m
Thettampuram	-	6.45 p.m
Erppona	-	7.30 p.m

24-09-06

Kavilumpara Grama Panchayath

Kunduthode Church	-	8.45 a.m
Kunduthode Town	-	9.30 a.m
Chattankottunada town	-	11.00 am
Poothampara	-	12.00 am
Petrol pambu	-	2.30 p.m
Pnachaythu mukku	-	3.30 p.m
Thottilpalam	-	4.30 p.m
Thotttilpalam	-	5.30 p.m

25-09-06

Kavilumpara School	-	10.00 a.m
Poothampara School	-	11.00 am
Chathankottunada School	-	12.00 noon
Kunduthode U.P School	-	2.00 p.m
Kunduthode High School	-	3.00 p.m

26/09/06

Pudupadi Grama Panchayath

MGM H.S Engappuzha	-	10.30 a.m
Kottarakoth	-	11.00 am
Perumbilly	-	12.00 noon
Malapuram	-	2.00 p.m
Kakkavayal	-	3.45 p.m
Engapuzha	-	5.00 p.m

27/09/06

St. Joseph's U.P School Mylellampara	-	10.00 a.m
Kannappankundu	-	11.00 a.m
Valliyade	-	12.00 noon
Adivaram	-	1.00 p.m
GHS Pudupady	-	1.45 p.m
Lissha College Kaithapoil	-	3.00 p.m
Kaithapoil	-	3.30 p.m
West Kaithappoil	-	4.00 p.m



CEE

Centre for Environment Education



Centre for Environment Education, Southern Regional Cell, 143, Kamala Mansion, Infantry Road, Bangalore 560 001, INDIA
Ph: +91-80-22869094/9907, Fax +91-80-22868209 www.ceeindia.org, www.kidsrgreen.org