



REPORT ON THE INTRODUCTORY INTEGRATED SOLID WASTE MANAGEMENT TRAINING FOR COASTAL COMMUNITIES OF BUALA, ISABEL PROVINCE

27th-28th October 2014



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1.0. Introduction

This is a joint report of the Buala Integrated Solid Waste Management Workshop Program and Waste Characterization Survey conducted between the following dates from 27th to 28th October 2014 and 28th October to 4th November 2014. A two days' workshop to increase the knowledge of the participants on how to manage solid waste management more efficiently and effectively and the tools in achieving this. A total of 35 participants attended the training with approximately 30% women participants.

The training was facilitated by 3 resource persons from the Environment and Conservation Division under the Ministry of Environment, Climate change, Disaster Management and Meteorology under the guidance of the project management team. The training includes slide presentations and practical demonstrations of how to make composting and how to conduct a waste characterisation survey. Information and awareness materials including posters and booklets were distributed to participants as well. On day one the training was officially opened by the Vicar General of the Church of Melanesia. The training program was officially opened by remarks from the representatives of Isabel province and Project Management Representative.

A practical composting and waste characterization exercise was also demonstrated to the workshop participants purposely to increase their knowledge and understanding on the importance of source reduction at source and the need to segregate wastes as part of the incentives to manage wastes properly at home, church, office or community.

After the presentations on day one and two of the program, the participants were divided into groups given opportunity to discuss issues of solid waste management in their communities. The groups were also asked to discuss the possible solutions to the address the waste management issues within their community.

1.1. Background

The waste generated from various human activities is being dumped to the sea in staggering pace and increasing volume. The volume has been so high that it has strained the natural recycling mechanism of the sea and has affected its water quality and the life forms dependent on it. The organic waste is increasing the nutrient load and high biological oxygen demand is reducing the amount of oxygen available to living organisms and even suffocating them. The non-biodegradable waste stays in the sea for years trapping and killing marine animals. The soft plastic materials can be ingested as food by these animals resulting to death. Declining marine resources has threatened food insecurity to the communities.

While waste has affected the world's oceans as it is dispersed widely by tides and currents, the impact is more pronounced in lagoons which are not only close to the source of waste but have also constraints in diluting and dispersing the waste. The natural

enclosure of small islands and reef complexes largely limits water circulation within the lagoon as well as the flushing of pollutants into the open sea. With the continuous dumping of waste from land, the result is the fast concentration of pollutants that will undermine the biological productivity of the lagoon. Being a main source of food and livelihood of the communities around it, its degradation is bound to downgrade their well-being as well.

This is the case of the Maringe coastal lagoon in Buala, the capital town of Isabel Province. Buala is about 45 minute's flight from the national capital of Honiara. It is also accessible by an overnight boat trip. Its coordinates are 8'08°S and 159'35°E. The lagoon with 15 kilometers coastline hosts three marine protected areas (MPA) – Tasia, Sulei and half of Fera Island. The Nature Conservancy (TNC) established these MPA using TA funds. The capacity of the local government limits the effectiveness of its management of solid waste. A large portion of the waste ends up in the sea either directly dumped or carried by run-off and the five streams draining into the lagoon.

To upgrade the condition of the lagoon, shield the MPA from pollution, protect the health of the people dependent on the coastal resources, a solid waste management program is needed. The Maringe Lagoon Management Committee and Mothers Union proposed to establish an ISWM program for Technical support during the mission to Isabel on 23-26 October 2013. Under the National Solid Waste Management Strategy 2009-2014 some of the key priority areas includes which this training program is promoting includes waste characterization (how to conduct a waste audit), waste minimization (how to conduct a simple compost), promote awareness, communication and education on proper waste management, encourages private –public partnership and builds human capacity of local government and community.

1.2. Purpose of Training and Workshop

The training has the following specific objectives:

- (i) clarify the nature, scope and components of ISWM program;
- (ii) understand the issues, processes and tools of ISWM program;
- (iii) learn the good practices on ISWM;
- (iv) clarify the role and responsibility of each sector and agency in implementing ISWM program; and
- (v) identify immediate steps to take to start an ISWM program.

The purpose of this waste audit is to:

- (vi) collect data on the existing waste generation

- (vii) Provide technical support to the Provincial Government to develop a waste collection and disposal system that is effective, efficient and self-reliant

1.3. Proposed Activities

The activities conducted includes:

- 2 Days Workshop
 - Waste Audit demonstration
 - Composting demonstration
 - Presentations on Integrated Solid Waste Management
- Waste Audit (8 days activity)
- Brief Survey of the current Dumpsite and proposed location for a new Dumpsite

1.4. Expected Output

The expected outputs of the proposed Noro-Munda Solid Waste Management Survey are as follows:

- i. A report of the SWM survey is produced after the activity
- ii. Site Investigation for a proper waste disposal site is conducted for Noro – Munda

The expected outputs of the proposed training are as follows: (i) training materials composed of one hand-out and six power point presentations; (ii) 35 participants trained with at least 30% women; (iii) training report describing the training process, number of participants by gender, issues raised and action plan to move forward the ISWM program of Buala.

2.0. Workshop Details

2.1. Time and Date of Workshop

Date: 27-28th October, 2014

Time: 9.30am-12noon

Venue: Diocese Conference room

2.2. Date of Waste Audit

Date: 28th October – 4th November 2014

Time: 7.00am-12.00pm

Duration: 8 days (1st day discard)

Venue: Jejevo, Buala Station and Buala Village

2.3. List of Participants and Resource Persons

Refer to Annex 2 for the list of participants to the two days' workshop, list of resource persons and team involved in Waste Survey.

2.4. Program Schedule of Activities

Table 1: Schedule of Workshop and Waste Characterization Survey

Date/ Time Frame	Activity Detail
Sunday 26 th October 2014	Travel to Buala from Honiara
Monday 27 th October 2014	First day of Workshop Distribution of Plastic bags to commercial areas and residential houses Composting demonstration
Tuesday 28 th October 2014	Second day of workshop Collection of plastic bags from commercial areas and residential houses Demonstration of waste characterization
Wednesday 29 th October 2014	Waste Audit
Thursday 30 th October 2014	Waste Audit
Friday 31 st October 2014	Waste Audit
Saturday 1 st November 2014	Waste Audit
Sunday 2 nd November 2014	Waste Audit
Monday 3 rd November 2014	Waste Audit
Tuesday 4 th November 2014	Waste Audit
Wednesday 5 th November 2014	Return to Honiara

Table 2: Program of Workshop

Time	Activities	Person-in-Charge
Day 1		
8:30-9:00	Registration	NPMU
9:00-9:30	Opening Activities	
	Prayer	Community Leader
	Messages	MECDM and Provincial Government Representative
	Introduction of Participants	All
9:30-10:00	Training Objectives and Program	PMU
10:00-10:15	Tea and Coffee Break (Group Photo)	All
10:15-11:15	Presentation 1: ISWM Concept and Tools	PMU
11:15-12:15	Presentation 3: Functional Elements and Components of ISWM	All
12:15-12:30	Question & Answer	All
12:30-1:30	Lunch	All
1:30-2:45	Presentation 2: Case studies in ISWM	PMU
2:45-3:15	Presentation 4: Key steps in implementing ISWM program	PMU
3:15-3:30	Question & Answer	All
3:30-3:45	Tea or Coffee Break	All
3:45-4:30	Lecture 6 and Demonstration: Composting as ISWM Tool	MECDM

3.0. Methodology

The training was facilitated by 3 resource persons from the Environment and Conservation Division under the Ministry of Environment, Climate change, Disaster Management and Meteorology under the guidance of the project management team. The training includes Powerpoint presentations and practical demonstrations of how to make composting and how to conduct a waste characterisation survey. Information and awareness materials including posters, brochures and booklets were distributed to participants as well to identified key organizations within locations in Buala. On day one of the training it was officially opened by the Vicar General of the Church of Melanesia.

The training program was officially opened by remarks from the representatives of Isabel

Time	Activities	Person-in-Charge
Day 2		
9:00-9:15	Opening Prayer	NPMU
9:15-10:15	Activity : -Facilitated Discussion: State, Impacts and Issues in Solid Waste Management in Buala -Planning to Start ISWM program and Defining Responsibilities	All
10:15-10:30	Presentation of Output	All
10:30-10:45	Tea or Coffee Break	
10:45-11:00	Lecture 5 : Characterizing the Nature of Solid Waste in the Community (Materials: Garbage, weighing scale, gloves)	PMU
11:00-12:00	Q & A	All
12:00-1:30	Lunch	All
1:30 -2:30	Practical Activity: Waste Characterization	All
2:30-3:00	Closing Messages	MECDM and Provincial Government Representative
3:00-3:30	Tea or Coffee	
3:30-4:00	Wrap Up	

province and Project Management Representative.

After the presentations on day one and two of the program, the participants were divided into groups given opportunity to discuss issues of solid waste management in their communities. The groups were also asked to discuss the possible solutions to the address the waste management issues within their community.

4.0. Discussion

4.1. Presentation and Demonstration (Questions and Answers)

- Officers from the Ministry of Environment Climate Change Disaster Management & Meteorology gave presentations on the introduction to basic concepts of Integrated Solid Waste Management and other topics.
- A question was raised on whether the Solomon Islands Government have any plans to prioritized recycling activities. It was responded that there are no plans in place by the National Government on prioritizing recycling.

- A remark was made on tins, cans that are throw near food gardens can turn the food garden taste from sour to sweet. Another commented by acknowledging the presentation which highlights the negative impacts of burning plastics. He stated that this is a practice common in Buala. It was also highlighted that there are other ways of managing plastic bags where women turn plastic bags into useful resources or handicrafts. It was also raised that ice-block plastics are usually collected and used to burn to start a fire in Buala.
- A question was raised on what is the aim and objectives of the team after the workshop program. It was responded that this workshop is only for two days however, the team will conduct a waste audit for the next few days after the workshop to collect data on what type of wastes is produced in Buala and waste composition. Based on these data collected, then possible measures can be identified on how best to address these wastes which is the next step after the workshop.
- A participant commented that at the national level, waste issues is a problem everywhere and what ways Government would come in to address such issues in the grass root level. It was responded that what is going to be discussed in this workshop is about livelihood of people and the benefits out of this program will be for the community.
- It was clarified to participants that the Ministry of Environment does not have any seconded staff based in all the provinces like some other ministries. It was also discussed that when such trainings as this workshop is conducted at the provincial level, it is the participants who should take on board the responsibility to teach others the knowledge and skills acquired from such workshops or trainings. The Government can go through the Provincial level to create linkages and the Province to develop linkages to the community level to plan activities. This is a reason why the involvement of stakeholders is important in terms of waste management and if all stakeholders worked together, something can be achieved.
- Another participant shared some thoughts stating that to address waste issues, attitude of people need to be changed as well. This concept of waste management should also be carried out to the schools to change the attitude of the younger generation with respect to their behavior towards waste management so that as they grow up they are brought up with the idea of proper waste management. Use of pamphlets/brochures with information should be provided to schools. It was responded that to change the attitude of people need to target schools. In the case of Japan for instance, it has taken a long period of time to finally change the attitude of people and make the waste management system work. The Ministry with stakeholders recently introduced the program in piloted schools in Honiara and in Gizo known as the Eco-School Program which can also be implemented in Buala.

- A participant commented that school teachers should be included in the future workshop.
- It was commented that livelihood is important in for people in Buala. The participant further commented that there is a fibre –glass making company at Buala Station that emits a bad odor during operations. It was responded that the Environment Act addresses Pollution control and Development control. As such, since there are no officers stationed at the Provincial level, the Ministry are not aware of such issues unless they are reported to the office. The officers from the Ministry can only consider people’s concerns when they have a change to visit the provinces for tours. The company will be visited by officers to follow-up if they have followed correct procedures or have permit for its operation.
- A participant commented on whether there are any other activities after the workshop. It was stated that if there is no other follow-up activities conducted after the workshop then the vital information would not be utilized. It was responded that the purpose of this workshop is to train participants to be trainers. Thus the team have passed on information to participant who should then teach others on these skills and knowledge on waste management to other communities. The ministry can provide technical support if requested by communities.
- One of the participant raised a point on polluter-pays principle so that those causing the pollution to meet the cost of awareness programs. It was responded that this is a good idea, however, it will require a law on polluter pay responsibility. The Ministry is trying to work towards this concept but it takes time. At the moment what the team is emphasizing on is the daily waste generation that needs to be reduced. With awareness it does not require any costly budget, it could be made at churches for instance during or after service which is also part of the Christian principle as stewardship of the earth. The schools is a good place to start to change the attitude of next generation towards waste management.
- Another thought was shared by one of the participants that in all of Isabel Province have one day of the week in the village to be observed as Government Day. During this week, people in the community come together to clean up the village surroundings. In the case of Buala, there was no such event in the town area. It was responded that such information is vital for the group discussions where such initiative or ownership of any activities has to come from the community.
- A participant commented that due to the term “integrated” most participants thought that the program would be challenging. She stated but if use the term “family solid waste management “it would be better since this issue needs to be address at the first place at home.
- A question was raised on whether there is any evaluation document prepared for participants to evaluate the workshop. It was responded that the document will be provided at the end of the workshop on the next day and all the issues raised will

also be discussed in the group discussions which will be compiled together to draw out the way forward after the workshop.

- A participant commented that this workshop is the reason why all the stakeholders are here today to discuss the issues and change can only take place if all work as a team.
- After the second presentation a question was raised on the accessibility in towns to proper disposal sites compared to village where people dispose waste for instance battery in the sea which is toxic. It was advised by officers from the Ministry that certain recycling exporter companies purchase old car batteries.
- A comment was made by Project officer relating to batteries used in flash-lights. He informed all that a study was conducted in Vanuatu which indicates that the batteries kill the corals within the healthy reefs which is a habitat for fish. He added the presentations earlier indicates that with increasing population and economic development so is waste generations which clearly links people with wastes.
- A question was raised on what is the best method of disposing waste. It was responded that disposing waste in the sea is not advisable but disposing waste on land is preferred.
- Officers from the Ministry also advised that in comparison to land and sea, it is better to dispose waste on land. Resource owners are request to assist by allowing Local or National Government to set up site for proper landfill. Participants were informed that an issue regarding wastes is land issues but it is something that requires planning and consultation.
- It was highlighted that people should not have any issues with where to dispose wastes. The participant highlighted that with regards to the information on brochure provided a waste pit can be easily built in the community or house. An officer from the ministry added that the main concept is the 3Rs concept of reduce, reuse and recycle as a means for waste minimization.
- Another commented that during the Dengue Fever outbreak in Buala, the community was divided into 8 zones where people went out to clean up around the area. He further stated that in a Kaivagha community they establish a system with a notice stating that everybody to pick up 5 pieces of rubbish per day and put into the waste storage bin at the community. It was responded that this comes back to community initiatives.
- A community representative remarked that in the village there are Chief and health workers dealing with community affairs that there is a Government Day (Friday) to do clean ups but it all comes back to people's attitude and willingness. The awareness is vital for communities. It was also stated that it all comes back to attitude of people and how family raise their children at home. It is added that wastes is related to health and if the surrounding is not kept clean then it can cause

diseases or sickness. Thus, in order to improve the human health need to improve waste management.

- Participants were informed that there was a pilot program implemented at School known as Clean School Program and a community program which aims to transfer information from children to parents and parents to children.
- A question was raised on what is the difference between compost soil and natural soil. It was responded that with a compost soil it will have a similar earthy color but will be richer in nutrients compared to natural soil.
- A question was also raised on whether all the kitchen wastes can be used for compost. It was responded with reference to a compost poster what can be added to a compost and what cannot be added to a compost.
- Another question was raised on how to know when the compost is ready or not. It was responded that when the compost is ready, it can be known when it has a dark color, has an earthy smell and should be ready depending on the size of compost between 1-2 months. It also depends on how the compost is maintained. A participant shared her experience of a similar compost demonstration held in Buala recently which was known as kitchen compost. She explained that the materials used was timber and covered with banana leaves. The green waste was used at the bottom of compost, followed by soil and chicken manure and then covered with soil again. Bamboo was put around the compost and advised to plant legumes such as beans near the compost. She further stated that the type of compost will be ready after 6 months.
- Another question was asked if the 3Rs concept can be applied to the compost. It was responded that when kitchen waste is used for compost, in a way it is reducing waste generated at source, when it is applied for compost it is form of reusing kitchen wastes and when the compost is utilized to grow plants or vegetables it is a way of recycling as it goes through a cycle.
- Another question was raised on whether fish body parts can be used for compost. It was then responded that fish body parts cannot be used for compost due to the odor it will create and attract flies and dogs to spoil the compost.
- Another shared some information regarding the compost stating if the compost is checked and if the temperature is hot then it is not ready to be used but if the temperature is cold then it is ready for use.
- Another questioned if cooked rice could be used to add to the compost. It was responded that if the rice is dry then it can be added to compost but if it is wet then it is not appropriate to be added to the compost.
- It was advised that reviving the Buala Beautification Committee would be practical rather than establishing another committee. It was also added that the BBC should work closely with women in households with some initiatives to motivate the households to maintain a clean surrounding in the community.

- During the second day of the training program, a group discussion was facilitated by the project management team to get opinions and views of the training participants of the major waste management issues and solutions to address these issues. Find below some of the group discussions from the five groups which are as follows in chronological order of group numbers.

4.2. Group Discussions

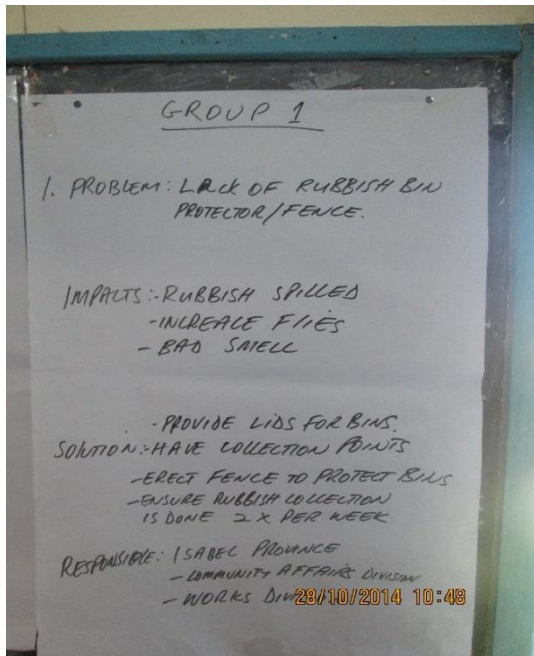


Figure 1. Group 1 a

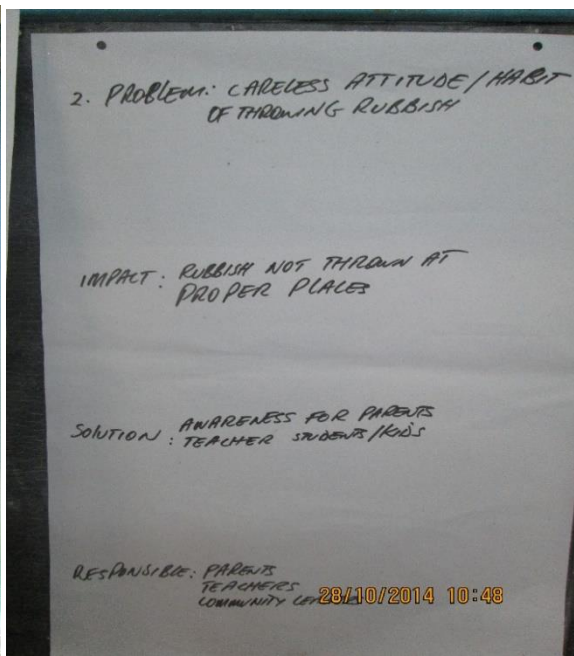


Figure 2. Group 1 b

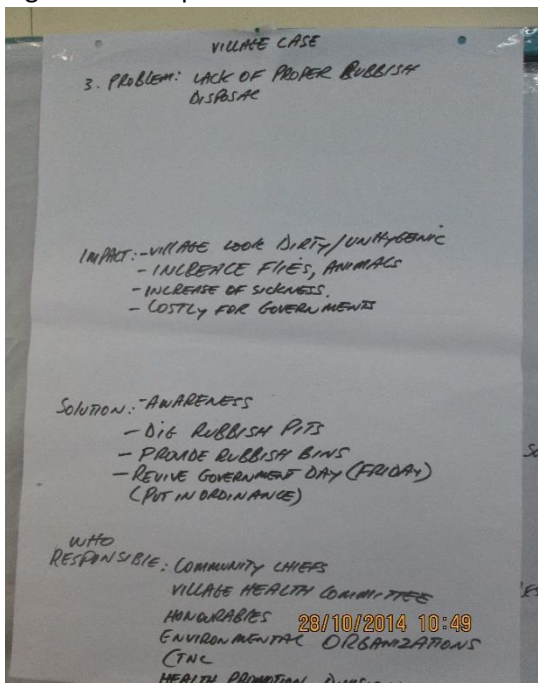


Figure 3. Group 1 c

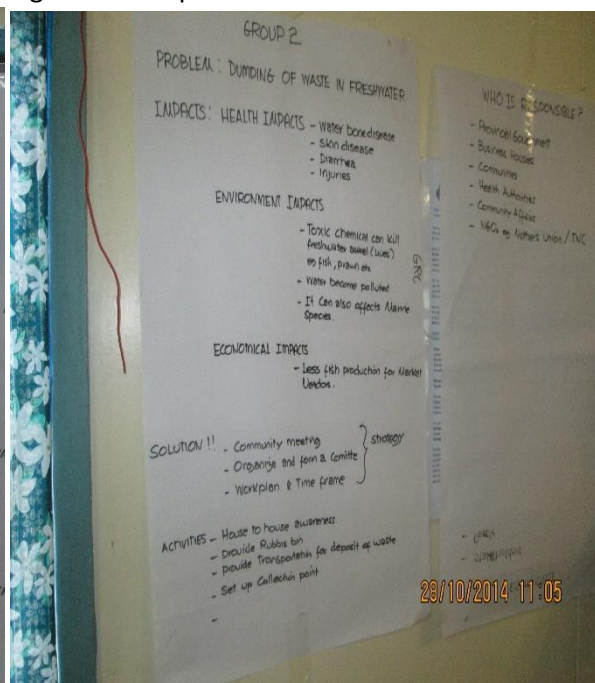


Figure 4. Group 2

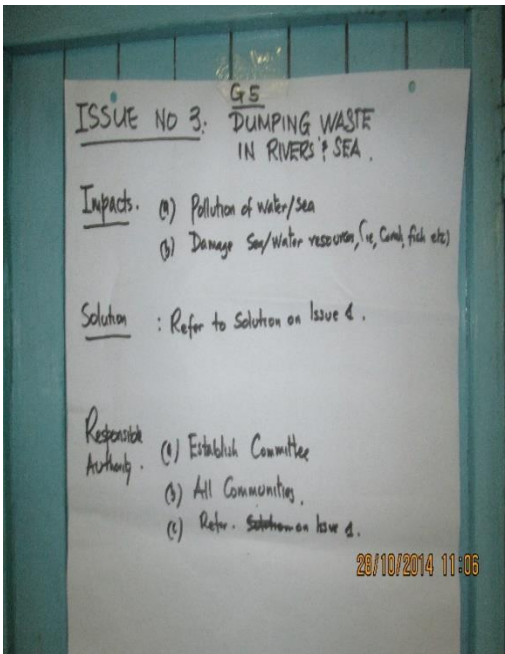


Figure 5. Group 5 a

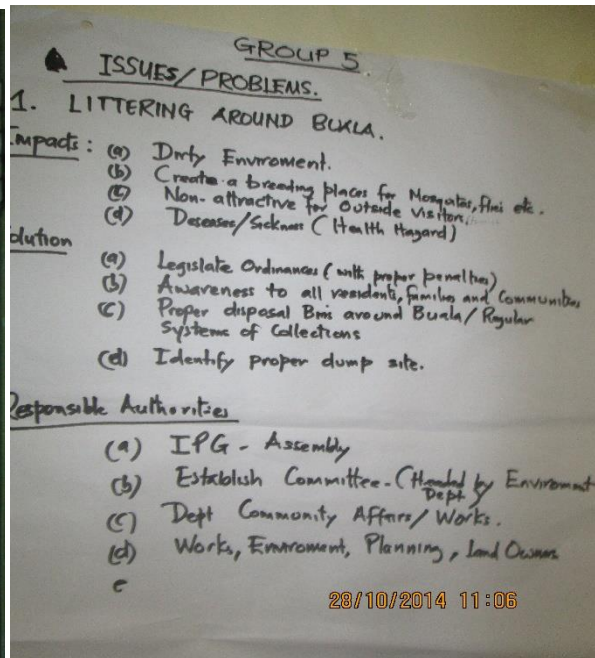


Figure 6. Group 5 b

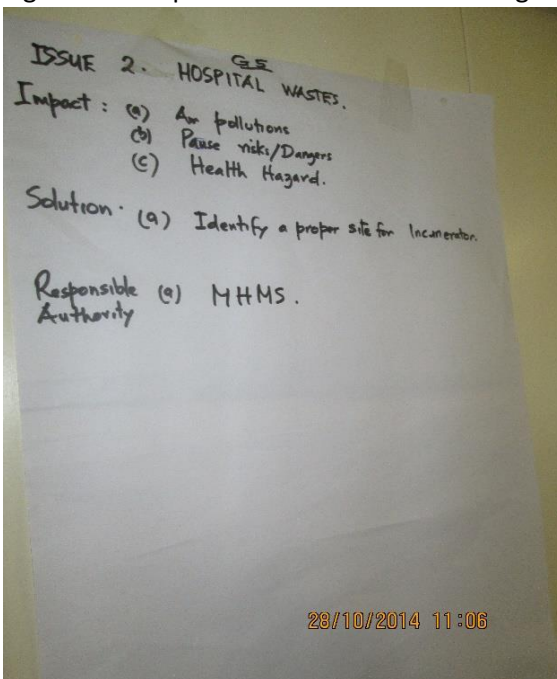


Figure 7. Group 5 c

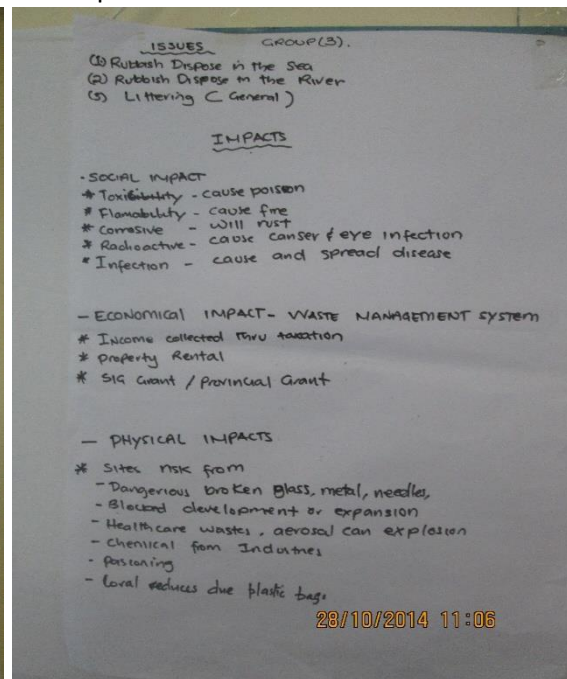


Figure 8. Group 3 a

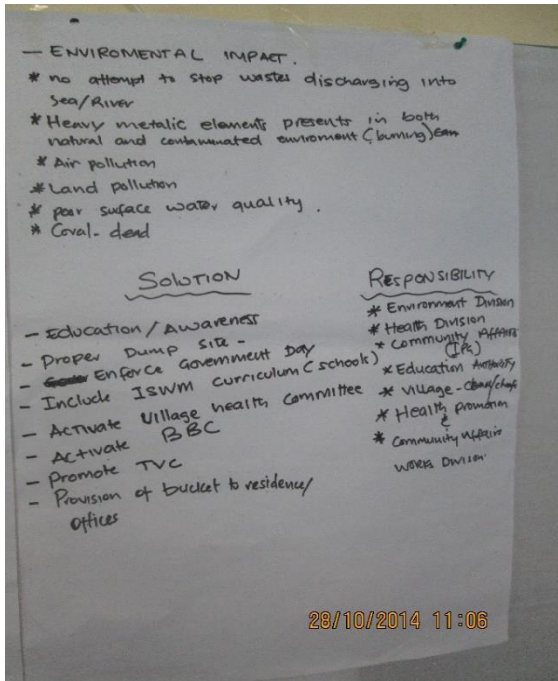


Figure 9. Group 3 b

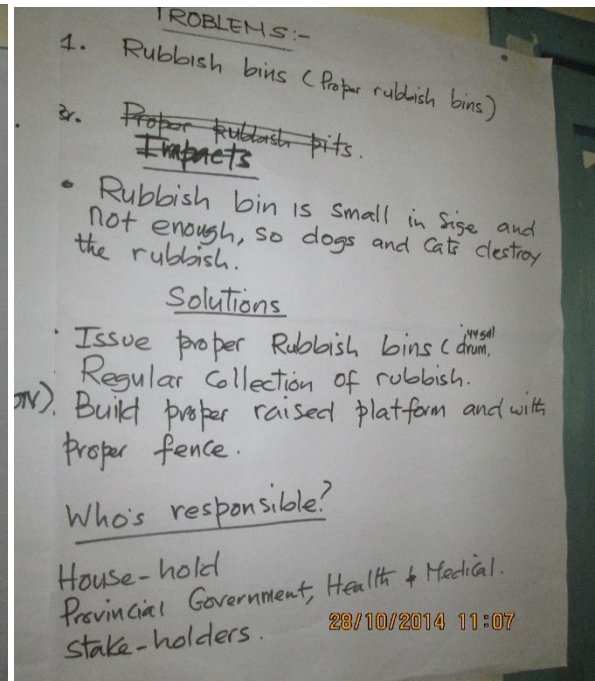


Figure 10. Group 4 a

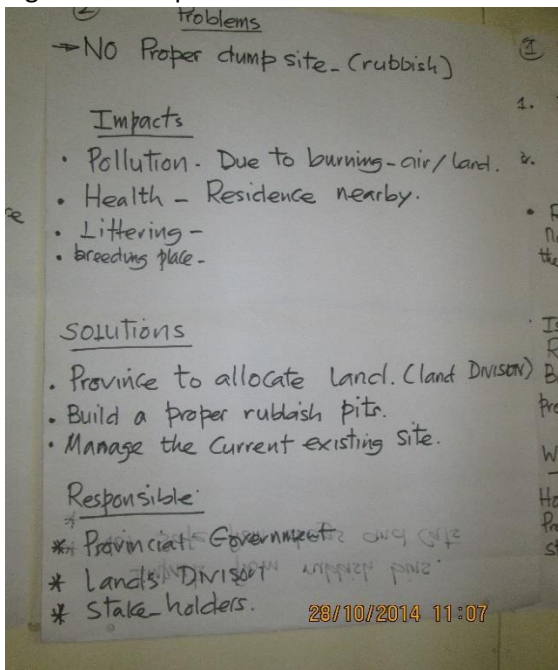


Figure 11. Group 4 b

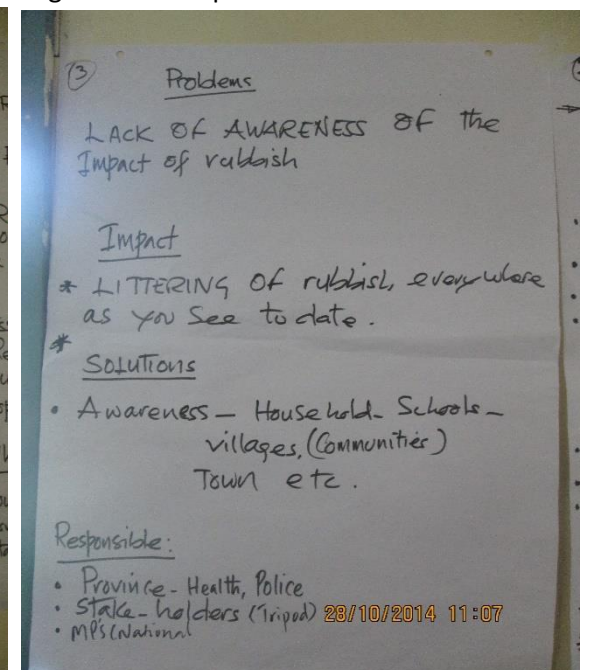


Figure 12. Group 4 c

The common issues discussed by the participants includes littering of wastes; improper waste disposal on land, sea and river; lack of proper waste storage bins; attitude problem of people towards waste; lack of proper waste disposal site and hospital wastes. This are common waste challenges found everywhere in the country which requires a lot of education and awareness raising and collaboration between different stakeholders in community, provincial and national level.

5.0.Way Forward

- i. Revitalizing the Buala Beautification Committee (BBC) with the development of a Waste Management Terms of Reference to be included as part of the activities under this committee to address waste management issues. To establish a solid waste management program in Buala and lessons learnt or experiences will then be rolled out to nearby communities. Identify the members of the Buala Beautification Committee and roles each members play in the committee.
- ii. To develop an Integrated Solid Waste Management Program in Buala and in future incorporate with the TVC concept to be rolled out to the communities. Buala ISWM Plan to be submitted to Ministry of Environment for possible technical support and assistance.
- iii. Technical Support to assist in conducting awareness programs in communities to be requested from identified external source or organization.
- iv. Revive Government Day Clean up in Buala and surrounding communities with more stringent enforcement.
- v. Follow-up workshop to plan the implementation of the Buala ISWM Program.

Buala Integrated Solid Waste Management Workshop
27th October- 5th November, 2014 –Buala, Isabel Province

List of Annex

Annex 1: List of Resource Persons and Participants

Annex 1.1. List of Resource Persons

Ref	Names	Position	Organization	Telephone/Mobile	Email
1	Rosemary Apa	Chief Environment Officer	Environment & Conservation Division, MECDM	26036/7473213	rosemaryapa@gmail.com
2	Debra Potakana	Senior Environment Officer	Environment & Conservation Division	26036/ 7497455	debra.kereseka@gmail.com
3	John Pita	Manager	TNC, Buala		
4	Ethel Francis	Coordinator	CTI	23031	
5	Peter Ramohia		CTI	23031	
6	Wendy Beti	Environment Officer	Environment & conservation Division, MECDM	26036/7552607	wendiipolobeti@gmail.com

Buala Integrated Solid Waste Management Workshop
27th October- 5th November, 2014 –Buala, Isabel Province

Annex 1.2. List of Day 1 Workshop Participants (Monday 27th October 2014)

Ref	Names	Position	Organization	Telephone/Mobile	Email
1	Dorothy Bana	Literature	Mothers Union	7739468	
2	Jeffery Collin Tada	Awareness Coordinator	TNC (MU)	7734536	jeffcotada@gmail.com
3	Mark Toni	CAO(Admin)	IPG	7734129	
4	Loreta Soaki	WDO	Women's Division, IPG	7602027	Lo.kelimana@gmail.com
5	Alex Nindi	Leader	Buala	7551975	
6	Ephraim S	HKK Tausese	Haevo	7773255	ephysean@gmail.com
7	Steve Mauni	PFO	Ministry of Fisheries	7813040	
8	Clifton Basil	CIO	(Ministry of Commerce) Isabel Provincial Govt	7454999	Cliff_baz@yahoo.com.au
9	Jacob A	PFO	Ministry of Forestry	7861038	
10	Charles Barodi	Market Master	Isabel Provincial Government	7861002	
11	Gilbert Ragumana	Shop Keeper		7457078	
12	Everlyn Pihavaka	Women's Center	Buala (IPCW)	765258	evapihavaka@gmail.com
13	Mary Waletasu	AFO	Agriculture	7455114	
14	Jasper Kapili	Chief	Korege Village	7464543	
15	Ethel Bogese	Register Nurse Aid	Buala Hospital	7710371	
16	Brenda Maneda	Tourism Officer	IPG	35029	tourisabel@gmail.com
17	Patlyn Lokumia	Farmer	Mothers Union	7510612	
18	Everlyn Kane	Farmer	Mothers Union	7701425	
19	Robert Tura	Forestry Officer	Ministry of Forestry	35048	

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27th October- 5th November, 2014 –Buala, Isabel Province

Annex 1.2. List of Day 1 Workshop Participants (Monday 27th October 2014)

Ref	Names	Position	Organization	Telephone/Mobile	Email
20	Oliver Hiromane	PDO	MECDM	7457334	oliverhiro@gmail.com
21	Patterson Manesika	PC	RSIPF	7585437	
22	Rachel Leka	Literacy	Leader/Mothers Union	7780631	
23	Grace Delight		Mothers Union	7734163	
24	Jason Lexy	PHPO	HPO	7861129	jaycomadeki@gmail.com
25	Lonsdale Bako	Accom Student	MWSTM	7773008	londsbako@gmail.com
26	Walter Hasina	PPO	Planning Division, IPG	35013	spoipg@gmail.com
27	Nathaniel Hani	AHI	EHD/MHMS	7779584	
28	H.Marau			7578624	harrysmarau@yahoo.com
29	Freddy Haile	Fisheries Officer	MFMR	7928330	
30	John Pita	Manager	TNC	35027	jpita@tnc.org
31	Lyndon Barco	CAO (c)	Dept Community Affairs	35029	barcolyndon@gmail.com
32	Fr.Oshley Nabagna	Vicar General	Diocese	7824382	
33	Wendy Beti	EO	MECDM	7552607	WBeti@mecm.gov.sb
34	Rosemary Apa	CEO	MECDM	7473213	rosemaryapa@gmail.com
35	Debra Potakana	SEO	MECDM	7497455	debra.kereseka@gmail.com
36	Peter Ramohia	SPFM/NPMU	ADB CT PACIFIC	7759561	Pgino2011@gmail.com
37	Ethel Francis	Coordinator-ISWM	ADB	7553853	f.ethel@gmail.com

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Annex 1.3. List of Day 2 Workshop Participants (Tuesday 28th October 2014)

Ref	Names	Position	Organization	Telephone/Mobile	Email
1	Dorothy Bana	Literature	Mothers Union	7739468	
2	Jeffery Collin Tada	Awareness Coordinator	TNC (MU)	7734536	jeffcotada@gmail.com
3	Mark Toni	CAO(Admin)	IPG	7734129	
4	Loreta Soaki	WDO	Women's Division, IPG	7602027	Lo.kelimana@gmail.com
5	Alex Nindi	Leader	Buala	7551975	
6	Ephraim S	HKK Tausese	Haevo	7773255	ephysean@gmail.com
7	Steve Mauni	PFO	Ministry of Fisheries	7813040	
8	Clifton Basil	CIO	(Ministry of Commerce) Isabel Provincial Govt	7454999	Cliff_baz@yahoo.com.au
9	Jacob A	PFO	Ministry of Forestry	7861038	
10	Charles Barodi	Market Master	Isabel Provincial Government	7861002	
11	Gilbert Ragumana	Shop Keeper		7457078	
12	Everlyn Pihavaka	Women's Center	Buala (IPCW)	765258	evapihavaka@gmail.com
13	Jasper Kapili	Chief	Korege Village	7464543	
14	Ethel Bogese	Register Nurse Aid	Buala Hospital	7710371	
15	Brenda Maneda	Tourism Officer	IPG	35029	tourisabel@gmail.com
16	Patlyn Lokumia	Farmer	Mothers Union	7510612	
17	Robert Tura	Forestry Officer	Ministry of Forestry	35048	

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Annex 1.2. List of Day 1 Workshop Participants (Tuesday 28th October 2014)

Ref	Names	Position	Organization	Telephone/Mobile	Email
18	Oliver Hiromane	PDO	MECDM	7457334	oliverhiro@gmail.com
19	Patterson Manedika	PC	RSIPF	7585437	
20	Jason Lexy	PHPO	HPO	7861129	jaycomadeki@gmail.com
21	Lonsdale Bako	Accom Student	MWSTM	7773008	lonsdbako@gmail.com
22	Walter Hasina	PPO	Planning Division, IPG	35013	spoipg@gmail.com
23	Nathaniel Hani	AHI	EHD/MHMS	7779584	
24	Freddy Haile	Fisheries Officer	MFMR	7928330	
25	John Pita	Manager	TNC	35027	jpita@tnc.org
26	Lyndon Barco	CAO (c)	Dept Community Affairs	35029	barcolyndon@gmail.com
27	Wendy Beti	EO	MECDM	7552607	WBeti@mecm.gov.sb
28	Rosemary Apa	CEO	MECDM	7473213	rosemaryapa@gmail.com
29	Debra Potakana	SEO	MECDM	7497455	debra.kereseka@gmail.com
30	Peter Ramohia	SPFM/NPMU	ADB CT PACIFIC	7759561	Pgino2011@gmail.com
31	Ethel Francis	Coordinator-ISWM	ADB	7553853	f.ethel@gmail.com
32	Henry Mason			7578624	

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Annex 2: Photographs of Workshop and Waste Characterization Survey



Caption: Preparation of materials for waste audit



Caption: Facilitator for the 2 days workshop



Caption: CTI Project Coordinator, Peter Ramohia introducing the workshop program outline



Caption: Isabel Provincial Government Representative delivering the opening remarks

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Caption: Workshop participants & facilitators group photo



Caption: Composting demonstration by workshop facilitator



Caption: Workshop participants group discussion



Caption: Groups presentation after discussion



Caption: Workshop facilitators demonstration of waste audit with participants



Caption: Waste Audit team in Buala, Isabel

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Annex 3: Buala ISWM Workshop Evaluation by Participants

Percentage of Gender Participation		Male (21 out of 26 response) Female (5 out of 26 response)
1.Understanding of SWM Concepts & Tools		
1.1	Did the presentations provide useful information?	Yes (26) No (0)
1.2	Were the presenters clear in disseminating the information as per workshop objectives?	Yes (24) No (0) No answer (2)
1.3	Is the presentations & awareness materials easy to follow & understand?	Yes (25) No (0) No answer (1)
1.4	Do you now have a fair understanding of the waste management tools?	Yes (25) No(0) No answer(1)
1.5	Do you have a fair understanding of the waste management tools?	Yes(26) No(0) No answer (0)
2.Demonstrations and Activities		
2.1	Were the demonstrations clear & helpful?	Yes (25) No (0) No answer (1)
2.2	Were the activities appropriate to workshop objectives & outcomes?	Yes (24) No (0) No answer (2)
2.3	Is the time-frame of workshop activities & demonstrations appropriate?	Yes (22) No (3) No answer (1)
2.4	Do you think how the demonstration & activities organized enough?	Yes (20) No (4) No answer (2)
2.5	Are you satisfied with the presentations, activities & workshop organizations?	Yes (24) No (1) No answer (1)

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Other General Comments	
Any comments about the workshop?	<ul style="list-style-type: none">-I think the presentation way is clear, however some practicable cases that is clear the participants within the locality- The workshop is presented informative & perfect (workshop materials, foods, presentation topic)-Well done, facilitators conducted it with confidence-This workshop is very important because it will help our environment and also the province / community-Very important especially when the responsible authorities is taken up the leading role in providing such trainings and awareness-Two days training is not enough , we should all attend during the one week audit that the staff of environment will be doing after this 2 days' workshop-Important training that should target household/communities-This workshop gives us the knowledge in doing the right thing at the right place. This is the best way of improving our livelihood in future-Very useful-Very important workshop two days not enough-The workshop is very helpful and encouraging to manage our waste-More workshops be organized and conducted in a wider & bigger audience, more time(days) is required to successfully conduct workshop-First of this kind a very good workshop-This workshop was very clear & helpful in the ways how we should manage the solid waste by identified the proper waste for compost & which one is fit for dumping.

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	<ul style="list-style-type: none"> -Two days too short could extend for one week, overall it was a very interesting, enjoyable, helpful and creative -Workshop is clear & understandable.It is a very important workshop. -I am enjoy the workshop but due to short time, not enough otherwise I learned a lot though it take 2 days -Its good so that we can improve our town -Very important for livelihood this workshop must taken down to community level -The workshop is very useful information however need to reach people in rural areas.Urban and villages need to support this program -More emphasis of workshop should include site visits to actual identify the real issues on the ground
<p>Any comments about the composting demonstration activity?</p>	<ul style="list-style-type: none"> -Clear and Interesting -The demonstration activity was well demonstrated but need to do more research on the composting presentation to provide participants with more relevant information (months) time-frame of mature compost -Need more practical demonstration -My comment about the composting demonstration is very important to our community -Help family living within the township to have some idea as to how they can throw or reserve extra space for this ISWM in their homes -Very interesting would be best for each family have their own compost -Need more time to properly develop a demonstration for composting -Its really an idea of waste management control separating & controlling wastes in their proper garbage -Im interested about the composting demonstration activity and I do theory also as a practical (good theory and practical)

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	<ul style="list-style-type: none"> -It really gives an eye opener to improve family livelihood -More of such would be better (group demo) very important demonstration, easy to make and cheaper to own. Have, more time is needed for this demonstration -According to the activity & demonstration practically it gives us a clear picture on how to go about it & do it properly -It was easy & simple compost materials are available at no cost -It is very important to me and interesting because I can do it at home by myself. -I hope it's a good activity to introduce at home or family -This is one of the activity to reduce Solid Waste & this should be promoted to community households. -The demonstrator appeared very confident the simple method used is understandable -The composting demonstration should be more emphasized on practical step by step
<p>Any comments about the waste characterization demonstration activity?</p>	<ul style="list-style-type: none"> -Good to learn new things, especially the demonstration displayed -The demonstration was perfect which provide a true data for planning -All material must be properly at hand to prevent risks -Well conducted -It is good because it help us to know about the Three Rs system -Provide two plastic bags to each households for different categories of garbage -Should be good if any business owners here in Buala buy cans and bottles, so that it cut down the littering habits here rather than selling in Honiara -Very interesting to how much waste we produce per household Best solution is to avoid unnecessary dumping and reduce garbage households to dumpsite

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	<ul style="list-style-type: none">-Waste characterization demonstration is very interesting and should be practiced at our home for left over foods-Well demonstration clear and simple-Effective way of demonstration-Very important it clears the three Rs very good, it clears participants knowledge-The waste characterization demonstration activity help us to identify the source of waste where it comes from also it helps us to identify the differences in waste generation over a week.-It was clear & understandable, easy process to manage household rubbish-Should more on practical-To me it's a very good thing to us and it can learn our children to follow-up what we do about the waste characterization good for the province.-We learn a lot form the demonstration-Very practicable and understable need to be done carefully and accurately-This is good provided that there is proper channeling of the 3Rs to the appropriate authorities
Any other topics you would like to know about in any future workshop?	<ul style="list-style-type: none">-Policy writing that can be practicable & may be important for provincial authorities-Need to include in the presentation the vision(mission) of the ministry in the introduction-Awareness to residents be conducted-I like this workshop to further go to community level-Clarify the objective of this workshop-Highlight economic potential for utilizing waste to an economic drive-I'm interested in any other workshop relating to this workshop-If any updates or follow-up programs to be made in future to inform all provinces about your collective datas

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	<ul style="list-style-type: none">-Topics covered were ok; however should you recommend any related topics it will be fine-Workplan outline-Any further or future workshop , there should be a further detail in composting especially on how to further detail in composting especially on how to create a small gardening (supsup garden) thus it help the local people to generate income.-It is clear & satisfactory-We should continue such workshop like this for the better and good practice- Mainly in Buala we always eat fish, so why don't we demonstrate fish bone disposal-Data entry and waste characterization-The workshop has already covered all waste management practices both theoretical & practical-More on composting for women only
Any other general comments?	<ul style="list-style-type: none">-Thank team for effort to assist the team with the knowledge and skills and may help us to improve way forward-Need to work closely with the provincial Government ministry especially-No comments-To myself, two days workshop is too short because I represent the community-Village level would be different from town and need awareness for us in village-Two days workshop is not enough-A great opportunity for Isabel provincial Government to enhance-Its better to teach each level of people in all categories and emphasis this in government policy or bylaw-Provide same workshop and go down to community level-Need additional days for workshop-If possible we should establish a structure which will help to link us through from provincial level to national level in terms of

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	<p>committees. This is to help us strengthen the work of the provincial level for better health</p> <ul style="list-style-type: none">-Display/ show of movies or clips on success of composting e.g. experiences by people of an artificial island in Malaita-Generally the workshop is very important it put us participant a step forward-This kind of workshop must go down on the grass root people, thus I t will help out to address certain problem where people need to take on board in reference to the ISWM.-Transmission of teaching about the topic of rubbish. We need to include teachers from ECE, Primary & Secondary levels to such a workshop as this.-Should go to village level-Do you have time to come back & have another workshop/ follow-up-We need more workshops like this in future. Evaluate or follow-up on what's progress after the workshop-Communities & their leaders to actively participate in keeping clean the environment, environment division (IPG) must take on the awareness component of this program-Workshop is timely as Buala Town and village need to practice waste management
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