

**ACTION PLAN FOR THE  
IMPROVEMENT OF COLLECTION SYSTEM OF  
BARANGAY 182, Zone 16,  
Tondo, Manila**

**I. OBJECTIVES**

- 1.1 Establish a regular collection schedule for the contractor and primary collector.
- 1.2 Introduce a primary collection system by the use of pushcarts.
- 1.3 Install communal discharge point (s).
- 1.4 Establish a collection service fee for the primary collectors.
- 1.5 Establish responsibilities of stakeholders.

**II. PLAN FRAMEWORK**

- 1.1 The action plan is based on the result of the focussed group discussion and further consultations.
- 1.2 It will commence with a "General Cleaning Day" that will be participated by the residents.
- 1.3 The pilot project will be implemented for a period of \_\_\_\_\_ months. It shall be monitored and implemented.

**III. COMPONENTS**

**1. Discharge by Household**

Frequency	:	once daily
Time	:	7:00 - 9:00 a.m.
Place	:	front of premises
Container	:	plastic bag, sack, etc.

2. Collection by primary collectors

Frequency : once daily  
Time : 7:00 - 9:00 a.m.  
Collection System : door-to-door (curb side coll.)  
Collection route : inaccessible streets in the area  
each collector covers a specific area  
Discharge points : Communal Storage  
Equipment : Pushcart, stick broom, shovel

3. Communal Storage : Size  
Material:  
Steel gates (lockable)  
Place: \_\_\_\_\_

4. Collection by Local Government

Frequency : daily  
Time : 10:00 a.m.  
Collection : point collection, stationary  
Place : Communal Storage  
across estero de apog  
along Mendoza st. bet.  
P. Danganan St. Hermosa St.

5. Institutional System

Collection Service Fee : P1.00 - P5.00/ day Voluntary  
Contractor Truck  
DPS of the LGU (City of Manila)

6. Responsibilities/Accountabilities

6.1 Residents

- \* Store and discharge waste according to collection schedule.
- \* Keep premises clean at all times.
- \* Voluntarily give P1.00 - P5.00 to the primary collector
- \* Participate in the "Clean -up Day" that will kick-off implementation of the pilot project

## 6.2 Barangay Officials

- \* Appoint five (5) primary collectors and issue identification card.
- \* Pay the five (5) primary collectors on a monthly basis.
- \* Prepare contract with primary collectors defining responsibilities.
- \* Inform all the residents of the household waste discharge method, frequency, and time.
- \* Encourage the residents to give the primary collectors "financial tokens" each time their household waste are collected.
- \* Decide the management system of pushcart and communal discharge points. (responsible person, maintenance, repair, inspection, proper use). This should be contained in the contract.
- \* Secure the acceptance of the residents living near the communal discharge points.
- \* Monitor the implementation of the new collection system.
- \* Support the "Clean -up Day" activity and ensure participation of all residents.

- \* Enforce existing ordinances on anti-littering (MMDA regulations 96-009) and others that affect collection system, i.e. traffic rules

### **6.3 Primary Collector**

- \* Provide a reliable collection work on schedule, adequate coverage of route, proper handling of collected waste.
- \* Operate and maintain pushcarts and discharge points: maintain cleanliness of equipment/storage facility and avoid having them stolen/vandalized.
- \* Use pushcart for garbage collection only.
- \* Look clean (wear ID and handgloves) and behave well (dont demand payment) during worktime.

### **6.4 Residents Nearby Communal Storage**

- \* Accept installation of facility
- \* Monitor cleanliness, maintenance of facility
- \* Report to Bgy. Officials mismanagement of facility

### **6.5 LGU (Dept. of Public Services)**

- \* Dedicate a collection truck for the pilot area.
- \* Monitor performance of collection truck contractor in the pilot area.
- \* Support the "Clean-up Day" by providing equipment (stick broom and garbage bags: snack/drinks), and sending staff to participate.

### **6.6 Contractor**

- \* Provide regular collection service. Keep schedule.
- \* Participate in the "Clean-up Day"
- \* Maintain road-worthliness and cleanliness of truck.
- \* Provide necessary paraphernalia of truck (if open dumptruck, include tail-gate and garbage cover)

6.7 MMDA provide fifteen (15) river aides personnel and equipment to clean the esteros on "Clean-up Day"

- \* Spearhead the "Clean-up Day" with the JICA and the Barangay officials coordinate the program.

6.8 JICA

- \* Provide five (5) units of pushcart
- \* Install 1 communal storage facility
- \* Supervise and monitor the entire pilot project.

7.0 CONFORME OF BARANGAY OFFICIALS, MMDA, JICA, LEONEL, LOCAL GOVERNMENT (Pag-sang-ayon ng mga kinauukulan)

	NAME	POSITION	SIGNATURE
1.	MR. DANILO UNA	MAYOR	Barangay Chairman _____
2.	MR. ROGELIO U. URANZA	Head, IPDG-SWMO	_____
3.	MR. KOJI KUSUNOKI	JICA EXPERT	_____
4.	MR. LEONARDO V. UY	LEONEL	_____
5.	ENGR. DEOGRACIAS MANIMBO	Head, DPS	_____

**WORKSHOP ON IMPROVEMENT OF GARBAGE COLLECTION SYSTEM**  
**Barangay Bayan-Bayanan, Municipality of Malabon**  
**February 22, 1998, 8:30 a.m. - 3:30 p.m.**

NAME	ADDRESS	LIVELIHOOD
1. Dolores Juat	118 Liwayway St.	Housewife
2. Rebecca Ongie	118 Liwayway St.	Housewife
3. Jovy B. Ocsebio	49 Liwayways St.	Vendor
4. Graciano Mendoza	14 Katipunan St.	Driver
5. Teresita Olaer	15 Katipunan St.	Vendor
6. Anita Mendoza	14 Katipunan St.	Housewife
7. Sonia A. Mistula	14 Katipunan St.	Housewife
8. Carlo Dela Cruz	Bayan-bayanan St.	Jobless
9. Fruto Penaflor	143 Celia II St.	Trainor
10. Clemente Felix	Katipunan St.	Bgy. Chairman
11. Ricardo Cruz	Celia I	Driver Mechanic
12. Ricardo Dy	Liwayway St.	Bgy. Sweeper
13. Modesta Hernandez	12 Katipunan St.	Housewife
14. Oscar Muro	399 Gen. Luna	Pres. NGO (Kasali-Kabayan)
15. Regy de Goma	58 Katipunan	Jobless
16. Danilo E. Javier	Rodriguez St.	Bgy. Kagawad
17. Patrocinio Macali	Celia 2 St.	Bgy. Tanod
18. Ernesto Esparwa	Liwayway St.	Car wash boy
19. Javier Meneses	69 Rodriguez St.	Jobless
20. Crisanto Cruz	53 Leonio St. Celia II	Jobless
21. Yolanda Acid	118 Liwayway St.	Housewife
22. Gloria Joss	Katipunan 2	Fish Vendor
23. Cecilia Eramis	118 Liwayway St.	Sari-sari owner
24. Sylvia T. Onofre	18 Liwayway St.	Housewife
25. Leonora Giccuran	Katipunan Riverside	Housewife
26. Myla Espiritu	Liwayway St.	Student
27. Purita Arella	Katipunan St.	Store Owner
28. Elsa B. Cruz	Celia I St.	Secretary
29. Emelita Aquino	29 Katipunan St.	Jobless
30. Nenita Tulio	28 Katipunan St.	Housekeeper
31. Vangie Rosales	31 Katipunan St.	Jobless
32. Vilma Sevilla	LGU	Employee
33. Alfredo Ignacio	12 Celia 2	Seaman
34. Evy Reloy	34 Liwayway	Vendor
35. Gloria Venuz	31 Katipunan	Housewife
36. Anita Mendoza	14 Katipunan	Housewife
37. Rosalinda Domingo	39 Liwayway St.	Store owner

38. Esmeralda Estimada
39. Alfredo dela Cruz
40. Elisa Dillig
41. Aristeo Tuazon
42. Jose A. Tulio
43. Josephine Eusebio
44. Levy Flores
45. Guillermo Onofre

#### **MMDA**

1. Elsie Encarnacion
2. Raquel Lometillo
3. Connie Astorga
4. Emma Caldino

42 Katipunan St.  
Celia I  
91 Celia St.  
Celia II  
28 Katipunan  
Celia I  
76 Celia I  
18 Liwayway St.

#### **JICA**

Mr. Kusunoki  
Mr. Zusuki

Housewife  
Driver  
Sewer  
Jobless  
Jobless  
Bgy. Caretaker  
Bgy. Treasurer  
Bgy. Kagawad

#### **LGU**

Bernarditas de Galicia

# **WORKSHOP ON IMPROVEMENT FOR COLLECTION SYSTEM**

**Bgy. Batasan Hills, Kalayaan B, C, Quezon City**

**February 19, 1998, 8:00 a.m. - 3:30 p.m.**

<b>NAME</b>	<b>ADDRESS</b>	<b>LIVELIHOOD</b>
1. Leonie Pinto	Marangya St. Freedom Park 2	Housekeeper
2. Jose Gerbabuena	Orchids St. Freedom Park 3	Driver/Purok L.
3. Sonia Bello	Kagandahan St. IBP, B.H.	Bgy. Nutrition
4. Nora Taeza	Jonah St., Freedom Park	Housekeeper
5. Tess Busadre	Jonah St., Freedom Park 4	Pub. Sch. Teacher
6. Elsa Tormon	Nieves St., Freedom Park 6	Dressmaker
7. Rose Camacho	#2 Kalinisan St., K.A.	Housekeeper
8. Virgie del Socorro	Kalusugan St., K.A.	Bag Maker
9. Herminia Briones	Kalusugan St., K.A	Fruit Venodor
10. Violy Hitois	#4 Kalusugan St. K.A.	Sewer
11. Rey Parrenas	121 Laurel St. F. Park 6	Electrician
12. Lourdes Maqui	Masaya St., F. Park 2	Housekeeper
13. Percie Tatel	Freedom Park V	Vendor
14. Tony Bernardo	26-D Kalayaan D	Driver
15. Emilia Mabanta	Freedom Park V	Housewife
16. Amado Brangaza	26 D Kalayaan D	Driver
17. Edwin Rojas	Freedom Park V	Vendor
18. Romeo Teston	#8 Kalayaan D	Painter
19. Abraham Varias	Freedom Park V BH	Const. Worker
20. Gemma	18 IBP Road BH	Manicurista
21. Dr. Elias Gamboa	12-B Fiinbest Road	Physician
22. E. Reynlado Estipona	LGU-QC	OIC-Dist II B, .
23. Frederika Rentoy	LGU-QC	Chief, Task F. Clean & Green
24. Eulalio Dawat	4 Kalayaan D.	Jobless
25. Pancrasio Suela	Kalayaan B. Kaibigan St.	Carpenter
26. Sergio Atienza	29 KB B.H.	Jobless
27. Nilda Villas	KB St.	BDDO Coord.
28. Diosdado Danico	KB Kabutihan St.	Madon-Carpen.
29. Ricardo P. Nueva	Gulod St., K.B.	Jobless
30. Victoria Callueng	Purok Kagandahan St.	Vendor
31. Evangeline Aborita	Bgy. Traffic Aide	Kapatiran St., KB
32. Marcelino Dobra	KB, Dispatching Office	Mgr. Transtar
33. Santiago Dulza	Alley St. KB	Driver
34. Florencia Lovedorial	KB St.	Vendor
35. Eduardo Diesta	9 Kalayaan B.	Driver



36.	Jose Guererro	Kalayaan B.	Mason
37.	Mike Galicia	#3 KB, BH	Driver
38.	Leonardo Quenanp	2nd St. KB	Driver
39.	Jolly Tam-boon	Kalayaan B.	Mason
40.	Adjutor Lozano	KB	Barber
41.	Jose Guanzon	KB	Pipe fitter
42.	Esteban Espenansin	27 Kalayaan C. St.	Cook
43.	Renato Ortiz	KC St., BH	Baker
44.	Marlon Marmolejo	Kalayaan C.	Vendor
45.	Corazon Ortega	KC Ext. (Libis)	Purok Leader
46.	Mario Casilag	#41 Kalayaan C. Ext.	Pedicab Oppt.
47.	Saturian Gaylon	#32 Kalayaan St.	Jobless
48.	Joselito dela Cruz	Kalayaan C. Ext.	Jeepney Driver

#### **MMDA**

1. Elsie Encarnacion
2. Rachel Sangalang
3. Connie Astorga
4. Raquel Lometillo

#### **JICA**

Mr. Kusunuki  
Mr. Suzuki

**WORKSHOP ON IMPROVEMENT FOR COLLECTION SYSTEM****Barangay 182, Zone 16, Tondo Manila****February 13, 1998, 8:30 a.m. - 3:30 p.m.**

NAME	ADDRESS	LIVELIHOOD
1. Virgilio, Francisco	2804 Taladtad St. Tondo, Mla.	Kagawad
2. Benjamin de Guzman	549 Hermosa St.	Streetsweeper
3. Danilo de Guia	565 Pag-asa st.	Streetsweeper
4. Emmanuel Esrome	555 Peralta St.	Tanod
5. Yolanda Evangelista	530 Rd. 4 St. Gagalangin	Treasurer
6. Danilo Unamayor	607 Pag-Asa Ext.	Bgy. Chairman
7. Celso Inobaya	2809 R. Cruz St.	Bgy. Secretary
8. Fortunato Borre	617 Hermosa St.	Bgy. Kagawad
9. Ernesto Garcia	2745 G. Santos	Street Sweeper
10. Rogelio Mercado	563 Pag-Asa Ext.	Lupon
11. Roberto Aledron	2801 P. Brenda St.	Lupon
12. Ana Garcia	522 Rd. 4 Gagalangin	Lupon
13. Pacita Maynigo	527 Rd. 4 Gagalangin	Lupon
14. Rosalie Alfaro	2818 Adriano St.	Housewife
15. Salomie Mactal	2774 R. Cruz St.	Bisig
16. Erlinda Sialongo	2795 Adriano ST.	Bisig
17. Victoria Ibasco	574 Rd. 4 Gagalangin	Lupon
18. Virglio Gallardo	591 Hermosa St.	Kagawad
19. Milagros Gallardo	541 Hermosa St.	Lupon
20. Joeffrey Zapata	2735 Cton St.	Kagawad (SK)
21. Marlon Eusebio	575 Pag-asa St.	Kagawad (SK)
22. Elizabeth Noble	553 Pag-asa St.	Resident
23. Gregorio Ponseca	2741 G. Santos St.	Tanod
24. Sergio Abello	2799 Taladtad St.	Lupon
25. Reynaldo Adriano	M. Pascua St.	Tanod
26. Erning Nunag	614 J. Cunanan St.	Tanod
27. Saturnino Ponseca	2748 G. Santos St.	Resident
28. Nelso Ocampo	City Hall Manila	OIC Admin
29. Rosemari de Leon	City Hall, Manila	Govlt. Emplo
30. Melvin Contreras	C. Avelino Elem School	Teacher
31. Yolanda Dolerdo	-do-	School Nurse
32. Virginia Gallardo	-do-	Teacher
33. Virginia Tenorio	-do-	Principal
34. Remia Guevarra	-do-	Teacher
35. Louie Lomibao	Taladtad St.	Streetsweepers
36. Alberto Pablo	573 Ramires St.	Tanod

37. Marina Torrieffel		Housewife
38. Edilberto Eusebio	P. Daganana	Tanod
39. Arnel Saenz		Tanod
40. Nida Alolod	L. Avelino Elem. School	Teacher
41. Merlita Lobin	-do-	Teacher
42. Renato Mansilungan	-do-	Zone Manager
43. Rodolfo Cavenero	Pag-asa Ext.	Electrician
44. Milette Vendua	Pag-asa Ext.	Housewife

#### **MMDA**

#### **JICA**

1. Elsie Encarnacion	Mr. Kusunoki
2. Rachel Sangalang	Mr. Urushibata
3. Connie Astorga	Mr. Zusuki
4. Raquel Lometillo	Mr. Yamada
	Mr. Costa-Leite

## **FOCUSED GROUP DISCUSSIONS IN THE PILOT SITES**

Bgy. 182, Zone 16, Manila City

Venue : Basketball Court, Peralta St, cor. Pag-asa Ext.

Date : February 13, 1998

### **Attendance:**

Forty-four participants attended the FGD composed of more males (59%). More than half of the participants were barangay officials (24). Six teachers and one nurse represented the community elementary school. The 4 street sweepers of the community have participated and two officers of Public Services of Manila have attended. The garbage collection contractor of Manila (LEONEL) sent a representative.

### **Breakdown of Participants:**

a. Barangay Officials	-	24
b. Teacher	-	6
c. St. Sweeper	-	4
d. Housewife	-	3
e. Resident	-	2
f. School Nurse	-	1
g. OIC, Admin (LGU)	-	1
h. Gov't employee	-	1
I. Contractor Rep.	-	1
j. Electrician	-	1
		====
		44

### **Members WMS Master Plan Study:**

#### **MMDA**

1. Elsie Encarnacion
2. Connie Astorga
3. Rachel Sangalang
4. Raquel Lometillo

#### **JICA**

1. Mr. Kusunoki
2. Mr. Zusuki
3. Mr. Costa-Leite
4. Mr. Urushibata
5. Mr. Yamada

### **Concerns and Issues Raised by Participants:**

- \* The main concern of the participants is the irregularity of collection schedule: no fixed day, no fixed time. Although the contractor claims that it goes to the barangay on a daily basis, residents say that the truck is almost half-full when it arrives on the main streets. Thus, residents are forced to leave their bags of garbage on the street corners.
- \* The irregular schedule of the collection trucks is aggravated by the unavailability of the container bins or communal storage on the main road at the end of the narrow streets. Primary collectors (push cart boys/street sweepers or any willing boy) who are paid to take the garbage to the truck also dump the garbage anywhere when the truck is already full.
- \* Because the truck arrives irregularly or already half-full, residents feel that there is not enough trucks.
- \* There is not enough push cart to collect from inaccessible streets.
- \* Obstruction (illegal parking etc.) on the streets aggravate inaccessibility.
- \* There is lack of cooperation from the community. Many household do not practice :Tapat mo, Lines mo" (Clean your own front yard).
- \* Many people simply do not know proper way of garbage disposal. Some end up throwing their garbage at the esteros.
- \* Dog droppings on the streets are smelly and attract flies.

#### **Suggested Solutions:**

##### *a. Waste Discharge*

- \* Garbage should be properly bagged before it is taken out of house for collection.
- \* Garbage should only be put out when the truck or primary collector arrives.

##### *b. Waste Collection and Storage*

- \* Collection should be done daily at a fixed time.
- \* Garbage container should be placed on the main street.
- \* There should be 6 push carts to access the narrow streets.

*c. Discipline*

Discipline should start from the higher authority down the barangay level and residents.

*d. Law Enforcement*

- \* Enforcement of traffic rules should be done to make the streets passable.
- \* Passage/enforcement of ordinances on:
  - manners of waste discharge
  - anti-littering
  - dog droppings (or waste)
  - regular schedule of waste collection
  - clean your own front yard

*e. Information Dissemination/Feedback System*

- \* Everybody should be informed of the garbage collection schedule.
- \* The garbage truck should blow its horn or ring bell to announce its arrival.
- \* Barangay officials should conduct an intensified drive on proper waste handling, proper drainage management as well as community cooperation.
- \* Problems should be reported to the Barangay Chairman and/or DPS tel. No. 527-49-67; 527-96-38.

**Visioning:**

Grouped into 4, the participants, based on the itemized solutions, expressed into drawings how they would like to see their community in the future in so far as solid waste management system is concerned. In a summarized form, the participants see a clean and green community where residents cooperatively maintain the cleanliness of their front yards, with enough number of push carts collection from door to door, with strategically situated communal storage facility and a regular collection of the contractor.

**Stakeholder Analysis:**

The participants recognized that the residents have the greatest responsibility, followed by the Bgy. officials and the private contractor.

#### **Resident**

- \* Contain household waste in garbage bags and discharge only when collector/truck arrives.
- \* Maintain cleanliness by religiously doing the :Tapat Ko, Linis Ko”.
- \* Teach other members of household proper ways of waste handling.
- \* Coordinate with Barangay Officials to keep updated with new ordinances, community rules and regulations.
- \* Give financial contributions to the primary collector voluntarily.

#### **Barangay Officials**

- \* Monitor the present collection activities, notify the residents on the availability of the garbage truck.
- \* Provide salary/allowance for pushcart operator.
- \* Enforce strictly of laws and ordinances regarding solid waste management.
- \* Inform the local government unit on the concerns/problems on solid waste management in the area.
- \* Officially accredit primary collectors. Issue ID card.
- \* Coordinate with the contractor about the need to provide more trucks for the collection of garbage.

#### **Pushcart Man**

- \* Collect garbage regularly.
- \* Always put the collected garbage on the proper storage.
- \* Wear ID while collecting garbage.

#### **LGU**

- \* Promote waste reduction to minimize garbage volume.
- \* Responsible for the collection of garbage.
- \* Monitor barangay activities.
- \* Support the project of MMDA-JICA on Pilot Collection Project.

#### **Garbage Contractor**

- \* Provide collection truck as stipulated in the contract.
- \* Collect the garbage regularly or as scheduled.
- \* Coordinate with the barangay officials.
- \* Provide cover for the collection truck.

#### **MMDA**

- \* Help implement pilot collection project.
- \* Develop plan on how to improve waste collection.
- \* Coordinate with the LGU and Barangay Officials on the progress of the project.
- \* Conduct workshop/seminars regarding solid waste.
- \* Provide manpower to assist in the general clean up of the barangay.

#### **JICA**

- \* Provide technical assistance.

#### **SK**

- \* Assists the barangay officials in implementing the laws and regulations on solid waste management.

#### **SUMMARY :**



There is need for pushcart to collect from inaccessible streets

- \* Use of pushcart for small street
- \* One container for wet garbage one container for dry at the end of each small street.
- \* Regular schedule of the assigned contractor
- \* Existing ordinances to be implemented.
- \* There is
  - P500.00/month from Barangay funds.
  - P1.00/plastic bag/collection
  - P2.00 to P5.00/family

#### **Action Plan (Agreement)**

##### **Launching Ceremony (*General Clean Up Day*)**

- Program
- Primary Collection Map

**FOCUSED GROUP DISCUSSION IN THE PILOT SITES**  
**Barangay Bayan-bayanan, Municipality of Malabon**  
**February 21, 1998 (Saturday)**

**ATTENDANCE**

Forty-six residents attended the workshop, 6 more than the targeted number, 69% of whom were females. Breakdowns of participants is as follows:

a. Housewife	-	12
b. Jobless	-	8
c. Bgy. Officials	-	6
d. Vendor	-	4
e. Driver	-	3
f. Store Owner	-	3
g. LGU Rep.	-	2
h. Trainor	-	1
I. St. Sweeper	-	1
j. NGO	-	1
k. Carwash Boy	-	1
l. Student	-	1
m. Secretary	-	1
n. Sewer	-	1
o. Seaman	-	1
		=====
Total . . . . .		46

**ISSUES RAISED**

- \* Because of the large amount of garbage, the street sweeper/collector cannot collect all in a day so that residents have to pay other boys to take the waste to the main street on temporary dumping area .
- \* The accumulation of waste is also caused by irregular schedule of collection.
- \* Lack of discipline and knowledge about proper management of waste as manifested by dumping at canals and burning. Also while in transit to the storage area across the barangay center, garbage collected by pushcart drop on the streets.
- \* Garbage in the murky water under the houses that are constructed too close to each other emit very bad odor.
- \* Lack of storage bins where litters could easily be put.

- \* Lack of sufficient development in the community regarding SWM
- \* Animal wastes are littered on Streets.
- \* Lack of information on waste segregation.

## **SOLUTIONS**

- \* Provide additional pushcarts and garbage collectors/streetsweepers in small streets.
- \* Store waste properly. Households should place them in plastic bags and maintain cleanliness of their area including removal of garbage under the houses.
- \* Provide a covered container/bin for every household, or a drum for 5 or more houses.
- \* Time for collection should be fixed and sufficient to allow all to bring out their stored waste.
- \* Households conduct a general cleaning.
- \* Conduct Workshop on market waste (refer to TLRC)
- \* Cover the swampy area under the houses with soil.
- \* Enforce existing laws on anti-littering, stray dogs and illegal dumping particularly throwing garbage into the esteros.

**Vision :** *Malinis, Mabango at kaayang-ayang kapaligiran Bayan-bayanan*

## **STAKEHOLDERS**

The stakeholders have been identified by the participants and recognized that each has an important role to play.

### **Residents**

Residents are the waste generators they should :

- \* Segregate their garbage

- \* Wait for the garbage collector
- \* Wrap pampers properly
- \* Follow ordinances regarding Solid Waste
- \* Maintain cleanliness in their community
- \* Voluntary pay P2.00 to P3.00 per plastic bag of garbage to the garbage collector.

#### **Primary Collector**

- \* Collect at least 3 x a week
- \* Should look neat and with ID
- \* Receive voluntary payment of P2.00 to P3.00 for every plastic bag of garbage.

#### **Barangay Officials**

- \* Take the lead in the implementation of the project in the community.
- \* Enforce existing relevant laws/ordinances.
- \* Monitor the daily activities of the project.
- \* Give proper sanctions to residents who are not cooperating.

#### **LGU**

- \* Should support the project
- \* Should monitor the Barangay activities/project.
- \* Provide the main vehicles for collection of garbage and collect regularly

#### **NGO/Religious/civic group/school institution**

- \* Advocacy effort/training/monitor
- \* Disseminate information regarding sanitation.

## **CONSENSUS**

- \* That residents are requesting pushcart in narrow st;
- \* That they are willing to pay P2.00 to P3.00 pesos per plastic bag of garbage;
- \* That they are willing to have a general cleanup day wit the help of all agency concerned;
- \* Fixed time for collections of garbage at least 2 to 3 time a week;
- \* Look for a new collection point;
- \* That they need additional primary collectors/sweepers.
- \* Enforce all ordinances, (Regulation 96-009-anti littering law, PD 825);
- \* Integrate all their issues/solutions into an action plan, this action plan will be presented to the officials and disseminate to the resident and all the stakeholders.

**BYG COMMONWEALTH KALAYAAN B & C  
QUEZON CITY**

**Venue :Bgy. Commonwealth Kalayaan**

**Date : February 19, 1998**

Out of the 48 participants, 24 (17 -KB; 7 -KC) are residents of Kalayaan B and C only. The other half came from other streets like Kalayaan D, A, Freedom Park II, III, IV and IBP road. Nineteen (19) of the participants are females (39.58%, 29 are male (60.42%). Almost all sectors of society are represented.

a.	Physician	1
b.	Host LGU	2
c.	Contractor Rep.	1
d.	Drivers	8
e.	Housewife	5
f.	Vendors	4
g.	Const. Worker	2
h.	Jobless	4
i.	Mason	3
j.	Bag Maker	1
k.	Electrician	1
l.	Painter	1
m.	Manicurist	1
n.	Sewer	1
o.	Dressmaker	1
p.	Carpenter	1
q.	Cook	1
r.	Baker	1
s.	Barber	1
t.	Bgy. Traffic Aide	1
u.	Student	1
v.	Teacher	1
w.	Pipe fitter	1
x.	Purok leader	2
y.	Pedicab Operator	1
z.	Scholar	1

**ISSUES RAISED**

**\* Collection Schedule/Collection Trucks**

- 23% said that trucks are too small to accommodate all the garbage.
- Some garbage are left behind after collection.
- Some collection trucks ignore the garbage along their route.

- Some collection trucks are always in a hurry that's why residents have a hard time catching up with them.
  - 8% said that some collection crew will not collect their garbage without a fee (small amount P1.00).
  - 17% said that there's an irregular schedule of garbage collection (time/day)
  - Uncollected garbage in front of daycare center might affect the health of the children.
  - Garbage trucks crew will not allow the residents to dump their garbage if the truck is full.
  - Garbage very cruel (Basura kay lupit).
- \* *Creek/Canal/Drainage*
- 15% said that continuous dumping of garbage along esteros and creek.
  - 4% agreed that canal is too small.
  - No canal
  - Over-flowing of canal
- \* *Discipline*
- 17% agreed that lack of cooperation/discipline among residents regarding proper waste disposal.
  - Garbage not segregated.
  - Lack of awareness RE: Proper waste management.
- \* *Animal waste litter along the streets.*
- \* *Unfinished construction/Asphalting of the street.*
- \* *Irregular distribution of garbage bag. (once the government provided them with black plastic bag).*
- \* *10% said that there are no bins/receptacles along the streets for garbage disposal.*
- \* *Collection points are too far (for inner streets residents)*

## SOLUTIONS

- \* *Collection Schedule*
- 17% said that schedule of collection should be at least be 3 - 4 times a week.
  - 8% said that the garbage truck should be big enough to accommodate all the garbage of the residents.
  - To collect all the garbage 2 trucks a day are needed.
  - There should be a daily collection of garbage to minimize the volume.
  - The LGU/Barangay should purchase additional truck.

- In every street, there must be a regular collection schedule of garbage trucks.
- There is a need for at least 10 units of push carts for their ongoing projects.

\* *Proper Drainage System*

- Collect/remove garbage from the creek.
- Finish works on canal to avoid flooding.
- Maintain open canal to avoid flooding.
- Maintain open canal, Kalayaan B canal should not cross kalayaan C canal.
- Resolve garbage concerns as soon as possible before the rainy season comes.
- Provide manhole so that canal will not overflow.
- Cooperation among resident is needed to clean the creek in the area.
- There should be barangay intervention on drainage planning and construction.

\* *Segregate bottles, plastic or tin cans.*

\* *Handle waste properly such as burning of paper, if needed. (This suggestion was further discussed and participants resolved that there should be no burning of garbage allowed..*

\* *Dispose garbage properly and in the right place.*

\* *Secure pets.*

\* *Store garbage in sacks, plastic bags, trash can, properly to facilitate collection.*

\* *Collection Receptacles at Collection Points*

- 4% said that big containers be provided at collection points; 4% suggest that drum be provided in every corner of alley; or
- Provide trash can with a distance of 50 meters and collect it daily by the garbage truck; or in any proper place to facilitate collection.
- There is a need for sacks to put in garbage.

\* *Information Dissemination and Enforcement*

- Apprehend garbage violators by giving them citation ticket
- The LGU/Barangay should inform the residents of the time and day of collection.
- There should be workshops and/or information dissemination at barangay/community level regarding proper waste disposal



## STAKEHOLDERS

The residents recognize that they are the source of the waste produced in the community. They also recognize that to be able to manage properly their generated waste, they need the support of the other sectors in the community. Based on their identified concerns, and suggested measures to solve their problems, the participants listed down the stakeholders-defining their roles within a given frameworks:

- Keep garbage in their household until collection time.
- Recommend measures on how to improve waste collection.
- Participate in any activity in the barangay on a continuing basis.
- Comply strictly with laws and ordinances.
- Participate in the “tapat ko, linis ko” to help maintain cleanliness in the community.
- Share in the financial burden of waste collection (at least P1.00 - P3.00).
- Coordinate with street leaders.
- Report to the barangay any garbage pile.
- Teach the other members of the household the proper waste handling practices.

### \* *Barangay Officials*

- Strict enforcement of laws and ordinances regarding Solid Waste Management.
- Monitor Collection of garbage.
- Provide salary/allowance for pushcart operators.
- Seek cooperation from residents regarding Solid Waste Management
- Implement programs on Solid Waste Management

### \* *Primary Collector*

- Collect garbage regularly and on time.

- Avoid littering while pushing the cart.
- Always put the collected garbage inside the receptacle
- Maintain personal hygiene. Wear protective gadgets like gloves, mask.
- Wear ID while collecting garbage.

\* *LGU/Environmental Officer*

- Responsible for collection of garbage.
- Monitor Barangay activities/projects.
- Support the project of MMDA-JICA on pilot collection project.
- Recommend measures to improve waste collection.

\* *Contractor*

- Provide collection truck as stipulated in the contract.
- Maintain regular collection schedule.
- Coordinate with the Barangay Officials.
- Provide data/information to LGU/Barangay officials on waste volume and other related concerns regarding solid waste.
- Provide cover for the collection truck.

\* *MMDA*

- Help implement pilot collection project.
- Monitor and evaluate the pilot project
- Develop plans on how to improve waste collection.
- Coordinate with LGU and barangay officials on the progress of the project.
- Provide technical assistance.
- Provide manpower to assist in the general clean-up of the barangay.
- Conduct workshop/training/seminar regarding solid waste.
- Provide linkages between JICA, NGO's and other civic organization.

\* *NGO*

- Provide financing on solid waste management projects.
- Disseminate information regarding sanitation.
- Conduct seminar research studies on SWM.

\* *Religious Group*

- Support, train, teach, proper waste handling

\* *Civic Group*

- Provide financing or solid waste management
- Conduct seminar, research studies on solid waste management.

\* *City Engineers*

- Repairs bad roads
- Dredge canals

\* *Teachers*

- Teach pupils/student the concept of solid waste management and enable them to be demonstrators in their own homes or barangays.

\* *JICA*

- Propose measures to institutionalize public participation.
- Provide technical assistance.
- Supervise and monitor pilot project on SWM
- Provide the pushcart and other equipment

## CONSENSUS

- \* Regular collection schedule of the assigned contractor at least 3-4 times a week;
- \* Existing ordinances to be implemented;
- \* That there will be a clean-up before implementing the pilot-project;
- \* That there is a for need push carts for inner/small streets;
- \* That people living in alleys/inner roads need storage/containers.
- \* That the residents maintain cleanliness within their community; and
- \* MMDA/JICA integrate all solutions identified into an action plan and will present them to the barangay officials. The barangay will disseminate the information to the concerned residents and stakeholders

## **MEMORANDUM OF AGREEMENT**

This **MEMORANDUM OF AGREEMENT**, hereinafter referred to as **"MOA"** made and executed this \_\_\_\_\_ day of \_\_\_\_\_ in City of Manila by and between:

- 1) The Department of Public Services (hereinafter referred to as **"DPS"**), a local government office at the Republic of the Philippines, with office address at the Manila City Hall, (herein represented by its Officer-In-Charge, DPS, ENGR. DEOGRACIAS MANIMBO) and
- 2) **LEONEL Waste Management Corporation** (hereinafter referred to as the **"Contractor"**), a private corporation engaged in garbage hauling services, with office address at 1571 Cristobal St., Paco, Manila, (herein represented by its President, **LEONARDO V. UY**) on the one part and
- 3) **JAPAN INTERNATIONAL COOPERATION AGENCY MASTERPLAN STUDY FOR SOLID WASTE MANAGEMENT FOR METRO MANILA** (hereinafter referred to as **"JICA, Study Team"**), an International organization with office address at **MMDA Bldg., Orense St., Makati, Metro Manila**.
- 4) The **Barangay 182 Zone 16, Tondo, Manila Government**, (herein referred to as the **Barangay**) represented by its duly elected **Barangay Captain, Hon. Danilo Unamayor**, and
- 5) **Residents of Barangay 182 Zone 16**, (herein referred to as the **"Residents"**) represented by \_\_\_\_\_

## **WITNESSETH**

Whereas, it is a fact that as the population and economic activities of the City grow, the problem on solid wastes also grows as that it is imperative for the City to set as one of its highest priorities the improvement of waste collection and disposal to enhance the quality of life of the citizenry;

Whereas, the City, in its desire to carry out an environmentally sound and cost efficient solid waste management program, is tapping all sectors to

participate in the over-all Solid Waste Management Program of the City, including the community;

Whereas, despite efforts to attain a 100% efficiency in garbage collection, there are areas in the City which are inaccessible making garbage collection impossible.

Whereas, JICA, has signified its intention to collaborate effectively with the City's drive for a clean and healthy environment, thru the implementation of a pilot project on the improvement of Garbage Collection System in an inaccessible area in the City;

Whereas, said project shall require the full support and cooperation of the City, the private contractor, the barangay and the community in order to carry out said project. In view of this, all parties agreed that specific roles and responsibilities of all concerned shall be drawn up and shall be the basis for implementing this joint project.

Now therefore: For and In Consideration of the foregoing premises and of the following covenants; all parties hereby stipulate to undertake a joint project which will entail the following:

## **MEMORANDUM OF AGREEMENT**

This **MEMORANDUM OF AGREEMENT**, hereinafter referred to as "**MOA**" made and executed this 11th day of March 1998 in Quezon City by and between:

- 1) The Quezon City Task Force Clean and Green (hereinafter referred to as "**Task Force**"), a local government office at the Republic of the Philippines, with office address at the Quezon City Hall, Kalayaan Avenue, Quezon City (herein represented by its Chief Operating Officer, **FREDERIKA C. RENTOY**) and
- 2) **TRANSTAR Corporation** (hereinafter referred to as the "**Contractor**"), a private corporation engaged in garbage hauling services, with office address at Sumulong Highway, Antipolo, (herein represented by its Vice President, **MANUEL DE DIOS**) on the one part and
- 3) **JAPAN INTERNATIONAL COOPERATION AGENCY MASTERPLAN STUDY FOR SOLID WASTE MANAGEMENT FOR METRO MANILA** (hereinafter referred to as "**JICA, Study Team**"), an international organization with office address at MMDA Bldg., Orense St., Makati, Metro Manila
- 4) The Batasan Hills Barangay (Kalayaan B) Government, (herein referred to as the Barangay) represented by its duly elected Barangay Captain, Hon. Manuel Laxina, and
- 5) Residents of Kalayaan B, Barangay Batasan Hills, (herein referred to as the "**Residents**") represented by Jose Guerrero.

Whereas, waste management has always been a problem for most cities and municipalities in Metro Manila, including Quezon City, with its more than two (2) million population generating an average of 1,500 tons of garbage per day;

Whereas, it is a fact that as the population and economic activities of the City grow, the problem on solid wastes also grows as that it is imperative for the City to set as one of its highest priorities the improvement of waste collection and disposal to enhance the quality of life of the citizenry;

Whereas, the City, in its desire to carry out an environmentally sound and cost efficient solid waste management program, is tapping all sectors to participate in the over-all Solid Waste Management Program of the City, including the community;

Whereas, despite efforts to attain a 100% efficiency in garbage collection, there are areas in the City which are inaccessible making garbage collection impossible.

Whereas, JICA, has signified its intention to collaborate effectively with the City's drive for a clean and healthy environment, thru the implementation of a pilot project on the improvement of Garbage Collection System in an inaccessible area in the City;

Whereas, said project shall require the full support and cooperation of the City, the private contractor, the barangay and the community in order to carry out said project. In view of this, all parties agreed that specific roles and responsibilities of all concerned shall be drawn up and shall be the basis for implementing this joint project.

Now therefore: For and In Consideration of the foregoing premises and of the following covenants; all parties hereby stipulate to undertake a joint project which will entail the following:

## **I. OBJECTIVES**

- 1.1 Establish a regular collection schedule for the contractor and primary collector.**
- 1.2 Introduce a primary collection system by the use of pushcarts.**
- 1.3 Install communal discharge point (s).**
- 1.4 Establish a collection service fee for the primary collectors.**
- 1.5 Establish responsibilities of stakeholders.**

## **II. PLAN FRAMEWORK**

- 1.1 The action plan is based on the result of the focussed group discussion and further consultations.**
- 1.2 It will commence with a "General Cleaning Day" that will be participated by the residents.**
- 1.3 The pilot project will be implemented for a period of \_\_\_\_\_ months. It shall be monitored and implemented.**

### **III. COMPONENTS**

#### **1. Discharge by Household**

Frequency : MWF  
Time : 7:00 - 9:00 a.m.  
Place : front of premises  
Container : plastic bag, sack, etc.

#### **2. Collection by primary collectors**

Frequency : once daily  
Time : 7:00 - 9:00 a.m.  
Collection System : door-to-door (curb side coll.)  
Collection route : inaccessible streets in the area  
each collector covers a specific area  
Discharge points : Communal Storage  
Equipment : Pushcart, stick broom, shovel

#### **3. Communal Storage : Size Material: Steel gates (lockable) Place: \_\_\_\_\_**

#### **4. Collection by Local Government**

Frequency : daily  
Time : 10:00 a.m.  
Collection : point collection, stationary  
Place : Communal Storage  
Along kalayaan B St.

#### **5. Institutional System**

Collection Service Fee : P1.00 - P3.00/ day Voluntary  
Barangay Truck  
Quezon City

#### **6. Responsibilities/Accountabilities**



## **6.1 Residents**

- \* Store and discharge waste according to collection schedule.**
- \* Keep premises clean at all times.**
- \* Voluntarily give P1.00 - P3.00 to the primary collector**
- \* Participate in the "Clean -up Day" that will kick-off implementation of the pilot project**

## **6.2 Barangay Officials**

- \* Appoint five (5) primary collectors and issue identification card.**
- \* Pay the five (5) primary collectors on a monthly basis.**
- \* Prepare contract with primary collectors defining responsibilities.**
- \* Inform all the residents of the household waste discharge method, frequency, and time.**
- \* Encourage the residents to give the primary collectors "financial tokens" each time their household waste are collected.**
- \* Decide the management system of pushcart and communal discharge points. (responsible person, maintenance, repair, inspection, proper use). This should be contained in the contract.**
- \* Secure the acceptance of the residents living near the communal discharge points.**
- \* Monitor the implementation of the new collection system.**
- \* Support the "Clean -up Day" activity and ensure participation of all residents.**
- \* Enforce existing ordinances on anti-littering (MMDA regulations 96-009) and others that affect collection system, i.e. traffic rules**

### **6.3 Primary Collector**

- \* Provide a reliable collection work on schedule, adequate coverage of route, proper handling of collected waste.**
- \* Operate and maintain pushcarts and discharge points: maintain cleanliness of equipment/storage facility and avoid having them stolen/vandalized.**
- \* Use pushcart for garbage collection only.**
- \* Look clean (wear ID and handgloves) and behave well (dont demand payment) during worktime.**

### **6.4 Residents Nearby Communal Storage**

- \* Accept installation of facility**
- \* Monitor cleanliness, maintenance of facility**
- \* Report to Bgy. Officials mismanagement of facility**

### **6.5 LGU (Task Force Clean and Green)**

- \* Dedicate a collection truck for the pilot area.**
- \* Provide regular collection service. Keep schedule.**
- \* Maintain road-worthliness and cleanliness of truck.**
- \* Provide necessary paraphernalia of truck (if open dumptruck, include tail-gate and garbabe cover)**
- \* Support the "Clean-up Day" by providing equipment (stick broom and garbage bags: snack/drinks), and sending staff to participate**

### **6.6 Contractor**

- \* Provide regular collection service. Keep schedule.**
- \* Participate in the "Clean-up Day"**
- \* Maintain road-worthliness and cleanliness of truck.**
- \* Provide necessary paraphernalia of truck (if open dumptruck, include tail-gate and garbage cover)**

### **6.7 MMDA provide fifteen (15) river aides personnel and equipment to clean the esteros on "Clean-up Day"**

- \* Spearhead the "Clean-up Day" with the JICA and the Barangay officials coordinate the program.

#### 6.8 JICA

- \* Provide five (5) units of pushcart
- \* Install 1 communal storage facility
- \* Supervise and monitor the entire pilot project.

#### 7.0 CONFORME OF BARANGAY OFFICIALS, MMDA, JICA, LEONEL, LOCAL GOVERNMENT (Pag-sang-ayon ng mga kinauukulan)

	NAME	POSITION	SIGNATURE
1.	MR. MANUEL LAXINA	Barangay Chairman	_____
2.	MR. ROGELIO U. URANZA	Head, IPDG-SWMO	_____
3.	MR. KOJI KUSUNOKI	JICA EXPERT	_____
4.	MR. MANUEL DE DIOS	TRANS-TAR	_____
5.	MS. FREDERIKA RENTOY	Chief, Oper. Offr Task Force Clean and Green	_____

## **PILOT COLLECTION PROJECT IN BYG. BAYAN-BAYAN, MALABON METRO MANILA**

### **CHRONOLOGY OF ACTIVITIES**

- February 10** - Initial Meeting/ Area Visit  
(MMDA-Elsie, Raqui, Connie, LGU-Ditas,  
JICA-Kusunoki)  
- gathered data base for planning  
- discuss project concept and objectives  
- arrange tentative schedule of succeeding meetings/  
activities.
- February 21** - MMDA-JICA conducted a Focused Group Discussion  
Workshop with residents
- February 25** - Mr. Kusunoki, Ms. Raqui and Ms.Junku discussed with  
Bgy. Chairman the following:
- a) Salary of garbage collector
    - The chairman agreed on the amount of P0.35 a day  
or P10.00 per month per household as payment for  
each of the five (5) garbage collectors.
  - b) Collection : LGU and Garbage Collector
    - LGU : not yet finalized
    - Primary Collector : 7:00 a.m. - 9:00 am.
  - c) Communal Storage
    - The temporary dumpsite/staging area at Gen Luna  
St. is a private land owned by Meralco, thus, the  
chairman does not want a permanent concrete bed

for the communal storage, Instead, he wants a moveable one made of iron & steel. :

Note temporary dumpsite at Gen. Luna St. is a private land , owned by Meralco.

- The chairman suggested JICA-MMDA-LGU discuss about the communal storage with Councilor Ejercito Aquino because Coun. Aquino is responsible in issuing permit regarding the construction of a temporary dumping area at Gen. Luna St.

**March 2** : (Mr. Kusunoki, Raqui, Vilma-LGU, Mr. Brown)

- \* Coordination with the Councilor Ejercito Aquino regarding the communal storage .
- \* It was agreed that the communal bay will be placed along Gen. Luna St. and it should be a movable one and made of iron & steel.

**March 9, 1998** (Raqui)

1. Preparation for the clean-up day
2. Agreement reached:
  - Specific area assignment of the primary collectors prepared.
  - Collection of time primary collectors is 7:00 a.m. to 9:00 a.m.
  - Truck collection from the communal bay is from 10:00 a.m. to 12:00 noon.
  - Further discussion on collection fee is to be set.  
Suggested collection fee : P0.35/day or P10.00/month
3. Signing of the Action Plan

- Bgy. Chairman signed the action plan.
  - Mr. Lumanog signed the plan.
  - Councilor Ejercito Aquino signed the plan
- 4. Attendance for the Clean-up day by the Mayor, Mr. Lumanog and the ten (10) street sweeper is confirmed.
- 5. Two (2) collector trucks will be sent by the office of the Mayor.

**March 12** - Clean-up Day (See attachment)

**March 17**

**OBSERVATIONS/FINDINGS AFTER THE CLEAN-UP DAY (Mr. Kusunoki, Raqui)**

1. Ocular Inspection of the communal storage on March 17, 1998.
2. Structural defects found in the movable communal bay:  
It was constructed with slits, thus allowing the unpacked garbage to fall out.
3. Repair of the communal storage will be carried out by the contractor in three (3) days under the supervision of Bgy. Chairman Clemente.
4. The schedule of LGU collectors is not being followed.  
Fixed schedule is 10:00 a.m. - 12:00 noon  
Actual collection is from 4:00 a.m and 7:30 a.m.
5. Two trips (for collection/haulage) were made for the day.
6. Mr. Lumanog promised to follow the fixed schedule of collection.
7. Request to keep the communal bay clean made with the barangay. chairman and the primary collectors.
8. The communal bay is also being used by some of the residents of bgy. Flores.
9. FeedBack from residents regarding the pilot project:
  - Some are in favor of the new system;
  - Some are already paying P2.00 -P3.00 pesos to the primary collector;

- Some promise to keep their premises clean and to hold a general clean up day every Saturday or Sunday.

10 MMDA-JICA T-shirts, bells and hand gloves were distributed to the primary collector by Mr. Kusunoki.



**ACTIVITIES UNDERTAKEN IN THE GENERAL CLEAN-UP**  
**MARCH 12, 1998, 8:00 A.M. 1:00 P.M.**  
**BARANGAY BAYAN-BAYANAN, MUNICIPALITY OF MALABON**

- I. The General Clean up Day was intended to launch the Pilot Project. The Launching program was attended by some residents, LGU, Officials, Bgy. Officials, JICA-MMDA Study Team led by Mr.Kusunoki. It was highlighted by the keynote speech of Hon. Vicencio, Municipal Mayor.

A Ribbon-cutting ceremony for the five (5) push carts to "kick-off" the project was done by Malabon's First Couple.

2. Assignment of areas of responsibilities for the clean-up was distributed to officials MMDA JICA Study Team, Bgy. Officials, Primary Collector, LGU Street Sweepers and MMDA River-Aides.

**Area Assignment :**

Street Covered	MMDA	LGU St. Sweeper	BGY. Official	JICA	PUSH CART
E. Rodriguez Celia 2	Rachel S. Connie A. Helen A.	Carmen H. Felina D. Marife L. Arnulfo M.	Boy Lucas		Hernando B.
Celia I St.	Raqui L.	Gertudes G Romullo M	Devy Elsa		Leopoldo A.
Katipunan St.		Susan A. Zenaida D.	Ariel Rey	Kusunoki Bystrom Anai Urushibata	Reynaldo T. Ricardo D.
Liwayway St.	Elsie E.	Violeta D. Evangeline	Guillermo SK	Junku	Ernesto E.
Fishpond area/ Underwater house side of dampalit river		40 MMDA River ways was assigned , 10 persons per Area.			

3. Conduct of General Cleaning

- \* Arrival at assigned streets
- \* Public information about the activity/project
- \* Distribution of T-shirt, stickers and sacks to the residents who participated in the activity.
- \* Sweeping of alleys, unclogging of drains, removal of accumulated dry waste from “under houses”
- \* Collection of sweeping/garbage piles from the streets and creek by the Primary Collector and volunteer residents using the push carts.
- \* Hauling of the collected garbage in the pushcarts to the communal bay in Gen. Luna St. (some 80 sacks/bag of garbage collected to 2 truck of 10 wheeler dumptucks)

4. Transfer of collected garbage from the communal bay to the collection truck provided by the local government of Malabon.
5. Hauling of garbage to disposal sites in the LGU operated collection truck in two-trips.
6. Site inspection of the streets
7. Lunch provided by JICA Study Team

## **PILOT COLLECTION PROJECT IN BARANGAY 182, ZONE 16, TONDO, MANILA**

### **CHRONOLOGY OF ACTIVITIES**

January 26, 1998

- \* Initial Meeting/Site Visit (Mr. Kusunoki, Raqui, Connie)
  - gathered data base for planning
  - discuss project concept and objectives
  - arrange tentative schedule of succeeding meetings/activities

February 10, 1998

- \* Meeting with Mr. Ocampo at City Hall
- \* Meeting with Chairman Unamayor regarding the Workshop; on February 13, 1998
- \* Asked the Chairman to involve 35 residents in the workshop : 2 representatives from each street.

February 12, 1998

- \* Follow-up

February 13, 1998

- \* Schedule of Focused Group Discussion/Workshop

February 25, 1998

- \* Meeting with Mr. Kusunoki, MR. Ocampo, Mr. Sammy Brown and Mr Mansilungan of Leonel Management at the DPS office, City Hall

to discussed the concept contents, of and the requirements of the Project.

- \* Meeting with Mr. Kusunoki, MR. Unamayor and Mr. Brown at Bgy. 182. Discussed the concept and contents, of the Proj. : storage and discharge by households, collection by primary collectors, the date, time, collection route, discharge points, structure of collection bay/equipment including the role of the residents, barangay, primary collector, LGU, Contractor, MMDA & JICA.

March 3, 1998

- \* Mr. Kusunoki and Raqui meet with Bgy. Officials.  
The Bgy Secretary said they will have a meeting together with residents, schedule on March 4,1998 to discuss and possibly agree on the following:
  - Fee for the Garbage Collectors
  - Acceptance of the Collection bay

March 4, 1998

- \* Meeting with Mr. Ocampo & Mr. Kusunoki at City Hall, Mr. Unamayor & Mr. Celso Inobaya-Bgy. Secretary at Bgy. 182.
  - Discussed the location of the communal facility, the collection of the primary collectors, the frequency of collection, the time, collection system, collection route, equipment, collection points.
  - Residents nearby the proposed site of collection bay expressed disagreement over the construction of the facility.

March 5, 1998

- \* Meeting with Mr. Kusunoki, Mr. Unamayor, MR. Ocampo, Rachel

- Discussed again about the location of the communal facility and acceptance of the nearby residents .
- The Chairman agreed on the construction of concrete bed despite disagreement of residents.

March 6, 1998

- \* Meeting with Mr. Unamayor, Mr. Kusunoki and the Woodfield Consultancy Inc. staff to construct the concrete bed.

March 7, 1998

- \* Materials for the construction has been delivered but construction could not start because the residents complained.

March 9, 1998

- \* Meeting with MR. Kusunoki, Elsie and the residents nearby the proposed site for collection bay.
  - Elsie conducted meeting to get consensus about location of collection bay, 40 residents attended the meeting on the street.
  - Residents firmly disagreed about the construction of collection bay.
  - Three (3) other sites for collection points identified.
  - Primary collectors were identified, collection route firmed-up

March 10, 1998

- \* General Clean-up Day (pls see attachment)

**March 18, 1998 FINDINGS/OBSERVATIONS MADE AFTER  
CLEAN-UP DAY**

1. Some residents living near the collection point in Hermosa Extension are not in favor of the arrangement.
2. Mr. Kusunoki decided to use another area near Estero de Sunog Apog as the collection point.
3. Complaints on non-availability of collection trucks as scheduled were also heard for the residents in Estero de Sunog Apog.
4. A request for a movable container was made by the Bgy. Kagawad.
5. Because of obstruction such as illegally-parked vehicles the push cart cannot pass thru the small streets in the area.
6. The primary collectors made 2 - 3 trips in one day collecting garbage from their areas of assignment.
7. To avoid loose garbage, the primary collectors are requesting that plastic bag/sacks be provided to the residents.
8. Collection by the primary collectors is completed at 9:00 a.m.
9. The primary collector are complaining about the weight of the push cart.
10. The primary collectors have to wait for the arrival of the collection truck;
11. The primary collectors also sweep their area of assignment and can collect garbage that can fill up two (2) sacks. (It has been agreed that sweeping is the responsibility of the residents).

12. On the initial day of implementation, one of the 5 primary collectors received voluntary contribution of P80.00

**ACTIVITIES DURING THE CLEAN UP DAY**

**March 10, 1998, 8:00 a.m. - 1:00 pm.**

**BARANGAY 182, ZONE 16, TONDO MANILA**

1. The project was launched by the MMDA-JICA, Bgy. Officials in a program attended by JICA Study Team, MMDA Officials, personnel from DPS-Mla., MMDA-Riveraide, representative from Leonel, (3) primary Collectors, Bgy. Chairman and other officials together with many of the residents.
2. The general cleaning started after the program at 9:30 a.m.
3. T-shirts, stickers, plastic bags, shovels and brooms were provided by JICA to the participants.
4. The participants proceeded to their areas of assignment.
5. The clean up activity started by sweeping, collecting and hauling the garbage to the pushcarts operated by the primary collector.
6. Public information, and dissemination campaign were conducted simultaneously, while the clean-up is on-going.
7. Some of the residents participated in the clean up of the area.
8. Site inspection of the area was conducted.
9. Lunch was provided by JICA Study Team, Leonel and Mr. Uranza Merienda was provided by Transtar Contractor

## **PILOT PROJECT COLLECTION IN BGY. COMMOWEALTH KALAYAN B & C, QUEZON CITY**

### **CHRONOLOGY OF ACTIVITIES**

February 3, 1998

- \* Initial meeting with bgy. official with the help of the LGU Official (F. Rentoy and site inspection Bgy. Batasan Hills and Bgy. Old Balara.(Mr. Kusunoki, C.Leite, Rachel, Rentoy, Estipona, Bgy. Chairman, Manuel Laxina)
  - Met some purok leaders in the area.
  - gathered data base for planning
  - discuss project concept and objectives
  - arrange tentative schedule of succeeding meetings/activities

February 5, 1998

- \* Bgy. Batasan Hills

February 13, 1998

- \* Kalayaan B & C site inspection together with the 3 surveyors of Woodfields Consultants. Kusunoki will decide what area will be included in the pilot project. After Q.C. went to Malabon (Bgy. Captain) to introduce also the 3 surveyors and check the available space/area for coming workshop.

February 19, 1998

- \* Focused Group Discussion/Workshop



February 26, 1998

- \* JICA ( K. Kusunoki) decided that Kalayaan B only will be the pilot area. Went to techies office-LGU regarding pilot selection and asked her to prepare an agreement (MOA)from Q.C. Lgu accepting their responsibilities with regards the Pilot Project.
- \* Site inspection along Kalayaan B for the propose communal bay

March 2, 1998

- \* Ms. Tetchie Rentoy confirmed that Mayor Mathay will attend the Clean-up day. Prepared Program with Ms. Rentoy

March 3, 1998

- \* Followed-up MOA with Ms. Rentoy

March 4, 1998

- \* Ms. Rentoy signed MOA (QC Task Force C & G Office).
- \* Chairman Laxina signed MOA at BOC Office, QC City Hall,

March 5, 1998

- \* Met with Ms. Rentoy (C & G Office) and Chairman Laxina (Bgy. Office) to finalize arrangement about the General Clean-up Day scheduled on March 11, 1998.

March 6, 1998

- \* Accompanied Francis of Woodfields to the selected site for communal bay.
- \* Arranged meeting of Capt. Laxina. Francis and Kusunoki on Sunday morning thru telephone.

March 8, 1998

- \* Chairman Laxina, Francis (Woodfileds) and Mr. Kusunoki met to discuss construction of collection bay.

March 9, 1998

- \* Delivered invitation/programme (for the clean-up day) to Dr. Gamboa at Capt. Laxina's office.

March 11, 1998

- \* Clean up day  
Visitors :  
Mayor Mel Mathay, Councilor Connie Angeles, Mr. Manuel de Dios-Vice President. Transtar, Dir. Rogelio Uianza, Mr. Gilbert Advincula, Ms. Tetchie Rentoy, Ms. Aida, Ms. Junku, Mr. Anai, MMDA Counterpart and Engr. Estipona. (see attachment)

March 12, 1998

- \* We went to Batasan Hills to check if the movable container was delivered. It was not.
- \* Waited for Dr. Medina at the steel factory along commonwealth. Went to the factory (waited for Dr. Medina) regarding the moveable container.

March 13, 1998

- \* Checked wether big container was delivered. It was not delivered
- \* Met Dr. Gamboa and 5 primary collectors regarding collectors route. Dr. Gamboa provided us with updated map of Kalayaan B. Bgy. Batasan Hills.
- \* Followed-up collectors' ID at Capt. Laxina's office

**March 16, 1998      FINDINGS/OBSERVATION MADE AFTER  
CLEAN-UP**

1. The big movable container is not yet delivered by Woodfields consultants;
2. No collection was made March 13, 14, 15, 1998 as agreed by Dr. Gamboa and the five (5) primary collectors. Proper arrangements on route assignments were finalized March 13, 1998;
3. This resulted in an increase of garbage to be collected by the primary collectors;
4. The small movable container, which is placed at the IBP road, can accommodate three (3) pushcart loads of garbage only;
5. The fixed communal bay has reached its full capacity already;
6. As a result, garbage pile-up is observed scattered around the small movable container and the fixed communal bay;
7. Transtar, the private contractor assigned in the area, sent a 5M3 dumptruck at 10:30 am, March 16, 1998. The private contractor made three (3) round trips collecting garbage, the capacity of which is equivalent to two (2) trucks from fixed communal bay and one (1) truck from IBP road;
8. The barangay-owned dumptruck (5m3 capacity) also hauled garbage from the communal bay to Payatas and made one (1) trip in the process;
9. The five (5) primary collectors completed their task after 10 a.m.
10. They are complaining about the weight of the push carts;

11. The hand gloves were not worn by the primary collectors;
12. Plastic container were not used by some of the residents to store their garbage;
13. Bulky wastes such as big drums were received from the residents by the primary collectors ;
14. The primary collectors were given money by some of the residents and;
15. Dr. Elias Gambao supervised the collection activities of the primary collectors.

March 17 : Delivered the movable collection bays.

**ACTIVITIES DURING THE CLEAN-UP DAY**  
**MARCH 11, 1998, 8:00 A.M. - 2:00 PM**  
**BARANGAY BATASAN HILLS, KALAYAAN, QUEZON CITY**

1. The General Clean-up in Quezon City, Barangay Batasan Hills, Kalayaan B, started as early as 7:00 a.m. in the morning when the LGU's street sweepers started sweeping the area.
2. The project was launched in the program graced by Mayor Ismael Mathay, Jr. and Councilor Connie Angeles, Bgy. Officials, Bgy. Staff, JICA/MMDA Study Team, MMDA Officials, MMDA Riveraide, LGU Officials, LGU's Street sweepers LGU's enforcers, and residents.
3. The clean-up day was started by Mayor Mathay and Councilor Angeles when they throw the first plastic bag of garbage to the pushcarts.
4. The participants proceeded to their respective areas of assignment. Two Purok leaders were assigned in every corner to monitor the operations.
5. The five (5) primary collectors made three (3) trips each in collecting and hauling the garbage from the household using the push carts to the three (3) collection trucks provided by Transtar, Barangay and LGU.
6. The communal bay was not used during the clean-up day.
7. T-shirts, sacks, brooms were provided to the participants/residents.
8. Lunch provided by JICA study team.

METROPOLITAN MANILA DEVELOPMENT AUTHORITY  
AND  
JAPAN INTERNATIONAL COOPERATION AGENCY

FOCUSED GROUP DISCUSSION ON  
IMPROVEMENT FOR COLLECTION SYSTEM  
(Pilot Project)

BARANGAY BAYAN-BAYANAN  
MUNICIPALITY OF MALABON  
February 21, 1998

8:30 - 9:00 REGISTRATION

9:00 - 9:30 Opening/Welcome Remarks

- a. Mr. Clemente Felix - Bgy. Chairman
- b. Dir. Rogelio Uianza - MMDA
- c. Mr. K.Kusunoki - JICA
- d. Ms. D. de Galicia - LGU

9:30 - 9:45 INTRODUCTION

- a. Purpose of Workshop
- b. Introduction of Participants  
(MMDA/Bgy.)

9:45 - 11:30 WORKSHOP  
(Identification of Issues, SWM Concerns, Options and Alternatives)

11:30 - 12:30 ..... LUNCH BREAK .....

12:30 - 2:00 WORKSHOP (Stakeholders Analysis)

2:00 - 2:30 SUMMARY AND AGREEMENTS

2:30 .....B R E A K .....

Moderator : ELSIE I. ENCARNACION - MMDA

METROPOLITAN MANILA DEVELOPMENT AUTHORITY  
AND  
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FOCUSED GROUP DISCUSSION ON  
IMPROVEMENT FOR COLLECTION SYSTEM  
(Pilot Project)

BARANGAY BAYAN-BAYANAN  
MUNICIPALITY OF MALABON  
February 21, 1998

- 8:30 - 9:00 REGISTRATION
- 9:00 - 9:10 National Anthem
- 9:10 - 9:30 Opening/Welcome Remarks
- a. Mr. Manuel Laxina - Bgy. Chairman
  - b. Dir. Rogelio Uianza - MMDA
  - c. Mr. K. Kusunoki - JICA
  - d. Ms. Techie Rentory - Chief, Operation Officer  
Task Force Clean & Green
- 9:30 - 9:45 INTRODUCTION
- a. Purpose of Workshop
  - b. Introduction of Participants (MMDA/Bgy.)
- 9:45 - 10:00 .....BREAK.....
- 10:00 - 12:00 WORKSHOP  
(Identification of SWM Issues, and Concerns, Options and Alternatives)
- 12:00 - 1:30 .....LUNCH BREAK.....
- 1:30 - 3:00 WORKSHOP (Stakeholder's Analysis)
- 3:00 - 3:15 .....BREAK.....
- 3:15 - 3:30 SUMMARY AND AGREEMENTS
- 3:30 - 3:45 CLOSING REMARKS
- Mr. K. Kusunoki  
Mr. F. Rentoy
- Moderator : ELSIE L. ENCARNACION - MMDA

8:30 - 9:00 REGISTRATION

9:00 - 9:10 National Anthem

9:10 - 9:30 Opening/Welcome Remarks

a. Mr. D. Una Mayor - Bgy. Chairman  
b. Dir. Rogelio Uianza - MMDA  
c. Mr. K. Kuzunoki - JICA  
d. Mr. D. Manimbo - LGU

9:30 - 9:45 INTRODUCTION

a. Purpose of Workshop  
b. Introduction of Participants (MMDA/Bgy.)

9:45 - 10:00 .....BREAK.....

10:00 - 12:00 WORKSHOP  
(Identification of Issues, SWM Concerns, Options and Alternatives)

12:00 - 1:30 .....LUNCH BREAK.....

1:30 - 3:00 WORKSHOP

3:00 - 3:15 .....BREAK.....

3:15 - 3:30 SUMMARY AND AGREEMENTS

Moderator : ELSIE I. ENCARNACION - MMDA



1. **PROFILE**
2. **FOCUSED GROUP DISCUSSION**
3. **ACTION PLAN**
4. **CLEAN-UP DAY**
5. **CHRONOLOGY ACTIVITIES**

## PROFILES OF SELECTED SITES

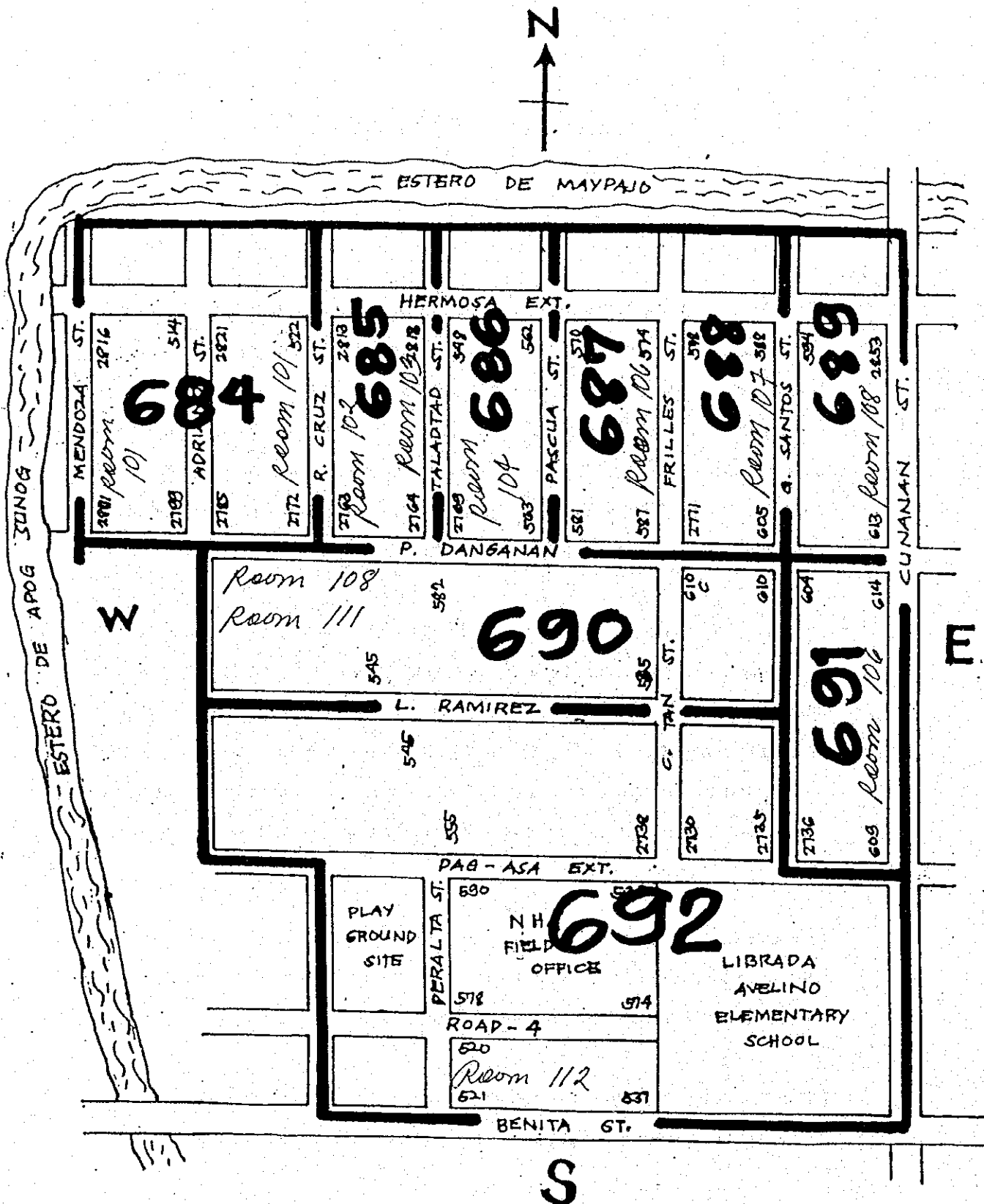
### ***BARANGAY 182, ZONE 16, TONDO, MANILA***

Barangay 182 is situated northwestern side of the City of Manila. It is bounded on the North by the Estero de Maypajo; on the West by Estero de Apog Sunog; on the South by Benita St. and East by Cunanan St. Street pattern is regularly rectangular. It has 6 main streets which are passable by 5 cu.m. compactor collection trucks and 10 other smaller/narrower streets that are inaccessible by same collection truck. The sides of the esteros are newly paved with approximately 3 meters wide concrete roads and installed with steel railing.

Barangay 182 has an estimated area of 3 has which is owned by National Housing Authority which is a national agency. It has a population of 10,000 residents, approximately 1,000 households. The area is a low income residential settlement and highly congested. Building structures vary from single to row-houses, Barong-barong houses are predominate nearby the esteros. There is proliferation of sari-sari stores. Boiling of corn-in the cob (for vending on pushcart) nearby the esteros is a common business activity.

Inaccessibility of narrow streets is aggravated by presence of parked vehicles, bathing and laundry activity; encroachment by sari-sari stores to the streets (on the covered drains & canals) and dumping of unusable furniture etc.

During the site visit, general level of cleanliness in the are was unsatisfactory. There were illegal dumps along the main roads and litters in the inner streets.



BARANGAY - 182

**METROPOLITAN MANILA DEVELOPMENT AUTHORITY  
AND  
JAPAN INTERNATIONAL COOPERATION AGENCY**

**FOCUSED GROUP DISCUSSION ON  
IMPROVEMENT FOR COLLECTION SYSTEM  
(Pilot Project)**

**BARANGAY 182, ZONE 16  
TONDO, MANILA  
February 13, 1998**

**8:30 - 9:00 REGISTRATION**

**9:00 - 9:10 National Anthem**

**9:10 - 9:30 Opening/Welcome Remarks**

- |    |                            |   |               |
|----|----------------------------|---|---------------|
| a. | <i>Mr. D. Una Mayor</i>    | - | Bgy. Chairman |
| b. | <i>Dir. Rogello Uianza</i> | - | MMDA          |
| c. | <i>Mr. K. Kuzunoki</i>     | - | JICA          |
| d. | <i>Mr. D. Manimbo</i>      | - | LGU           |

**9:30 - 9:45 INTRODUCTION**

- |    |   |
|----|---|
| a. | <i>Purpose of Workshop</i>                          |
| b. | <i>Introduction of Participants<br/>(MMDA/Bgy.)</i> |

**9:45 - 10:00 ..... BREAK.....**

**10:00 - 12:00 WORKSHOP  
(Identification of Issues, SWM Concerns,  
Options and Alternatives)**

**12:00 - 1:30 ..... LUNCH BREAK.....**

**1:30 - 3:00 WORKSHOP**

**3:00 - 3:15 ..... BREAK.....**

**3:15 - 3:30 SUMMARY AND AGREEMENTS**

**Moderator : ELSIE I. ENCARNACION - MMDA**

## FOCUSED GROUP DISCUSSIONS IN THE PILOT SITES

Bgy. 182, Zone 16, Manila City

Venue : Basketball Court, Peralta St, cor. Pag-asa Ext.

Date : February 13, 1998

### Attendance:

Forty-four participants attended the FGD composed of more males (59%). More than half of the participants were barangay officials (24). Six teachers and one nurse represented the community elementary school. The 4 street sweepers of the community have participated and two officers of Public Services of Manila have attended. The garbage collection contractor of Manila (LEONEL) sent a representative.

### Breakdown of Participants:

a. Barangay Officials	-	24
b. Teacher	-	6
c. St. Sweeper	-	4
d. Housewife	-	3
e. Resident	-	2
f. School Nurse	-	1
g. OIC, Admin (LGU)	-	1
h. Gov't employee	-	1
i. Contractor Rep.	-	1
j. Electrician	-	1
		====
		44

### Members WMS Master Plan Study:

#### MMDA

1. Elsie Encarnacion
2. Connie Astorga
3. Rachel Sangalang
4. Raquel Lometillo

#### JICA

1. Mr. Kusunoki
2. Mr. Zusuki
3. Mr. Costa-Leite
4. Mr. Urushibata
5. Mr. Yamada

### Concerns and Issues Raised by Participants:

- \* The main concern of the participants is the irregularity of collection schedule: no fixed day, no fixed time. Although the contractor claims that it goes to the barangay on a daily basis, residents say that the truck is almost half-full when it arrives on the main streets. Thus, residents are forced to leave their bags of garbage on the street corners.
- \* The irregular schedule of the collection trucks is aggravated by the unavailability of the container bins or communal storage on the main road at the end of the narrow streets. Primary collectors (push cart boys/street sweepers or any willing boy) who are paid to take the garbage to the truck also dump the garbage anywhere when the truck is already full.
- \* Because the truck arrives irregularly or already half-full, residents feel that there is not enough trucks.
- \* There is not enough push cart to collect from inaccessible streets.
- \* Obstruction (illegal parking etc.) on the streets aggravate inaccessibility.
- \* There is lack of cooperation from the community. Many household do not practice "Tapat mo, Lines mo" (Clean your own front yard).
- \* Many people simply do not know proper way of garbage disposal. Some end up throwing their garbage at the esteros.
- \* Dog droppings on the streets are smelly and attract flies.

### Suggested Solutions:

#### a. *Waste Discharge*

- \* Garbage should be properly bagged before it is taken out of house for collection.
- \* Garbage should only be put out when the truck or primary collector arrives.

#### b. *Waste Collection and Storage*

- \* Collection should be done daily at a fixed time.

- \* Garbage container should be placed on the main street.
- \* There should be 6 push carts to access the narrow streets.

*c. Discipline*

Discipline should start from the higher authority down the barangay level and residents.

*d. Law Enforcement*

- \* Enforcement of traffic rules should be done to make the streets passable.
- \* Passage/enforcement of ordinances on::
  - manners of waste discharge
  - anti-littering
  - dog droppings (or waste)
  - regular schedule of waste collection
  - clean your own front yard

*e. Information Dissemination/Feedback System*

- \* Everybody should be informed of the garbage collection schedule.
- \* The garbage truck should blow its horn or ring bell to announce its arrival.
- \* Barangay officials should conduct an intensified drive on proper waste handling, proper drainage management as well as community cooperation.
- \* Problems should be reported to the Barangay Chairman and/or DPS tel. No. 527-49-67; 527-96-38.

**Visioning:**

Grouped into 4, the participants, based on the itemized solutions, expressed into drawings how they would like to see their community in the future in so far as solid waste management system is concerned. In a summarized form, the participants see a clean and green community where residents cooperatively maintain the cleanliness of their front yards, with enough number of push carts

collection from door to door, with strategically situated communal storage facility and a regular collection of the contractor.

#### **Stakeholder Analysis:**

The participants recognized that the residents have the greatest responsibility, followed by the Bgy. officials and the private contractor.

#### **Resident**

- \* Contain household waste in garbage bags and discharge only when collector/truck arrives.
- \* Maintain cleanliness by religiously doing the "Tapat Ko, Linis Ko".
- \* Teach other members of household proper ways of waste handling.
- \* Coordinate with Barangay Officials to keep updated with new ordinances, community rules and regulations.
- \* Give financial contributions to the primary collector voluntarily.

#### **Barangay Officials**

- \* Monitor the present collection activities, notify the residents on the availability of the garbage truck.
- \* Provide salary/allowance for pushcart operator.
- \* Enforce strictly of laws and ordinances regarding solid waste management.
- \* Inform the local government unit on the concerns/problems on solid waste management in the area.
- \* Officially accredit primary collectors. Issue ID card.
- \* Coordinate with the contractor about the need to provide more trucks for the collection of garbage.

#### **Pushcart Man**

- \* Collect garbage regularly.



- \* Always put the collected garbage on the proper storage.
- \* Wear ID while collecting garbage.

#### **LGU**

- \* Promote waste reduction to minimize garbage volume.
- \* Responsible for the collection of garbage.
- \* Monitor barangay activities.
- \* Support the project of MMDA-JICA on Pilot Collection Project.

#### **Garbage Contractor**

- \* Provide collection truck as stipulated in the contract.
- \* Collect the garbage regularly or as scheduled.
- \* Coordinate with the barangay officials.
- \* Provide cover for the collection truck.

#### **MMDA**

- \* Help implement pilot collection project.
- \* Develop plan on how to improve waste collection.
- \* Coordinate with the LGU and Barangay Officials on the progress of the project.
- \* Conduct workshop/seminars regarding solid waste.
- \* Provide manpower to assist in the general clean up of the barangay.

#### **JICA**

- \* Provide technical assistance.

**SK**

- \* Assists the barangay officials in implementing the laws and regulations on solid waste management.

**SUMMARY :**

There is need for pushcart to collect from inaccessible streets

- \* Use of pushcart for small street
- \* One container for wet garbage one container for dry at the end of each small street.
- \* Regular schedule of the assigned contractor
- \* Existing ordinances to be implemented.
- \* There is
  - P500.00/month from Barangay funds.
  - P1.00/plastic bag/collection
  - P2.00 to P5.00/family

**Action Plan (Agreement)**

**Launching Ceremony (*General Clean Up Day*)**

- Program
- Primary Collection Map

**WORKSHOP ON IMPROVEMENT FOR COLLECTION SYSTEM**  
**Barangay 182, Zone 16, Tondo Manila**  
**February 13, 1998, 8:30 a.m. - 3:30 p.m.**

NAME	ADDRESS	LIVELIHOOD
1. Virgilio, Francisco	2804 Taladtad St. Tondo, Mla.	Kagawad
2. Benjamin de Guzman	549 Hermosa St.	Streetsweeper
3. Danilo de Guia	565 Pag-asa st.	Streetsweeper
4. Emmanuel Esrome	555 Peralta St.	Tanod
5. Yolanda Evangelista	530 Rd. 4 St. Gagalangin	Treasurer
6. Danilo Unamayor	607 Pag-Asa Ext.	Bgy. Chairman
7. Celso Inobaya	2809 R. Cruz St.	Bgy. Secretary
8. Fortunato Borre	617 Hermosa St.	Bgy. Kagawad
9. Ernesto Garcia	2745 G. Santos	Street Sweeper
10. Rogelio Mercado	563 Pag-Asa Ext.	Lupon
11. Roberto Aledron	2801 P. Brenda St.	Lupon
12. Ana Garcia	522 Rd. 4 Gagalangin	Lupon
13. Pacita Maynigo	527 Rd. 4 Gagalangin	Lupon
14. Rosalie Alfaro	2818 Adriano St.	Housewife
15. Salomie Mactal	2774 R. Cruz St.	Bisig
16. Erlinda Sialongo	2795 Adriano ST.	Bisig
17. Victoria Ibasco	574 Rd. 4 Gagalangin	Lupon
18. Virgilio Gallardo	591 Hermosa St.	Kagawad
19. Milagros Gallardo	541 Hermosa St.	Lupon
20. Joeffrey Zapata	2735 Cton St.	Kagawad (SK)
21. Marlon Eusebio	575 Pag-asa St.	Kagawad (SK)
22. Elizabeth Noble	553 Pag-asa St.	Resident
23. Gregorio Ponseca	2741 G. Santos St.	Tanod
24. Sergio Abello	2799 Taladtad St.	Lupon
25. Reynaldo Adriano	M. Pascua St.	Tanod
26. Erning Nunag	614 J. Cunanan St.	Tanod
27. Saturnino Ponseca	2748 G. Santos St.	Resident
28. Nelso Ocampo	City Hall Manila	OIC Admin
29. Rosemari de Leon	City Hall, Manila	Govlt. Emplo
30. Melvin Contreras	C. Avelino Elem School	Teacher
31. Yolanda Dolerdo	-do-	School Nurse
32. Virginia Gallardo	-do-	Teacher
33. Virginia Tenorio	-do-	Principal

34. Remia Guevarra	-do-	Teacher
35. Louie Lomibao	Taladtad St.	Streetsweepers
36. Alberto Pablo	573 Ramires St.	Tanod
37. Marina Torriefel		Housewife
38. Edilberto Eusebio	P. Daganana	Tanod
39. Arnel Saenz		Tanod
40. Nida Alolod	L. Avelino Elem. School	Teacher
41. Merlita Lobin	-do-	Teacher
42. Renato Mansilungan	-do-	Zone Manager
43. Rodolfo Cavenero	Pag-asa Ext.	Electrician
44. Milette Vendua	Pag-asa Ext.	Housewife

#### **MMDA**

#### **JICA**

1. Elsie Encarnacion	Mr. Kusunoki
2. Rachel Sangalang	Mr. Urushibata
3. Connie Astorga	Mr. Zusuki
4. Raquel Lometillo	Mr. Yamada
	Mr. Costa-Leite